

Data Analysis for Drug Repurposing for Effective Alzheimer's Medicines – Tocilizumab vs Abatacept

NCT04529863

November 24, 2020

1. Comparison Details

a. Intended aim(s)

To evaluate the comparative risk of dementia onset between patients treated with tocilizumab versus abatacept for rheumatoid arthritis.

b. Primary endpoint

Incident dementia (i.e., Alzheimer's disease, vascular dementia, senile, presenile, or unspecified dementia, or dementia in other diseases classified elsewhere).

2. Person responsible for implementation of replication in Action

Mufaddal Mahesri

3. Data Source(s)

Medicare, 2007-2017

4. Study Design Diagrams

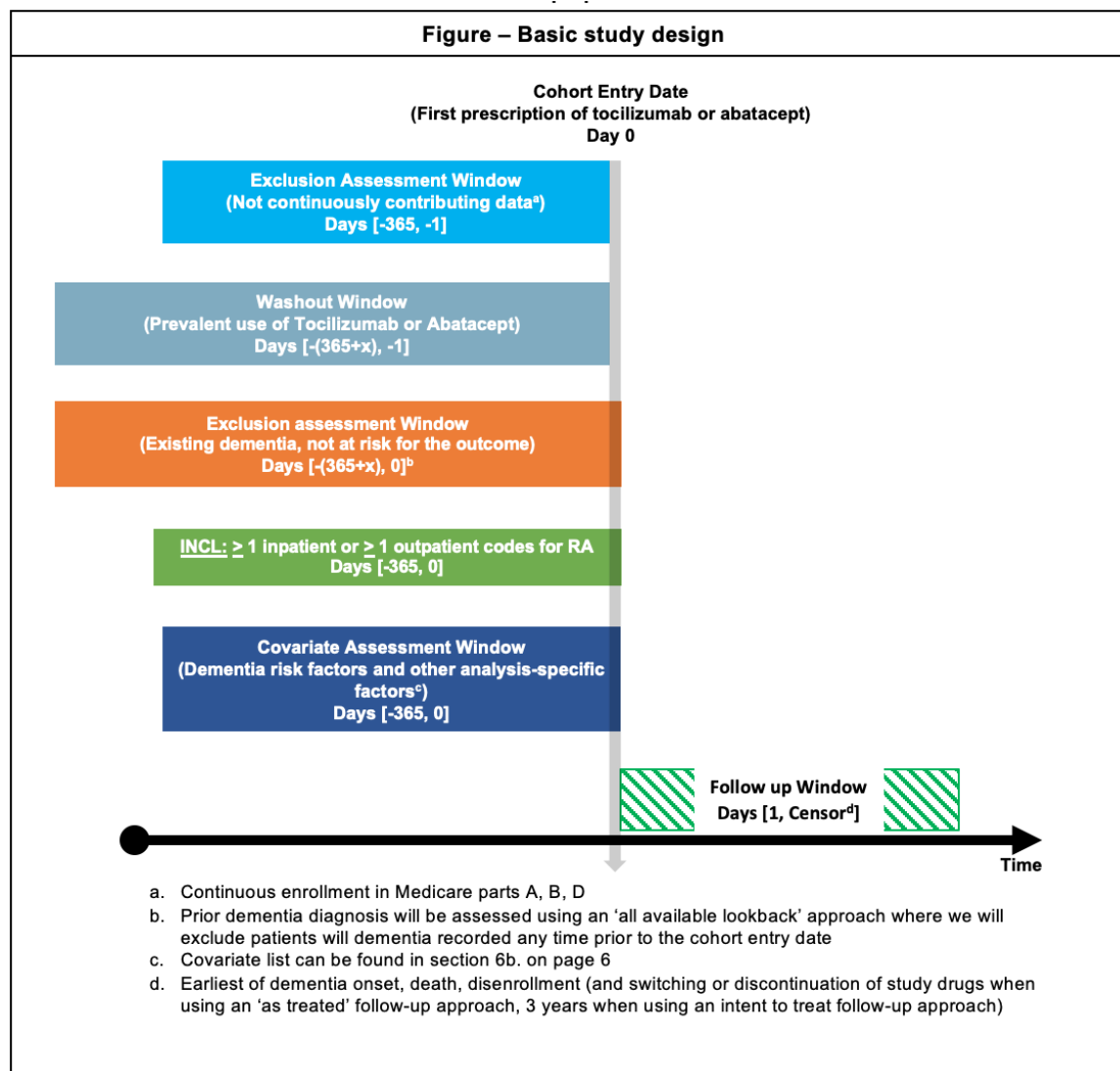
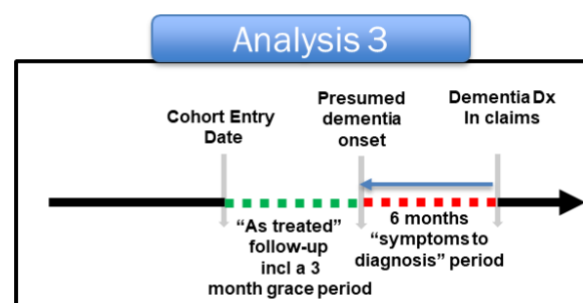
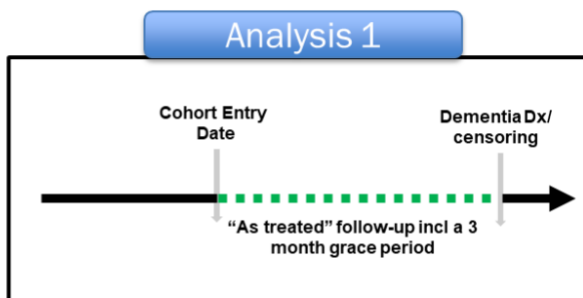


Figure- Alternate analysis approaches

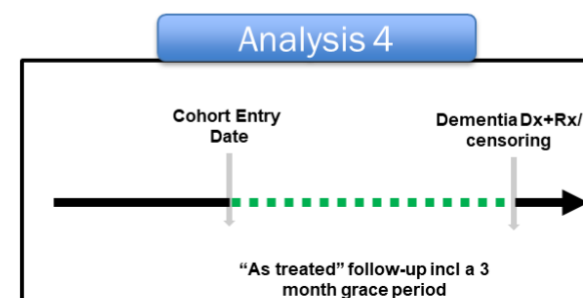
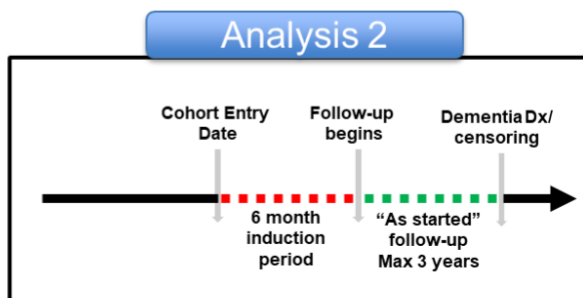
■ Included person-time
■ Excluded person-time

Provides 'on treatment' estimates for the outcome risk and addresses exposure person-time misclassification



Addresses misclassification of outcome onset

Addresses reverse causation due to preferential treatment initiation related to unrecorded cognitive impairment at study start and informative-censoring



Addresses outcome misclassification

5. Cohort Identification

a. Cohort Summary

This study will employ a new user, active comparator, observational cohort study design comparing tocilizumab to abatacept. The patients will be required to have continuous enrollment during the baseline period of 365 days before initiation of tocilizumab or abatacept (index date). Follow-up for the outcome (dementia) differs between analyses. Follow-up begins the day after drug initiation (analysis 1, 3, 4); 180 days after drug initiation (analysis 2).

b. Key details regarding cohort creation

Index date:

- Day of initiation of new tocilizumab or abatacept use

Inclusion criteria for analyses 1, 3, 4:

- 365 days enrollment in Medicare Parts A, B, and D with no HMO coverage prior to index date
- No use of tofacitinib or abatacept any time prior to index date (all available lookback approach with a minimum of 365 days)
- No diagnosis of dementia any time prior to and including index date
- At least one inpatient or one outpatient claim with rheumatoid arthritis diagnosis recorded in 365 days prior to and including index date
- No history of nursing home admission recorded in 365 days prior to and including index date

Inclusion criteria for analysis 2:

- 365 days enrollment in Medicare Parts A, B, and D with no HMO coverage prior to index date
- No use of tofacitinib or abatacept any time prior to index date (all available lookback approach with a minimum of 365 days)
- No diagnosis of dementia any time prior to and including index date
- At least one inpatient or one outpatient claim with rheumatoid arthritis diagnosis recorded in 365 days prior to and including index date
- 180-day continuous use of tofacitinib or abatacept starting on the index date
- No history of nursing home admission recorded in 365 days prior to and including index date

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c. Flowchart of the study cohort assembly

| | Less Excluded Patients | Remaining Patients |
|--|------------------------|--------------------|
| All patients | | 7,964,044 |
| Did not meet cohort entry criteria | -7,882,977 | 81,067 |
| Excluded due to insufficient enrollment | -30,714 | 50,353 |
| Excluded due to prior use of referent | -12,429 | 37,924 |
| Excluded due to prior use of exposure | -4,863 | 33,061 |
| Excluded because patient qualified in >1 exposure category | 0 | 33,061 |
| Excluded based on Dementia Exclusion | -274 | 32,787 |
| Excluded based on RA Diagnosis | -101 | 32,686 |
| Excluded based on Nursing Home Admission | -135 | 32,551 |
| Excluded because patient did not begin follow-up | -2,119 | 30,432 |
| Patients in tocilizumab group | | 6,411 |
| Patients in abatacept group | | 24,021 |
| Final cohort | | 30,432 |

6. Variables

a. Exposure-related variables:

Study drug:

The study exposure of interest is initiation of tocilizumab

Comparator:

Initiators of tocilizumab will be compared to initiators of Abatacept

b. Covariates:

| Demographics | |
|--------------|-----------------------------|
| Age | Region |
| Gender | Calendar year of index date |
| Race | Low income subsidy |

| Dementia risk factors | |
|-------------------------|------------------|
| Diabetes | Depression |
| Obesity | Anxiety |
| Hypertension | Bipolar disorder |
| Coronary artery disease | Schizophrenia |

| Markers for healthy behavior, frailty, healthcare use | |
|---|--|
| Smoking | Number of hospitalizations |
| Mammography | Number of physician office visits |
| Colonoscopy | Number of serum creatinine tests ordered |
| Fecal occult blood test | Composite frailty score |
| Influenza vaccination | Number of rheumatologist visits |
| Pneumococcal vaccination | Number of C-reactive protein tests ordered |
| Herpes zoster vaccination | Osteoporosis |

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| | |
|-----------------------------------|----------------------------|
| Bone mineral density test | Fractures |
| Number of distinct generic agents | Falls |
| Number of emergency room visits | Use of supplemental oxygen |
| Number of outpatient visits | Combined comorbidity score |

| Comedication use | |
|---|--|
| Lithium | Angiotensin II receptor blockers |
| Anti-epileptic mood stabilizers | Angiotensin converting enzyme inhibitors |
| Anti-epileptics (other than mood stabilizers) | Beta blockers |
| Atypical antipsychotics | Calcium channel blockers |
| Benzodiazepines | Diuretics |
| Serotonin-norepinephrine reuptake Inhibitors | Nitrates |
| Selective serotonin reuptake inhibitors | Lipid lowering drugs |
| Tricyclic antidepressants (TCAs) | Non-insulin diabetes medications |
| Typical antipsychotics | Insulin |
| Anticoagulants | Antidepressants |
| Antiplatelet agents | |

| Rheumatoid arthritis related factors | |
|---|---|
| Number of combined biologic DMARDs (other than study medications) | Use of other nonbiologic DMARDs |
| Number of combined nonbiologic DMARDs | Nonsteroidal anti-inflammatory drugs/COXIBs |
| Methotrexate | Glucocorticoid dose |
| Hydroxychloroquine | Opioids |
| Leflunomide | |

| Comorbid conditions | |
|-------------------------------------|---------------------------------------|
| Atrial fibrillation | Renal dysfunction |
| Coronary artery disease | Chronic liver disease |
| Heart failure | Asthma |
| Stroke or transient ischemic attack | Ischemic heart disease |
| Peripheral vascular disease | Chronic obstructive pulmonary disease |

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| | |
|----------------|-------------------------------------|
| Hypertension | Malignancy |
| Diabetes | Drug or alcohol abuse or dependence |
| Hyperlipidemia | Venous thromboembolism |

ICD-9, ICD-10, HCPCS, and NDC codes used to define the covariates listed above are available in Appendix A.

c. Outcome variables and study follow-up:

- **Primary outcome:** incident dementia, i.e., Alzheimer’s disease, vascular dementia, senile, presenile, or unspecified dementia, or dementia in other diseases classified elsewhere. Outcome will be defined by 1 inpatient claim or 2 outpatient claims in analysis 1, 2, 3. In analysis 4, the outcome will be defined by 1 inpatient or 1 outpatient claims and 1 prescription claim for a symptomatic treatment [donepezil, galantamine, rivastigmine, and memantine] within 6 months of each other with outcome date assigned to second event in the sequence.
- Secondary outcomes: Individual component:
Alzheimer’s disease

| Condition | ICD-9 and ICD-10 codes |
|---|--------------------------------------|
| Alzheimer’s disease | 331.0*, F00*, G30* |
| Vascular dementia | 290.4*, F01* |
| Senile, presenile, or unspecified dementia | 290.0*, 290.1*, 290.3*, 797*, F03* |
| Dementia in other diseases classified elsewhere | 331.1*, 331.2*, 331.7*, 294.1*, F02* |

For analysis 1,3, and 4 the follow-up will start the day after initiation of tocilizumab and abatacept and will continue until the earliest date of the following events:

- The first occurrence of the outcome of interest
- The date of end of continuous registration in the database,
- End of the study period,
- Measured death event occurs,
- The date of drug discontinuation, defined as the date of the last continuous treatment episode of the index drug (tocilizumab and abatacept) plus a defined grace period (i.e., 90 days after the end of the last prescription’s days’ supply in main analyses).

For analysis 2, the follow-up will start 180 days after initiation of tocilizumab and abatacept and will continue until the earliest date of the following events:

- The first occurrence of the outcome of interest, unless otherwise specified for selected outcomes,
- The date of end of continuous registration in the database,
- End of the study period,
- Measured death event occurs,
- Maximum allowed follow-up time (1095 days) reached

7. Feasibility counts

| Analysis scheme | Total tofacitinib/abatacept initiators | N outcome | Dementia Rate per 1,000 person-years (95% CI) | Follow-up time in days; Median [IQR] |
|---|--|-----------|---|--------------------------------------|
| 1: As treated | 6,411 (21.1%) | 335 | 7.44 (6.64, 8.23) | 250 [87, 665] |
| | 24,021 (78.9%) | | | |
| 2: 6 mo induction period, 'as started' | 3,980 (20.5%) | 586 | 13.70 (12.60, 14.81) | 1,095 [494, 1,095] |
| | 15,415 (79.5%) | | | |
| 3: exclude 6 mo follow-up (symptoms to claims period) | 3,812 (20.0%) | 275 | 8.36 (7.41, 9.39) | 382 [133, 873] |
| | 15,218 (80.0%) | | | |
| 4: Outcome Dx + Rx | 6,411 (21.1%) | 144 | 4.42 (3.70, 5.14) | 251 [87, 668] |
| | 24,021 (78.9%) | | | |

8. Propensity score analysis

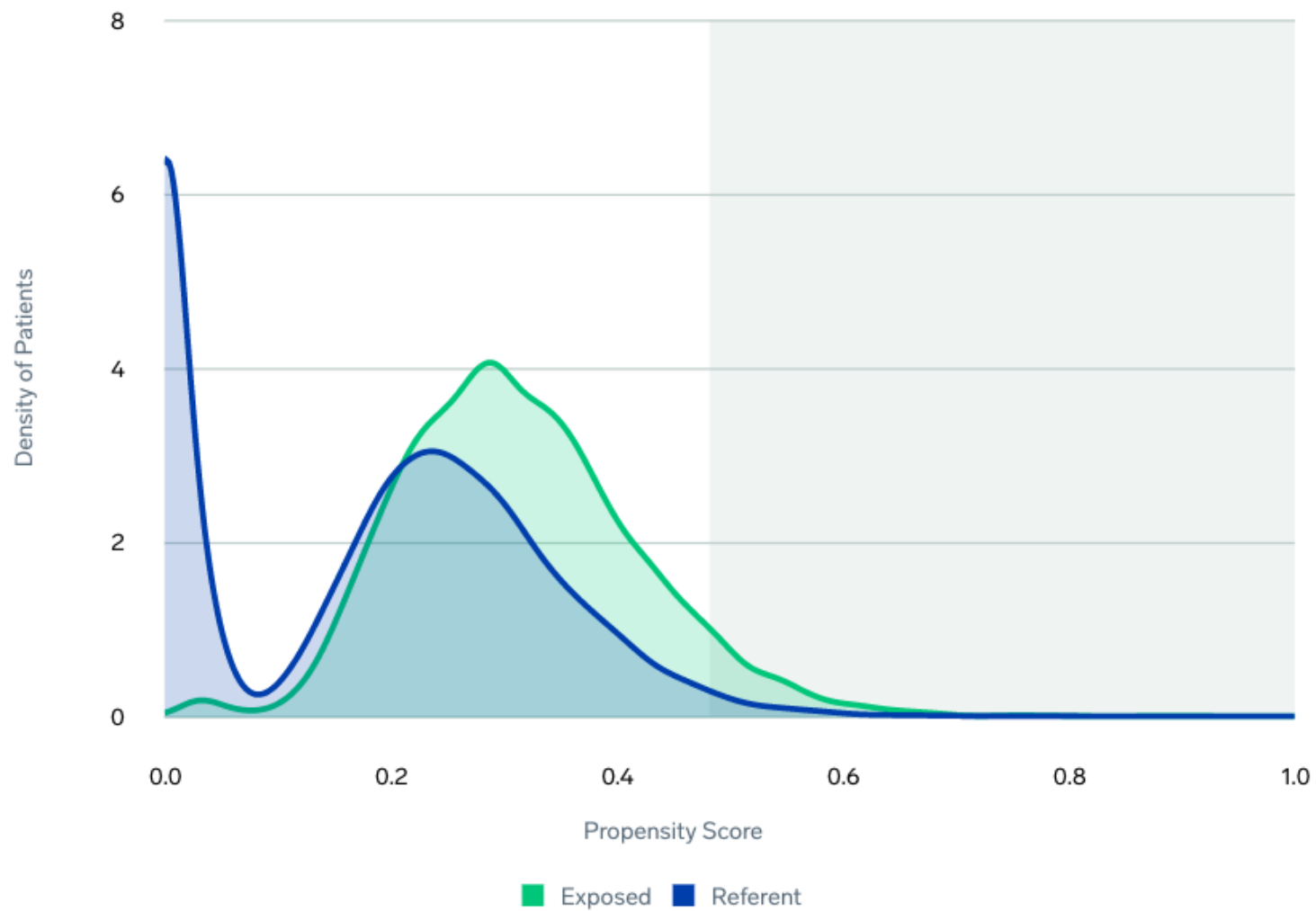
We will use a propensity-score (PS)¹-based approach to account for measured confounding in this study. The PS will be calculated as the predicted probability of initiating the exposure of interest (i.e., the repurposing candidate) versus the reference drug conditional on baseline covariates using multivariable logistic regression constructed separately in each data source. On average, patients with similar PSs have similar distribution of potential confounders used to estimate the PS. Therefore, analyses conditioned on the PS provide effect estimates that are free from measured confounding. For all our analyses, initiators of each exposure of interest will be matched with initiators of the reference exposure based on their PS within each data source.² Pair matching will be conducted using a nearest-neighbor algorithm, which seeks to minimize the distance between propensity scores in each pair of treated and reference patients,³ and a caliper of 0.025 on the natural scale of the PS will be used to ensure similarity between the matched patients.⁴

We report multiple diagnostics for PS analysis in this protocol. First, the PS distributional overlap is provided between two groups before and after matching to ensure comparability of these groups.⁵ Next, balance in each individual covariate between two treatment groups is reported using standardized differences.⁶

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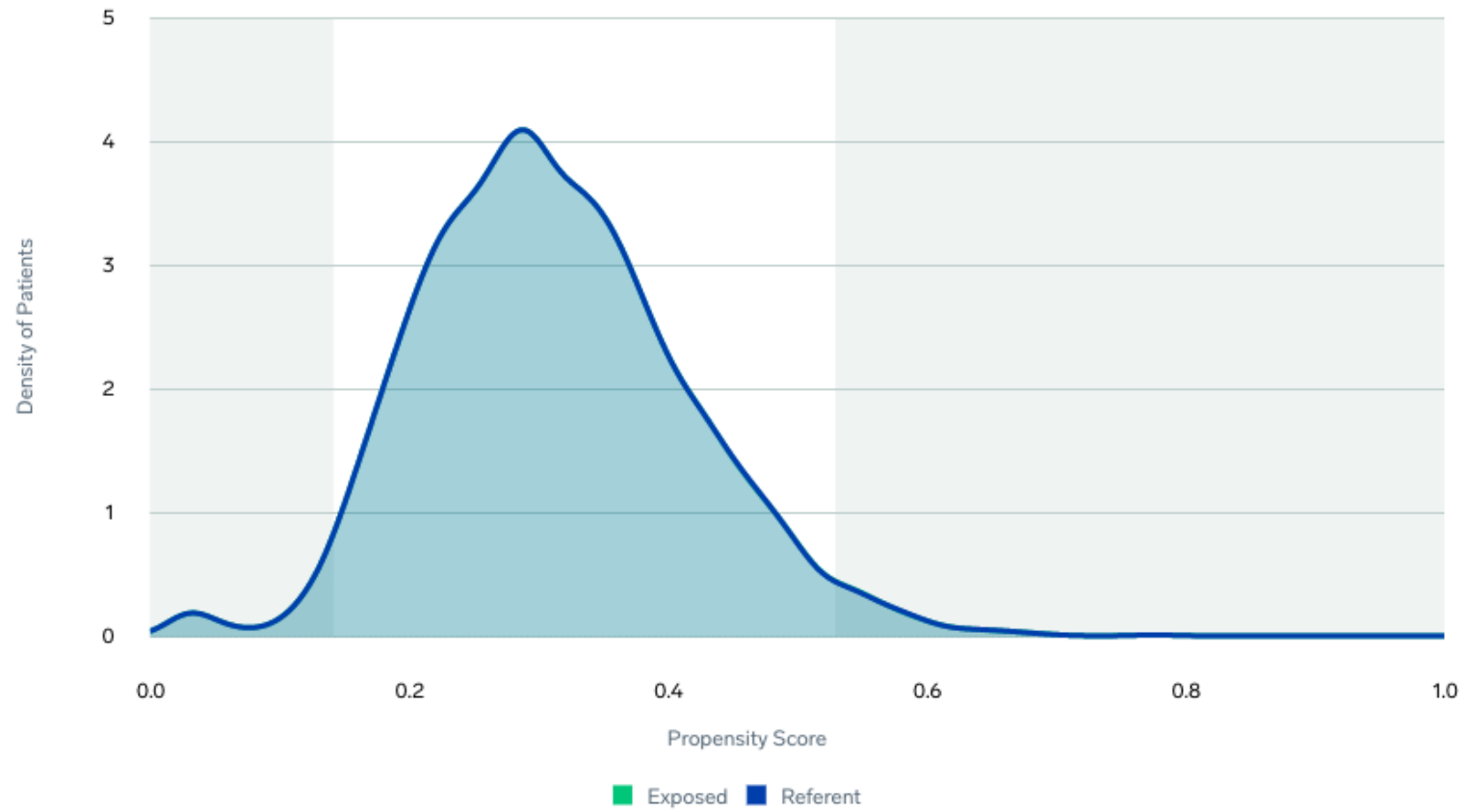
a. PS distributions stratified by treatment group

Pre-matching propensity score overlap:



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Post-matching propensity score overlap:



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b. Table for covariate balance

| Variable | Unmatched | | | PS-Matched | | |
|------------------------------------|----------------------------|---------------------------|----------|----------------------------|--------------------------|----------|
| | Tocilizumab (N = 6,411) | Abatacept (N = 24,021) | St. Diff | Tocilizumab (N = 6,369) | Abatacept (N = 6,369) | St. Diff |
| Demographics | | | | | | |
| Age, mean (SD) | 72.05 (5.52) | 72.56 (5.83) | -0.09 | 72.05 (5.53) | 71.99 (5.38) | 0.01 |
| Gender, n (%) | | | | | | |
| Male | 1,349 (21.0%) | 4,248 (17.7%) | 0.08 | 1,333 (20.9%) | 1,300 (20.4%) | 0.01 |
| Female | 5,062 (79.0%) | 19,773 (82.3%) | -0.08 | 5,036 (79.1%) | 5,069 (79.6%) | -0.01 |
| Race, n (%) | | | | | | |
| White | 5,662 (88.3%) | 21,030 (87.5%) | 0.02 | 5,624 (88.3%) | 5,627 (88.3%) | 0.00 |
| Black | 373 (5.8%) | 1,468 (6.1%) | -0.01 | 371 (5.8%) | 365 (5.7%) | 0.00 |
| Asian | 64 (1.0%) | 307 (1.3%) | -0.03 | 64 (1.0%) | 65 (1.0%) | 0.00 |
| Hispanic | 148 (2.3%) | 657 (2.7%) | -0.03 | 148 (2.3%) | 148 (2.3%) | 0.00 |
| Native American | 32 (0.5%) | 117 (0.5%) | 0.00 | 32 (0.5%) | 35 (0.5%) | 0.00 |
| Other | 90 (1.4%) | 315 (1.3%) | 0.01 | 89 (1.4%) | 90 (1.4%) | 0.00 |
| Unknown | 42 (0.7%) | 127 (0.5%) | 0.03 | 41 (0.6%) | 39 (0.6%) | 0.00 |
| Region, n (%) | | | | | | |
| Northeast | 1,059 (16.5%) | 3,555 (14.8%) | 0.05 | 1,053 (16.5%) | 1,050 (16.5%) | 0.00 |
| South | 2,761 (43.1%) | 10,938 (45.5%) | -0.05 | 2,748 (43.1%) | 2,743 (43.1%) | 0.00 |
| North Central | 1,172 (18.3%) | 5,078 (21.1%) | -0.07 | 1,168 (18.3%) | 1,169 (18.4%) | 0.00 |
| West | 1,418 (22.1%) | 4,392 (18.3%) | 0.09 | 1,399 (22.0%) | 1,405 (22.1%) | 0.00 |
| Unknown | 1 (0.0%) | 58 (0.2%) | -0.06 | 1 (0.0%) | 2 (0.0%) | 0.00 |
| Calendar year of index date, n (%) | | | | | | |
| 2007 | 0 (0.0%) | 2,057 (8.6%) | -0.43 | 0 (0.0%) | 0 (0.0%) | 0.00 |
| 2008 | 0 (0.0%) | 1,814 (7.6%) | -0.41 | 0 (0.0%) | 0 (0.0%) | 0.00 |
| 2009 | 0 (0.0%) | 2,136 (8.9%) | -0.44 | 0 (0.0%) | 0 (0.0%) | 0.00 |

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|--|---------------|----------------|-------|---------------|---------------|-------|
| 2010 | 62 (1.0%) | 1,958 (8.2%) | -0.35 | 62 (1.0%) | 64 (1.0%) | 0.00 |
| 2011 | 755 (11.8%) | 1,807 (7.5%) | 0.15 | 750 (11.8%) | 748 (11.7%) | 0.00 |
| 2012 | 574 (9.0%) | 2,153 (9.0%) | 0.00 | 574 (9.0%) | 566 (8.9%) | 0.00 |
| 2013 | 804 (12.5%) | 2,089 (8.7%) | 0.12 | 802 (12.6%) | 776 (12.2%) | 0.01 |
| 2014 | 907 (14.1%) | 1,996 (8.3%) | 0.18 | 898 (14.1%) | 920 (14.4%) | -0.01 |
| 2015 | 987 (15.4%) | 2,457 (10.2%) | 0.16 | 979 (15.4%) | 974 (15.3%) | 0.00 |
| 2016 | 1,043 (16.3%) | 2,610 (10.9%) | 0.16 | 1,035 (16.3%) | 1,047 (16.4%) | 0.00 |
| 2017 | 1,279 (20.0%) | 2,944 (12.3%) | 0.21 | 1,269 (19.9%) | 1,274 (20.0%) | 0.00 |
| Low income subsidy, n (%) | 972 (15.2%) | 4,360 (18.2%) | -0.08 | 966 (15.2%) | 974 (15.3%) | 0.00 |
| Dementia risk factors, n (%) | | | | | | |
| Diabetes | 1,894 (29.5%) | 7,319 (30.5%) | -0.02 | 1,886 (29.6%) | 1,859 (29.2%) | 0.01 |
| Obesity | 1,115 (17.4%) | 3,180 (13.2%) | 0.12 | 1,102 (17.3%) | 1,084 (17.0%) | 0.01 |
| Hypertension | 4,869 (75.9%) | 18,346 (76.4%) | -0.01 | 4,843 (76.0%) | 4,833 (75.9%) | 0.00 |
| Coronary artery disease | 1,690 (26.4%) | 6,580 (27.4%) | -0.02 | 1,680 (26.4%) | 1,632 (25.6%) | 0.02 |
| Depression | 1,264 (19.7%) | 4,437 (18.5%) | 0.03 | 1,256 (19.7%) | 1,286 (20.2%) | -0.01 |
| Anxiety | 907 (14.1%) | 3,070 (12.8%) | 0.04 | 900 (14.1%) | 913 (14.3%) | -0.01 |
| Bipolar disorder | 73 (1.1%) | 232 (1.0%) | 0.01 | 72 (1.1%) | 75 (1.2%) | -0.01 |
| Schizophrenia | 8 (0.1%) | 31 (0.1%) | 0.00 | 8 (0.1%) | 7 (0.1%) | 0.00 |
| Markers for healthy behavior, frailty, healthcare use | | | | | | |
| Smoking, n (%) | 1,500 (23.4%) | 4,222 (17.6%) | 0.14 | 1,491 (23.4%) | 1,478 (23.2%) | 0.00 |
| Mammography, n (%) | 2,197 (34.3%) | 7,835 (32.6%) | 0.04 | 2,185 (34.3%) | 2,204 (34.6%) | -0.01 |
| Colonoscopy, n (%) | 849 (13.2%) | 3,002 (12.5%) | 0.02 | 841 (13.2%) | 837 (13.1%) | 0.00 |
| Fecal occult blood test, n (%) | 604 (9.4%) | 2,313 (9.6%) | -0.01 | 597 (9.4%) | 615 (9.7%) | -0.01 |
| Influenza vaccination, n (%) | 4,438 (69.2%) | 16,425 (68.4%) | 0.02 | 4,412 (69.3%) | 4,454 (69.9%) | -0.01 |
| Pneumococcal vaccination, n (%) | 2,225 (34.7%) | 6,259 (26.1%) | 0.19 | 2,208 (34.7%) | 2,226 (35.0%) | -0.01 |
| Herpes zoster vaccination, n (%) | 22 (0.3%) | 122 (0.5%) | -0.03 | 22 (0.3%) | 31 (0.5%) | -0.03 |
| Bone mineral density test, n (%) | 1,863 (29.1%) | 7,473 (31.1%) | -0.04 | 1,853 (29.1%) | 1,860 (29.2%) | 0.00 |

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|---|---------------|----------------|-------|---------------|---------------|-------|
| Number of distinct generic agents, mean (SD) | 14.47 (6.73) | 14.52 (6.71) | 0.00 | 14.48 (6.72) | 14.43 (6.63) | 0.00 |
| Number of emergency room visits, mean (SD) | 0.64 (1.21) | 0.65 (1.19) | 0.00 | 0.64 (1.21) | 0.63 (1.16) | 0.00 |
| Number of outpatient visits, mean (SD) | 20.27 (16.84) | 20.71 (18.06) | 0.00 | 20.22 (16.82) | 20.23 (16.90) | 0.00 |
| Number of hospitalizations, mean (SD) | 0.32 (0.72) | 0.36 (0.79) | 0.00 | 0.32 (0.72) | 0.31 (0.72) | 0.00 |
| Number of physician office visits, mean (SD) | 5.02 (8.91) | 5.57 (8.81) | 0.00 | 5.03 (8.93) | 5.05 (8.77) | 0.00 |
| Number of rheumatologist visits, mean (SD) | 5.53 (4.00) | 5.38 (4.03) | 0.00 | 5.49 (3.88) | 5.46 (4.02) | 0.00 |
| Number of C-reactive protein tests ordered, mean (SD) | 3.40 (2.99) | 2.73 (2.66) | 0.00 | 3.35 (2.92) | 3.35 (2.87) | 0.00 |
| Number of serum creatinine tests ordered, mean (SD) | 6.78 (3.66) | 6.52 (3.58) | 0.00 | 6.76 (3.65) | 6.72 (3.53) | 0.00 |
| Composite frailty score, mean (SD) | 0.17 (0.04) | 0.17 (0.04) | 0.00 | 0.17 (0.04) | 0.17 (0.04) | 0.00 |
| Osteoporosis, n (%) | 2,622 (40.9%) | 10,290 (42.8%) | -0.04 | 2,605 (40.9%) | 2,588 (40.6%) | 0.01 |
| Fractures, n (%) | 700 (10.9%) | 2,646 (11.0%) | 0.00 | 698 (11.0%) | 671 (10.5%) | 0.02 |
| Falls, n (%) | 305 (4.8%) | 1,135 (4.7%) | 0.00 | 304 (4.8%) | 291 (4.6%) | 0.01 |
| Use of supplemental oxygen, n (%) | 121 (1.9%) | 298 (1.2%) | 0.06 | 119 (1.9%) | 112 (1.8%) | 0.01 |
| Combined comorbidity score, mean (SD) | 1.58 (2.21) | 1.58 (2.23) | 0.00 | 1.58 (2.21) | 1.53 (2.19) | 0.00 |
| Comedication use, n (%) | | | | | | |
| Lithium | 9 (0.1%) | 22 (0.1%) | 0.00 | 9 (0.1%) | 9 (0.1%) | 0.00 |
| Anti-epileptic mood stabilizers | 100 (1.6%) | 296 (1.2%) | 0.03 | 95 (1.5%) | 101 (1.6%) | -0.01 |
| Anti-epileptics (other than mood stabilizers) | 1,642 (25.6%) | 5,788 (24.1%) | 0.03 | 1,630 (25.6%) | 1,621 (25.5%) | 0.00 |
| Atypical antipsychotics | 105 (1.6%) | 344 (1.4%) | 0.02 | 105 (1.6%) | 101 (1.6%) | 0.00 |
| Benzodiazepines | 1,140 (17.8%) | 2,843 (11.8%) | 0.17 | 1,125 (17.7%) | 1,120 (17.6%) | 0.00 |
| Serotonin-norepinephrine reuptake inhibitors | 772 (12.0%) | 2,666 (11.1%) | 0.03 | 768 (12.1%) | 775 (12.2%) | 0.00 |

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|--|---------------|----------------|-------|---------------|---------------|-------|
| Selective serotonin reuptake inhibitors | 1,362 (21.2%) | 4,907 (20.4%) | 0.02 | 1,351 (21.2%) | 1,384 (21.7%) | -0.01 |
| Tricyclic antidepressants (TCAs) | 466 (7.3%) | 1,794 (7.5%) | -0.01 | 460 (7.2%) | 453 (7.1%) | 0.00 |
| Typical antipsychotics | 12 (0.2%) | 51 (0.2%) | 0.00 | 12 (0.2%) | 14 (0.2%) | 0.00 |
| Anticoagulants | 721 (11.2%) | 2,596 (10.8%) | 0.01 | 718 (11.3%) | 709 (11.1%) | 0.01 |
| Antiplatelet agents | 499 (7.8%) | 2,136 (8.9%) | -0.04 | 495 (7.8%) | 500 (7.9%) | 0.00 |
| Angiotensin II receptor blockers | 1,533 (23.9%) | 5,603 (23.3%) | 0.01 | 1,522 (23.9%) | 1,556 (24.4%) | -0.01 |
| Angiotensin converting enzyme inhibitors | 1,745 (27.2%) | 6,876 (28.6%) | -0.03 | 1,737 (27.3%) | 1,740 (27.3%) | 0.00 |
| Beta blockers | 2,520 (39.3%) | 9,528 (39.7%) | -0.01 | 2,506 (39.3%) | 2,464 (38.7%) | 0.01 |
| Calcium channel blockers | 1,732 (27.0%) | 6,698 (27.9%) | -0.02 | 1,721 (27.0%) | 1,726 (27.1%) | 0.00 |
| Diuretics | 2,046 (31.9%) | 7,952 (33.1%) | -0.03 | 2,036 (32.0%) | 1,963 (30.8%) | 0.03 |
| Nitrates | 404 (6.3%) | 1,718 (7.2%) | -0.04 | 401 (6.3%) | 376 (5.9%) | 0.02 |
| Lipid lowering drugs | 3,178 (49.6%) | 11,391 (47.4%) | 0.04 | 3,159 (49.6%) | 3,136 (49.2%) | 0.01 |
| Non-insulin diabetes medications | 1,023 (16.0%) | 3,735 (15.5%) | 0.01 | 1,017 (16.0%) | 1,014 (15.9%) | 0.00 |
| Insulin | 403 (6.3%) | 1,432 (6.0%) | 0.01 | 402 (6.3%) | 388 (6.1%) | 0.01 |
| Antidepressants | 2,575 (40.2%) | 9,135 (38.0%) | 0.05 | 2,557 (40.1%) | 2,570 (40.4%) | -0.01 |
| Rheumatoid arthritis related factors | | | | | | |
| Number of combined biologic DMARDs, n (%) | | | | | | |
| 0 | 1,732 (27.0%) | 8,779 (36.5%) | -0.21 | 1,726 (27.1%) | 1,686 (26.5%) | 0.01 |
| 1 | 3,019 (47.1%) | 11,510 (47.9%) | -0.02 | 3,007 (47.2%) | 3,027 (47.5%) | -0.01 |
| 2 | 1,220 (19.0%) | 3,050 (12.7%) | 0.17 | 1,211 (19.0%) | 1,245 (19.5%) | -0.01 |
| 3 or more | 440 (6.9%) | 682 (2.8%) | 0.19 | 425 (6.7%) | 411 (6.5%) | 0.01 |
| Number of combined nonbiologic DMARDs, n (%) | | | | | | |
| 0 | 649 (10.1%) | 2,289 (9.5%) | 0.02 | 642 (10.1%) | 622 (9.8%) | 0.01 |
| 1 | 2,679 (41.8%) | 9,944 (41.4%) | 0.01 | 2,657 (41.7%) | 2,678 (42.0%) | -0.01 |
| 2 | 1,883 (29.4%) | 7,268 (30.3%) | -0.02 | 1,875 (29.4%) | 1,885 (29.6%) | 0.00 |

DREAM study protocol- comparison 1 tocilizumab versus abatacept

| | | | | | | |
|--|---------------|----------------|-------|---------------|---------------|-------|
| 3 or more | 1,200 (18.7%) | 4,520 (18.8%) | 0.00 | 1,195 (18.8%) | 1,184 (18.6%) | 0.01 |
| Use of other nonbiologic DMARDs, n (%) | 1,020 (15.9%) | 4,270 (17.8%) | -0.05 | 1,017 (16.0%) | 1,033 (16.2%) | -0.01 |
| Methotrexate, n (%) | 3,458 (53.9%) | 13,906 (57.9%) | -0.08 | 3,435 (53.9%) | 3,381 (53.1%) | 0.02 |
| Hydroxychloroquine, n (%) | 1,277 (19.9%) | 5,710 (23.8%) | -0.09 | 1,275 (20.0%) | 1,275 (20.0%) | 0.00 |
| Leflunomide, n (%) | 1,154 (18.0%) | 4,585 (19.1%) | -0.03 | 1,151 (18.1%) | 1,193 (18.7%) | -0.02 |
| Nonsteroidal anti-inflammatory drugs/Coxibs, n (%) | 2,059 (32.1%) | 8,124 (33.8%) | -0.04 | 2,050 (32.2%) | 2,022 (31.7%) | 0.01 |
| Opioids, n (%) | 4,574 (71.3%) | 17,320 (72.1%) | -0.02 | 4,544 (71.3%) | 4,502 (70.7%) | 0.01 |
| Glucocorticoids use/dose, n (%) | 4,945 (77.1%) | 17,784 (74.0%) | 0.07 | 4,913 (77.1%) | 4,877 (76.6%) | 0.01 |
| Comorbid conditions, n (%) | | | | | | |
| Atrial fibrillation | 744 (11.6%) | 2,797 (11.6%) | 0.00 | 741 (11.6%) | 720 (11.3%) | 0.01 |
| Heart failure | 751 (11.7%) | 3,103 (12.9%) | -0.04 | 748 (11.7%) | 697 (10.9%) | 0.03 |
| Stroke or transient ischemic attack | 606 (9.5%) | 2,144 (8.9%) | 0.02 | 600 (9.4%) | 599 (9.4%) | 0.00 |
| Peripheral vascular disease | 718 (11.2%) | 2,952 (12.3%) | -0.03 | 715 (11.2%) | 696 (10.9%) | 0.01 |
| Hyperlipidemia | 4,425 (69.0%) | 15,979 (66.5%) | 0.05 | 4,390 (68.9%) | 4,344 (68.2%) | 0.02 |
| Renal dysfunction | 1,051 (16.4%) | 3,610 (15.0%) | 0.04 | 1,044 (16.4%) | 1,034 (16.2%) | 0.01 |
| Chronic liver disease | 573 (8.9%) | 2,280 (9.5%) | -0.02 | 571 (9.0%) | 561 (8.8%) | 0.01 |
| Asthma | 1,266 (19.7%) | 3,843 (16.0%) | 0.10 | 1,253 (19.7%) | 1,252 (19.7%) | 0.00 |
| Ischemic heart disease | 1,635 (25.5%) | 6,403 (26.7%) | -0.03 | 1,626 (25.5%) | 1,576 (24.7%) | 0.02 |
| Chronic obstructive pulmonary disease | 1,750 (27.3%) | 5,906 (24.6%) | 0.06 | 1,733 (27.2%) | 1,752 (27.5%) | -0.01 |
| Malignancy | 1,691 (26.4%) | 5,947 (24.8%) | 0.04 | 1,674 (26.3%) | 1,698 (26.7%) | -0.01 |
| Drug or alcohol abuse or dependence | 609 (9.5%) | 1,705 (7.1%) | 0.09 | 606 (9.5%) | 627 (9.8%) | -0.01 |
| Venous thromboembolism | 381 (5.9%) | 1,383 (5.8%) | 0.00 | 381 (6.0%) | 382 (6.0%) | 0.00 |

9. Statistical analysis plans

Incidence rates for the outcome will be estimated for the treatment and reference groups before and after PS matching. The competing risk of death could be of concern for the current set of analyses if mortality is frequent among patients included in the cohort and if differences in the risk of mortality between treatment and reference groups are substantial. In the PS-matched sample, we will use cause-specific hazard models⁷ to provide hazard ratios averaged over the entire follow-up period as well as interval specific hazard ratios (1, 2, and 3 years) for the association between the treatment of interest and risk of ADRD after considering all-cause mortality as a competing event. Pre-specified subgroup analyses will be conducted based on age, sex, and baseline cardiovascular disease.

10. References

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4. Austin PC. Some Methods of Propensity-Score Matching had Superior Performance to Others: Results of an Empirical Investigation and Monte Carlo simulations. *Biometrical Journal*. 2009;51(1):171-184.
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6. Franklin JM, Rassen JA, Ackermann D, Bartels DB, Schneeweiss S. Metrics for covariate balance in cohort studies of causal effects. *Statistics in medicine*. May 10 2014;33(10):1685-1699.
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Appendix A
Inclusion and exclusion criteria

| # | Implementation in routine care | |
|---------------------------------|---|--|
| EXPOSURE vs. COMPARISON | | |
| Tocilizumab vs Abatacept | | |
| INCLUSION CRITERIA | | |
| 1 | No prior use of tocilizumab or abatacept | Depending on the comparison group, we will require new-use (defined as no use anytime prior to index date) of tocilizumab and abatacept |
| 2 | Sufficient enrollment | Medicare Part A, B, and D enrollment with no HMO coverage for 365 days prior to and on the cohort entry date |
| EXCLUSION CRITERIA | | |
| 1 | Prior history of dementia | <p>Measured any time prior to drug initiation in any diagnosis position and inpatient or outpatient setting –</p> <p>ICD9 diagnosis – 046.1x, 290.xx (excluding 290.8), 291.2, 292.82, 294.1x, 294.2x, 331.0-331.2, 331.7, 331.82, 331.83, 333.4, 780.93, 797 ICD10 diagnosis – F01.xx-F03.xx, G30.xx-G31.85, R41.xx</p> <p>NDC brand name – “ARICEPT”, “ARICEPT ODT”, “EXELON”, “NAMENDA”, “NAMENDA XR”, “NAMZARIC”, “RAZADYNE”, “RAZADYNE ER”, or “REMINYL”</p> <p>NDC generic name – “DONEPEZIL HCL”, “GALANTAMINE HBR”, “MEMANTINE HCL”, “MEMANTINE HCL/DONEPEZIL HCL”, “RIVASTIGMINE”, or “RIVASTIGMINE TARTRATE”</p> |
| 2 | No prior history of rheumatoid arthritis | <p>Measured 365 days prior to drug initiation in any diagnosis position and inpatient or outpatient setting –</p> <p>ICD9 diagnosis – 714.xx ICD10 diagnosis – M05.xx, M06.xx, M08.xx, M12.xx</p> |
| 3 | Nursing home admission | <p>Measured 365 days prior to drug initiation –</p> <p>MEDPAR - Short Stay/Long Stay/SNF Indicator Code – N = SNF Stay (Prvdr3 = 5, 6, U, W, Y, or Z)</p> |

| Covariate list | |
|--|---|
| Category | Potential confounders |
| | ICD-9 |
| Demographics | Age |
| | Gender |
| | Race |
| | Region |
| | Calendar year of index date |
| | Low income subsidy |
| Dementia risk factors | Diabetes |
| | Obesity |
| | Hypertension |
| | Coronary artery disease |
| | Depression |
| | Anxiety |
| | Bipolar disorder |
| | Schizophrenia |
| Lifestyle factors and markers for healthy behavior | Smoking |
| | Mammography |
| | Colonoscopy |
| | Fecal occult blood test |
| | Influenza vaccination |
| | Pneumococcal vaccination |
| | Herpes zoster vaccination |
| | BMD test |
| Healthcare utilization measures | Number of distinct generic agents |
| | Number of emergency room visits |
| | Number of outpatient visits |
| | Number of hospitalizations |
| | Number of physician office visits |
| | Number of rheumatologist visits |
| | Number of CRP tests ordered |
| | Number of serum creatinine tests ordered |
| Frailty markers | Composite frailty score |
| | Osteoporosis |
| | Fractures |
| | Falls |
| | Use of supplemental oxygen |
| | A combined comorbidity score |
| RA-specific comorbidities | |
| | Lithium |
| | Anti-epileptic mood stabilizers |
| | Anti-epileptics (other than mood stabilizers) |

Appendix A

| | |
|----------------------------|--|
| Comedications | Atypical antipsychotics |
| | Benzodiazepines |
| | SNRIs |
| | SSRIs |
| | TCA's |
| | Typical antipsychotics |
| | Anticoagulants |
| | Antiplatelet agents |
| | Angiotensin II receptor blockers |
| | Angiotensin converting enzyme inhibitors |
| | Beta blockers |
| | Calcium channel blockers |
| | Diuretics |
| | Nitrates |
| | Lipid lowering drugs |
| | Non-insulin diabetes medications |
| | Insulin |
| | Antidepressants |
| Nonbiologics | Number of biologic DMARDs |
| | Number of nonbiologic DMARDs |
| | Use of other nonbiologic DMARDs |
| | Methotrexate |
| | Hydroxychloroquine |
| | Leflunomide |
| | Sulfasalazine |
| | Anakinra |
| | Auranofin |
| | Azathioprine |
| | Cyclosporine |
| | Cyclophosphamide |
| | Gold sodium thiomalate |
| | NSAID/COXIB |
| | Opioids |
| Glucocorticoids | |
| Comorbid conditions | Atrial fibrillation |
| | Coronary artery disease |
| | Heart failure |
| | Stroke or TIA |
| | Peripheral vascular disease |
| | Hypertension |
| | Diabetes |
| | Hyperlipidemia |
| | Renal dysfunction |
| | Chronic liver disease |
| | Asthma |
| Ischemic heart disease | |

Appendix A

| | |
|--|-------------------------------------|
| | COPD |
| | Malignancy |
| | Drug or alcohol abuse or dependence |
| | VTE |

Appendix A Demographics

| Calendar year of index date |
|-----------------------------|
| Year |
| 2007 |
| 2008 |
| 2009 |
| 2010 |
| 2011 |
| 2012 |
| 2013 |
| 2014 |
| 2015 |
| 2016 |
| 2017 |

Low income subsidy

<https://www.cms.gov/Medicare/Eligibility-and-Enrollment/LowIncSubMedicarePresCov/Downloads/StateLISGuidance021009.pdf>

Appendix A
Dementia risk factors

Diabetes

| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
|----------|---------|---|---|
| E11621 | 25080 | Type 2 diabetes mellitus with foot ulcer | Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled |
| E13621 | 25080 | Other specified diabetes mellitus with foot ulcer | Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled |
| E10621 | 25081 | Type 1 diabetes mellitus with foot ulcer | Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled |
| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
| E1310 | 25010 | Other specified diabetes mellitus with ketoacidosis without coma | Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled |
| E1010 | 25011 | Type 1 diabetes mellitus with ketoacidosis without coma | Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled |
| E1310 | 25012 | Other specified diabetes mellitus with ketoacidosis without coma | Diabetes with ketoacidosis, type II or unspecified type, uncontrolled |
| E1010 | 25013 | Type 1 diabetes mellitus with ketoacidosis without coma | Diabetes with ketoacidosis, type I [juvenile type], |
| E1011 | 25031 | Type 1 diabetes mellitus with ketoacidosis with coma | Diabetes with other coma, type I [juvenile type], not stated as uncontrolled |
| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
| E1021 | 25041 | Type 1 diabetes mellitus with diabetic nephropathy | Diabetes with renal manifestations type I [juvenile type] not stated as uncontrolled |
| E1022 | 25041 | Type 1 diabetes mellitus with diabetic chronic kidney disease | Diabetes with renal manifestations type I [juvenile type] not stated as uncontrolled |
| E1029 | 25041 | Type 1 diabetes mellitus with other diabetic kidney complication | Diabetes with renal manifestations type I [juvenile type] not stated as uncontrolled |
| E1121 | 25042 | Type 2 diabetes mellitus with diabetic nephropathy | Diabetes with renal manifestations type II or unspecified type uncontrolled |
| E1021 | 25043 | Type 1 diabetes mellitus with diabetic nephropathy | Diabetes with renal manifestations type I [juvenile type] uncontrolled |
| E1122 | | Type 2 diabetes mellitus with diabetic chronic kidney | |
| E1129 | | Type 2 diabetes mellitus with other diabetic kidney | |
| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
| E1011 | 25031 | Type 1 diabetes mellitus with ketoacidosis with coma | Diabetes with other coma, type I [juvenile type], not stated as uncontrolled |
| E10641 | 25031 | Type 1 diabetes mellitus with hypoglycemia with coma | Diabetes with other coma, type I [juvenile type], not stated as uncontrolled |
| E1011 | 25033 | Type 1 diabetes mellitus with ketoacidosis with coma | Diabetes with other coma, type I [juvenile type], |
| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
| E0921 | 58381 | Drug or chemical induced diabetes mellitus with diabetic nephropathy | Nephritis and nephropathy, not specified as acute or chronic, in diseases classified elsewhere |
| E0922 | 58381 | Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease | Nephritis and nephropathy, not specified as acute or chronic, in diseases classified elsewhere |
| E0929 | 58381 | Drug or chemical induced diabetes mellitus with other diabetic kidney complication | Nephritis and nephropathy, not specified as acute or chronic, in diseases classified elsewhere |
| M3214 | 58381 | Glomerular disease in systemic lupus erythematosus | Nephritis and nephropathy, not specified as acute or chronic, in diseases classified elsewhere |
| M3215 | 58381 | Tubulo-interstitial nephropathy in systemic lupus erythematosus | Nephritis and nephropathy, not specified as acute or chronic, in diseases classified elsewhere |
| M3504 | 58381 | Sicca syndrome with tubulo-interstitial nephropathy | Nephritis and nephropathy, not specified as acute or chronic, in diseases classified elsewhere |
| N08 | 58381 | Glomerular disorders in diseases classified elsewhere | Nephritis and nephropathy, not specified as acute or chronic, in diseases classified elsewhere |
| N16 | 58381 | Renal tubulo-interstitial disorders in diseases classified elsewhere | Nephritis and nephropathy, not specified as acute or chronic, in diseases classified elsewhere |
| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
| E1036 | 25051 | Type 1 diabetes mellitus with diabetic cataract | Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled |
| E1036 | 25053 | Type 1 diabetes mellitus with diabetic cataract | Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled |
| E1037X1 | 25051 | Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye | Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled |

Appendix A
Dementia risk factors

| | | | |
|-----------------|----------------|---|---|
| E1037X2 | 25051 | Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye | Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled |
| E1037X3 | 25051 | Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral | Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled |
| E1037X9 | 25051 | Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye | Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled |
| E1039 | 25051 | Type 1 diabetes mellitus with other diabetic ophthalmic complication | Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled |
| E1039 | 25053 | Type 1 diabetes mellitus with other diabetic ophthalmic complication | Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled |
| E1136 | 25050 | Type 2 diabetes mellitus with diabetic cataract | Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled |
| E1136 | 25052 | Type 2 diabetes mellitus with diabetic cataract | Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled |
| E1137X1 | 25050 | Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye | Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled |
| E1137X2 | 25050 | Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye | Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled |
| E1137X3 | 25050 | Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral | Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled |
| E1137X9 | 25050 | Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye | Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled |
| E1139 | 25050 | Type 2 diabetes mellitus with other diabetic ophthalmic complication | Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled |
| E1139 | 25052 | Type 2 diabetes mellitus with other diabetic ophthalmic complication | Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled |
| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
| E11618 | 25080 | Type 2 diabetes mellitus with other diabetic arthropathy | Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled |
| E11620 | 25080 | Type 2 diabetes mellitus with diabetic dermatitis | Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled |
| E11630 | 25080 | Type 2 diabetes mellitus with periodontal disease | Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled |
| E11638 | 25080 | Type 2 diabetes mellitus with other oral complications | Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled |
| E1169 | 25080 | Type 2 diabetes mellitus with other specified complication | Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled |
| E13618 | 25080 | Other specified diabetes mellitus with other diabetic arthropathy | Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled |
| E13620 | 25080 | Other specified diabetes mellitus with diabetic dermatitis | Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled |
| E13630 | 25080 | Other specified diabetes mellitus with periodontal disease | Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled |
| E13638 | 25080 | Other specified diabetes mellitus with other oral complications | Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled |
| E1369 | 25080 | Other specified diabetes mellitus with other specified complication | Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled |
| E10618 | 25081 | Type 1 diabetes mellitus with other diabetic arthropathy | Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled |
| E10620 | 25081 | Type 1 diabetes mellitus with diabetic dermatitis | Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled |
| E10630 | 25081 | Type 1 diabetes mellitus with periodontal disease | Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled |
| E10638 | 25081 | Type 1 diabetes mellitus with other oral complications | Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled |
| E1069 | 25081 | Type 1 diabetes mellitus with other specified complication | Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled |
| E1169 | 25082 | Type 2 diabetes mellitus with other specified complication | Diabetes with other specified manifestations, type II or unspecified type, uncontrolled |
| E1069 | 25083 | Type 1 diabetes mellitus with other specified complication | Diabetes with other specified manifestations, type I [juvenile type], uncontrolled |
| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |

Appendix A
Dementia risk factors

| | | | |
|-----------------|----------------|--|---|
| E1151 | 25070 | Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene | Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled |
| E1152 | 25070 | Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene | Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled |
| E1159 | 25070 | Type 2 diabetes mellitus with other circulatory complications | Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled |
| E1351 | 25070 | Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene | Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled |
| E1352 | 25070 | Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene | Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled |
| E1359 | 25070 | Other specified diabetes mellitus with other circulatory complications | Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled |
| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
| E08311 | 36201 | Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy with macular edema | Background diabetic retinopathy |
| E08311 | 36207 | Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy with macular edema | Diabetic macular edema |
| E08319 | 36201 | Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy without macular edema | Background diabetic retinopathy |
| E083211 | 36204 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, right eye | Mild nonproliferative diabetic retinopathy |
| E083211 | 36207 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, right eye | Diabetic macular edema |
| E083212 | 36204 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, left eye | Mild nonproliferative diabetic retinopathy |
| E083212 | 36207 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, left eye | Diabetic macular edema |
| E083213 | 36204 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, bilateral | Mild nonproliferative diabetic retinopathy |
| E083213 | 36207 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, bilateral | Diabetic macular edema |
| E083219 | 36204 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye | Mild nonproliferative diabetic retinopathy |
| E083219 | 36207 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye | Diabetic macular edema |
| E083291 | 36204 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, right eye | Mild nonproliferative diabetic retinopathy |
| E083292 | 36204 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, left eye | Mild nonproliferative diabetic retinopathy |
| E083293 | 36204 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, bilateral | Mild nonproliferative diabetic retinopathy |
| E083299 | 36204 | Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye | Mild nonproliferative diabetic retinopathy |
| E083311 | 36205 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, right eye | Moderate nonproliferative diabetic retinopathy |
| E083311 | 36207 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, right eye | Diabetic macular edema |

Appendix A
Dementia risk factors

| | | | |
|---------|-------|--|--|
| E083312 | 36205 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, left eye | Moderate nonproliferative diabetic retinopathy |
| E083312 | 36207 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, left eye | Diabetic macular edema |
| E083313 | 36205 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, bilateral | Moderate nonproliferative diabetic retinopathy |
| E083313 | 36207 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, bilateral | Diabetic macular edema |
| E083319 | 36205 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye | Moderate nonproliferative diabetic retinopathy |
| E083319 | 36207 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye | Diabetic macular edema |
| E083391 | 36205 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, right eye | Moderate nonproliferative diabetic retinopathy |
| E083392 | 36205 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, left eye | Moderate nonproliferative diabetic retinopathy |
| E083393 | 36205 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, bilateral | Moderate nonproliferative diabetic retinopathy |
| E083399 | 36205 | Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye | Moderate nonproliferative diabetic retinopathy |
| E083411 | 36206 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, right eye | Severe nonproliferative diabetic retinopathy |
| E083411 | 36207 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, right eye | Diabetic macular edema |
| E083412 | 36206 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, left eye | Severe nonproliferative diabetic retinopathy |
| E083412 | 36207 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, left eye | Diabetic macular edema |
| E083413 | 36206 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, bilateral | Severe nonproliferative diabetic retinopathy |
| E083413 | 36207 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, bilateral | Diabetic macular edema |
| E083419 | 36206 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye | Severe nonproliferative diabetic retinopathy |
| E083419 | 36207 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye | Diabetic macular edema |
| E083491 | 36206 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, right eye | Severe nonproliferative diabetic retinopathy |
| E083492 | 36206 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, left eye | Severe nonproliferative diabetic retinopathy |

Appendix A
Dementia risk factors

| | | | |
|---------|-------|--|--|
| E083493 | 36206 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, bilateral | Severe nonproliferative diabetic retinopathy |
| E083499 | 36206 | Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye | Severe nonproliferative diabetic retinopathy |
| E083511 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, right eye | Proliferative diabetic retinopathy |
| E083511 | 36207 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, right eye | Diabetic macular edema |
| E083512 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, left eye | Proliferative diabetic retinopathy |
| E083512 | 36207 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, left eye | Diabetic macular edema |
| E083513 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, bilateral | Proliferative diabetic retinopathy |
| E083513 | 36207 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, bilateral | Diabetic macular edema |
| E083519 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, unspecified eye | Proliferative diabetic retinopathy |
| E083519 | 36207 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, unspecified eye | Diabetic macular edema |
| E083521 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye | Proliferative diabetic retinopathy |
| E083522 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye | Proliferative diabetic retinopathy |
| E083523 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral | Proliferative diabetic retinopathy |
| E083529 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye | Proliferative diabetic retinopathy |
| E083531 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye | Proliferative diabetic retinopathy |
| E083532 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye | Proliferative diabetic retinopathy |
| E083533 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral | Proliferative diabetic retinopathy |
| E083539 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye | Proliferative diabetic retinopathy |
| E083541 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye | Proliferative diabetic retinopathy |
| E083542 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye | Proliferative diabetic retinopathy |

Appendix A
Dementia risk factors

| | | | |
|---------|-------|--|--|
| E083543 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral | Proliferative diabetic retinopathy |
| E083549 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye | Proliferative diabetic retinopathy |
| E083551 | 36202 | Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, right eye | Proliferative diabetic retinopathy |
| E083552 | 36202 | Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, left eye | Proliferative diabetic retinopathy |
| E083553 | 36202 | Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, bilateral | Proliferative diabetic retinopathy |
| E083559 | 36202 | Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, unspecified eye | Proliferative diabetic retinopathy |
| E083591 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, right eye | Proliferative diabetic retinopathy |
| E083592 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, left eye | Proliferative diabetic retinopathy |
| E083593 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, bilateral | Proliferative diabetic retinopathy |
| E083599 | 36202 | Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, unspecified eye | Proliferative diabetic retinopathy |
| E09311 | 36201 | Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy with macular edema | Background diabetic retinopathy |
| E09311 | 36207 | Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy with macular edema | Diabetic macular edema |
| E09319 | 36201 | Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy without macular edema | Background diabetic retinopathy |
| E093211 | 36204 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye | Mild nonproliferative diabetic retinopathy |
| E093211 | 36207 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye | Diabetic macular edema |
| E093212 | 36204 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye | Mild nonproliferative diabetic retinopathy |
| E093212 | 36207 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye | Diabetic macular edema |
| E093213 | 36204 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral | Mild nonproliferative diabetic retinopathy |
| E093213 | 36207 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral | Diabetic macular edema |
| E093219 | 36204 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye | Mild nonproliferative diabetic retinopathy |
| E093219 | 36207 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye | Diabetic macular edema |
| E093291 | 36204 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye | Mild nonproliferative diabetic retinopathy |

Appendix A
Dementia risk factors

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|---------|-------|---|--|
| E093292 | 36204 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye | Mild nonproliferative diabetic retinopathy |
| E093293 | 36204 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral | Mild nonproliferative diabetic retinopathy |
| E093299 | 36204 | Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye | Mild nonproliferative diabetic retinopathy |
| E093311 | 36205 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye | Moderate nonproliferative diabetic retinopathy |
| E093311 | 36207 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye | Diabetic macular edema |
| E093312 | 36205 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye | Moderate nonproliferative diabetic retinopathy |
| E093312 | 36207 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye | Diabetic macular edema |
| E093313 | 36205 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral | Moderate nonproliferative diabetic retinopathy |
| E093313 | 36207 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral | Diabetic macular edema |
| E093319 | 36205 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye | Moderate nonproliferative diabetic retinopathy |
| E093319 | 36207 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye | Diabetic macular edema |
| E093391 | 36205 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye | Moderate nonproliferative diabetic retinopathy |
| E093392 | 36205 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye | Moderate nonproliferative diabetic retinopathy |
| E093393 | 36205 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral | Moderate nonproliferative diabetic retinopathy |
| E093399 | 36205 | Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye | Moderate nonproliferative diabetic retinopathy |
| E093411 | 36206 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye | Severe nonproliferative diabetic retinopathy |
| E093411 | 36207 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye | Diabetic macular edema |
| E093412 | 36206 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye | Severe nonproliferative diabetic retinopathy |
| E093412 | 36207 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye | Diabetic macular edema |
| E093413 | 36206 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral | Severe nonproliferative diabetic retinopathy |

Appendix A
Dementia risk factors

| | | | |
|---------|-------|---|--|
| E093413 | 36207 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral | Diabetic macular edema |
| E093419 | 36206 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye | Severe nonproliferative diabetic retinopathy |
| E093419 | 36207 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye | Diabetic macular edema |
| E093491 | 36206 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye | Severe nonproliferative diabetic retinopathy |
| E093492 | 36206 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye | Severe nonproliferative diabetic retinopathy |
| E093493 | 36206 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral | Severe nonproliferative diabetic retinopathy |
| E093499 | 36206 | Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye | Severe nonproliferative diabetic retinopathy |
| E093511 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, | Proliferative diabetic retinopathy |
| E093511 | 36207 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, | Diabetic macular edema |
| E093512 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, left | Proliferative diabetic retinopathy |
| E093512 | 36207 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, left | Diabetic macular edema |
| E093513 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, | Proliferative diabetic retinopathy |
| E093513 | 36207 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, | Diabetic macular edema |
| E093519 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, | Proliferative diabetic retinopathy |
| E093519 | 36207 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, | Diabetic macular edema |
| E093521 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye | Proliferative diabetic retinopathy |
| E093522 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye | Proliferative diabetic retinopathy |
| E093523 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral | Proliferative diabetic retinopathy |
| E093529 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye | Proliferative diabetic retinopathy |
| E093531 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye | Proliferative diabetic retinopathy |
| E093532 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye | Proliferative diabetic retinopathy |
| E093533 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral | Proliferative diabetic retinopathy |
| E093539 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye | Proliferative diabetic retinopathy |

Appendix A
Dementia risk factors

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|---------|-------|---|--|
| E093541 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye | Proliferative diabetic retinopathy |
| E093542 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal | Proliferative diabetic retinopathy |
| E093543 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral | Proliferative diabetic retinopathy |
| E093549 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye | Proliferative diabetic retinopathy |
| E093551 | 36202 | Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, right eye | Proliferative diabetic retinopathy |
| E093552 | 36202 | Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, left eye | Proliferative diabetic retinopathy |
| E093553 | 36202 | Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, bilateral | Proliferative diabetic retinopathy |
| E093559 | 36202 | Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye | Proliferative diabetic retinopathy |
| E093591 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, | Proliferative diabetic retinopathy |
| E093592 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, | Proliferative diabetic retinopathy |
| E093593 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, | Proliferative diabetic retinopathy |
| E093599 | 36202 | Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, | Proliferative diabetic retinopathy |
| E10311 | 36201 | Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema | Background diabetic retinopathy |
| E10311 | 36207 | Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema | Diabetic macular edema |
| E10319 | 36201 | Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema | Background diabetic retinopathy |
| E103211 | 36204 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye | Mild nonproliferative diabetic retinopathy |
| E103211 | 36207 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye | Diabetic macular edema |
| E103212 | 36204 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye | Mild nonproliferative diabetic retinopathy |
| E103212 | 36207 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye | Diabetic macular edema |
| E103213 | 36204 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral | Mild nonproliferative diabetic retinopathy |
| E103213 | 36207 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral | Diabetic macular edema |
| E103219 | 36204 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye | Mild nonproliferative diabetic retinopathy |
| E103219 | 36207 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye | Diabetic macular edema |
| E103291 | 36204 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye | Mild nonproliferative diabetic retinopathy |
| E103292 | 36204 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye | Mild nonproliferative diabetic retinopathy |
| E103293 | 36204 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral | Mild nonproliferative diabetic retinopathy |
| E103299 | 36204 | Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye | Mild nonproliferative diabetic retinopathy |

Appendix A
Dementia risk factors

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|---------|-------|---|--|
| E103519 | 36207 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye | Diabetic macular edema |
| E103521 | 36202 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye | Proliferative diabetic retinopathy |
| E103522 | 36202 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye | Proliferative diabetic retinopathy |
| E103523 | 36202 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral | Proliferative diabetic retinopathy |
| E103529 | 36202 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye | Proliferative diabetic retinopathy |
| E103531 | 36202 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye | Proliferative diabetic retinopathy |
| E103532 | 36202 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye | Proliferative diabetic retinopathy |
| E103533 | 36202 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral | Proliferative diabetic retinopathy |
| E103539 | 36202 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye | Proliferative diabetic retinopathy |
| E103541 | 36202 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye | Proliferative diabetic retinopathy |
| E103542 | 36202 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye | Proliferative diabetic retinopathy |
| E103543 | 36202 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral | Proliferative diabetic retinopathy |
| E103549 | 36202 | Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye | Proliferative diabetic retinopathy |
| E103551 | 36202 | Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye | Proliferative diabetic retinopathy |
| E103552 | 36202 | Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye | Proliferative diabetic retinopathy |
| E103553 | 36202 | Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral | Proliferative diabetic retinopathy |
| E103559 | 36202 | Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye | Proliferative diabetic retinopathy |
| E103591 | 36202 | Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye | Proliferative diabetic retinopathy |
| E103592 | 36202 | Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye | Proliferative diabetic retinopathy |
| E103593 | 36202 | Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral | Proliferative diabetic retinopathy |
| E103599 | 36202 | Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye | Proliferative diabetic retinopathy |
| E11311 | 36201 | Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema | Background diabetic retinopathy |
| E11311 | 36207 | Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema | Diabetic macular edema |
| E11319 | 36201 | Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema | Background diabetic retinopathy |
| E113211 | 36204 | Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye | Mild nonproliferative diabetic retinopathy |

Appendix A
Dementia risk factors

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|---------|-------|---|--|
| E113413 | 36206 | Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral | Severe nonproliferative diabetic retinopathy |
| E113413 | 36207 | Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral | Diabetic macular edema |
| E113419 | 36206 | Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye | Severe nonproliferative diabetic retinopathy |
| E113419 | 36207 | Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye | Diabetic macular edema |
| E113491 | 36206 | Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye | Severe nonproliferative diabetic retinopathy |
| E113492 | 36206 | Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye | Severe nonproliferative diabetic retinopathy |
| E113493 | 36206 | Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral | Severe nonproliferative diabetic retinopathy |
| E113499 | 36206 | Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified | Severe nonproliferative diabetic retinopathy |
| E113511 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye | Proliferative diabetic retinopathy |
| E113511 | 36207 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye | Diabetic macular edema |
| E113512 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye | Proliferative diabetic retinopathy |
| E113512 | 36207 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye | Diabetic macular edema |
| E113513 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral | Proliferative diabetic retinopathy |
| E113513 | 36207 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral | Diabetic macular edema |
| E113519 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye | Proliferative diabetic retinopathy |
| E113519 | 36207 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye | Diabetic macular edema |
| E113521 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye | Proliferative diabetic retinopathy |
| E113522 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye | Proliferative diabetic retinopathy |
| E113523 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral | Proliferative diabetic retinopathy |
| E113529 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye | Proliferative diabetic retinopathy |
| E113531 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye | Proliferative diabetic retinopathy |
| E113532 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye | Proliferative diabetic retinopathy |
| E113533 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral | Proliferative diabetic retinopathy |
| E113539 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye | Proliferative diabetic retinopathy |
| E113541 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye | Proliferative diabetic retinopathy |
| E113542 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye | Proliferative diabetic retinopathy |

Appendix A
Dementia risk factors

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|---------|-------|---|--|
| E113543 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral | Proliferative diabetic retinopathy |
| E113549 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye | Proliferative diabetic retinopathy |
| E113551 | 36202 | Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye | Proliferative diabetic retinopathy |
| E113552 | 36202 | Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye | Proliferative diabetic retinopathy |
| E113553 | 36202 | Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral | Proliferative diabetic retinopathy |
| E113559 | 36202 | Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye | Proliferative diabetic retinopathy |
| E113591 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye | Proliferative diabetic retinopathy |
| E113592 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye | Proliferative diabetic retinopathy |
| E113593 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral | Proliferative diabetic retinopathy |
| E113599 | 36202 | Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye | Proliferative diabetic retinopathy |
| E13311 | 36201 | Other specified diabetes mellitus with unspecified diabetic retinopathy with macular edema | Background diabetic retinopathy |
| E13311 | 36207 | Other specified diabetes mellitus with unspecified diabetic retinopathy with macular edema | Diabetic macular edema |
| E13319 | 36201 | Other specified diabetes mellitus with unspecified diabetic retinopathy without macular edema | Background diabetic retinopathy |
| E133211 | 36204 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye | Mild nonproliferative diabetic retinopathy |
| E133211 | 36207 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye | Diabetic macular edema |
| E133212 | 36204 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye | Mild nonproliferative diabetic retinopathy |
| E133212 | 36207 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye | Diabetic macular edema |
| E133213 | 36204 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral | Mild nonproliferative diabetic retinopathy |
| E133213 | 36207 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral | Diabetic macular edema |
| E133219 | 36204 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye | Mild nonproliferative diabetic retinopathy |
| E133219 | 36207 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye | Diabetic macular edema |
| E133291 | 36204 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye | Mild nonproliferative diabetic retinopathy |
| E133292 | 36204 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye | Mild nonproliferative diabetic retinopathy |
| E133293 | 36204 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral | Mild nonproliferative diabetic retinopathy |
| E133299 | 36204 | Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified | Mild nonproliferative diabetic retinopathy |
| E133311 | 36205 | Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye | Moderate nonproliferative diabetic retinopathy |
| E133311 | 36207 | Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye | Diabetic macular edema |
| E133312 | 36205 | Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye | Moderate nonproliferative diabetic retinopathy |

Appendix A
Dementia risk factors

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|---------|-------|--|--|
| E133513 | 36207 | Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral | Diabetic macular edema |
| E133519 | 36202 | Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye | Proliferative diabetic retinopathy |
| E133519 | 36207 | Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye | Diabetic macular edema |
| E133521 | 36202 | Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye | Proliferative diabetic retinopathy |
| E133522 | 36202 | Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye | Proliferative diabetic retinopathy |
| E133523 | 36202 | Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral | Proliferative diabetic retinopathy |
| E133529 | 36202 | Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye | Proliferative diabetic retinopathy |
| E133531 | 36202 | Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye | Proliferative diabetic retinopathy |
| E133532 | 36202 | Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye | Proliferative diabetic retinopathy |
| E133533 | 36202 | Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral | Proliferative diabetic retinopathy |
| E133539 | 36202 | Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye | Proliferative diabetic retinopathy |
| E133541 | 36202 | Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye | Proliferative diabetic retinopathy |
| E133542 | 36202 | Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye | Proliferative diabetic retinopathy |
| E133543 | 36202 | Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral | Proliferative diabetic retinopathy |
| E133549 | 36202 | Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye | Proliferative diabetic retinopathy |
| E133551 | 36202 | Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye | Proliferative diabetic retinopathy |
| E133552 | 36202 | Other specified diabetes mellitus with stable proliferative diabetic retinopathy, left eye | Proliferative diabetic retinopathy |
| E133553 | 36202 | Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral | Proliferative diabetic retinopathy |
| E133559 | 36202 | Other specified diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye | Proliferative diabetic retinopathy |
| E133591 | 36202 | Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye | Proliferative diabetic retinopathy |
| E133592 | 36202 | Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye | Proliferative diabetic retinopathy |
| E133593 | 36202 | Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral | Proliferative diabetic retinopathy |
| E133599 | 36202 | Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye | Proliferative diabetic retinopathy |
| E1336 | 25050 | Other specified diabetes mellitus with diabetic cataract | Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled |
| E1337X1 | 25050 | Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, right eye | Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled |

Appendix A
Dementia risk factors

| | | | |
|-----------------|----------------|--|--|
| E1337X2 | 25050 | Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, left eye | Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled |
| E1337X3 | 25050 | Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral | Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled |
| E1337X9 | 25050 | Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye | Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled |
| E1339 | 25050 | Other specified diabetes mellitus with other diabetic ophthalmic complication | Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled |
| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
| E118 | 25090 | Type 2 diabetes mellitus with unspecified complications | Diabetes with unspecified complication type II or unspecified type not stated as uncontrolled |
| E138 | 25090 | Other specified diabetes mellitus with unspecified complications | Diabetes with unspecified complication type II or unspecified type not stated as uncontrolled |
| E108 | 25091 | Type 1 diabetes mellitus with unspecified complications | Diabetes with unspecified complication type I [juvenile type] not stated as uncontrolled |
| E118 | 25092 | Type 2 diabetes mellitus with unspecified complications | Diabetes with unspecified complication type II or unspecified type uncontrolled |
| E108 | 25093 | Type 1 diabetes mellitus with unspecified complications | Diabetes with unspecified complication type I [juvenile type] uncontrolled |
| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
| E109 | 25001 | Type 1 diabetes mellitus without complications | Diabetes mellitus without mention of complication type I [juvenile type] not stated as uncontrolled |
| E119 | 25000 | Type 2 diabetes mellitus without complications | Diabetes mellitus without mention of complication type II or unspecified type not stated as uncontrolled |
| E139 | 25000 | Other specified diabetes mellitus without complications | Diabetes mellitus without mention of complication type II or unspecified type not stated as uncontrolled |
| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
| E0840 | 3572 | Diabetes mellitus due to underlying condition with diabetic neuropathy, unspecified | Polyneuropathy in diabetes |
| E0842 | 3572 | Diabetes mellitus due to underlying condition with diabetic polyneuropathy | Polyneuropathy in diabetes |
| E0940 | 3572 | Drug or chemical induced diabetes mellitus with neurological complications with diabetic neuropathy, | Polyneuropathy in diabetes |
| E0942 | 3572 | Drug or chemical induced diabetes mellitus with neurological complications with diabetic polyneuropathy | Polyneuropathy in diabetes |
| E1040 | 3572 | Type 1 diabetes mellitus with diabetic neuropathy, | Polyneuropathy in diabetes |
| E1042 | 3572 | Type 1 diabetes mellitus with diabetic polyneuropathy | Polyneuropathy in diabetes |
| E1140 | 3572 | Type 2 diabetes mellitus with diabetic neuropathy, | Polyneuropathy in diabetes |
| E1142 | 3572 | Type 2 diabetes mellitus with diabetic polyneuropathy | Polyneuropathy in diabetes |
| E1340 | 3572 | Other specified diabetes mellitus with diabetic neuropathy, unspecified | Polyneuropathy in diabetes |
| E1342 | 3572 | Other specified diabetes mellitus with diabetic | Polyneuropathy in diabetes |
| E0841 | 3559 | Diabetes mellitus due to underlying condition with diabetic mononeuropathy | Mononeuritis of unspecified site |
| E0941 | 3559 | Drug or chemical induced diabetes mellitus with neurological complications with diabetic mononeuropathy | Mononeuritis of unspecified site |
| E1041 | 3559 | Type 1 diabetes mellitus with diabetic mononeuropathy | Mononeuritis of unspecified site |
| E1141 | 3559 | Type 2 diabetes mellitus with diabetic mononeuropathy | Mononeuritis of unspecified site |
| E1341 | 3559 | Other specified diabetes mellitus with diabetic mononeuropathy | Mononeuritis of unspecified site |

Obesity

| | | | |
|-----------------|----------------|--|----------------------------------|
| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
| E6609 | 27800 | Other obesity due to excess calories | Obesity, unspecified |
| E661 | 27800 | Drug-induced obesity | Obesity, unspecified |
| E668 | 27800 | Other obesity | Obesity, unspecified |
| E669 | 27800 | Obesity, unspecified | Obesity, unspecified |
| E6601 | 27801 | Morbid (severe) obesity due to excess calories | Morbid obesity |
| Z6830 | V8530 | Body mass index (BMI) 30.0-30.9, adult | Body Mass Index 30.0-30.9, adult |
| Z6831 | V8531 | Body mass index (BMI) 31.0-31.9, adult | Body Mass Index 31.0-31.9, adult |
| Z6832 | V8532 | Body mass index (BMI) 32.0-32.9, adult | Body Mass Index 32.0-32.9, adult |
| Z6833 | V8533 | Body mass index (BMI) 33.0-33.9, adult | Body Mass Index 33.0-33.9, adult |

Appendix A
Dementia risk factors

| | | | |
|-------|-------|--|------------------------------------|
| Z6834 | V8534 | Body mass index (BMI) 34.0-34.9, adult | Body Mass Index 34.0-34.9, adult |
| Z6835 | V8535 | Body mass index (BMI) 35.0-35.9, adult | Body Mass Index 35.0-35.9, adult |
| Z6836 | V8536 | Body mass index (BMI) 36.0-36.9, adult | Body Mass Index 36.0-36.9, adult |
| Z6837 | V8537 | Body mass index (BMI) 37.0-37.9, adult | Body Mass Index 37.0-37.9, adult |
| Z6838 | V8538 | Body mass index (BMI) 38.0-38.9, adult | Body Mass Index 38.0-38.9, adult |
| Z6839 | V8539 | Body mass index (BMI) 39.0-39.9, adult | Body Mass Index 39.0-39.9, adult |
| Z6841 | V8541 | Body mass index (BMI) 40.0-44.9, adult | Body Mass Index 40.0-44.9, adult |
| Z6842 | V8542 | Body mass index (BMI) 45.0-49.9, adult | Body Mass Index 45.0-49.9, adult |
| Z6843 | V8543 | Body mass index (BMI) 50-59.9, adult | Body Mass Index 50.0-59.9, adult |
| Z6844 | V8544 | Body mass index (BMI) 60.0-69.9, adult | Body Mass Index 60.0-69.9, adult |
| Z6845 | V8545 | Body mass index (BMI) 70 or greater, adult | Body Mass Index 70 and over, adult |

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|----------------------|
| Prescriptions |
| Orlistat |
| Sibutramine |
| Phentermine |
| Benzphetamine |
| Phendimetrazine |
| Diethylpropion |

Hypertension

| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
|----------|---------|---|--|
| I10 | 4010 | Essential (primary) hypertension | Malignant essential hypertension |
| I10 | 4011 | Essential (primary) hypertension | Benign essential hypertension |
| I10 | 4019 | Essential (primary) hypertension | Unspecified essential hypertension |
| I160 | 4019 | Hypertensive urgency | Unspecified essential hypertension |
| I161 | 4019 | Hypertensive emergency | Unspecified essential hypertension |
| I169 | 4019 | Hypertensive crisis, unspecified | Unspecified essential hypertension |
| I119 | 40200 | Hypertensive heart disease without heart failure | Malignant hypertensive heart disease without heart failure |
| I110 | 40201 | Hypertensive heart disease with heart failure | Malignant hypertensive heart disease with heart failure |
| I119 | 40210 | Hypertensive heart disease without heart failure | Benign hypertensive heart disease without heart failure |
| I110 | 40211 | Hypertensive heart disease with heart failure | Benign hypertensive heart disease with heart failure |
| I119 | 40290 | Hypertensive heart disease without heart failure | Unspecified hypertensive heart disease without heart |
| I110 | 40291 | Hypertensive heart disease with heart failure | Unspecified hypertensive heart disease with heart failure |
| I129 | 40300 | Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease | Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified |
| I120 | 40301 | Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease | Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease |
| I129 | 40310 | Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease | Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified |
| I120 | 40311 | Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease | Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease |
| I129 | 40390 | Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease | Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified |
| I120 | 40391 | Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease | Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease |
| I1310 | 40400 | Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease | Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified |
| I130 | 40401 | Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease | Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified |
| I1311 | 40402 | Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease | Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease |
| I132 | 40403 | Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease | Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease |

Appendix A
Dementia risk factors

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|-------|-------|---|--|
| I1310 | 40410 | Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease | Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified |
| I130 | 40411 | Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease | Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified |
| I1311 | 40412 | Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease | Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage V or end stage renal disease |
| I132 | 40413 | Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease | Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease |
| I1310 | 40490 | Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease | Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified |
| I130 | 40491 | Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease | Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified |
| I1311 | 40492 | Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease | Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal disease |
| I132 | 40493 | Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease | Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease |
| I150 | 40501 | Renovascular hypertension | Malignant renovascular hypertension |
| I158 | 40509 | Other secondary hypertension | Other malignant secondary hypertension |
| I150 | 40511 | Renovascular hypertension | Benign renovascular hypertension |
| I158 | 40519 | Other secondary hypertension | Other benign secondary hypertension |
| I150 | 40591 | Renovascular hypertension | Unspecified renovascular hypertension |
| I151 | 40591 | Hypertension secondary to other renal disorders | Unspecified renovascular hypertension |
| N262 | 40591 | Page kidney | Unspecified renovascular hypertension |
| I152 | 40599 | Hypertension secondary to endocrine disorders | Other unspecified secondary hypertension |
| I158 | 40599 | Other secondary hypertension | Other unspecified secondary hypertension |
| I159 | 40599 | Secondary hypertension, unspecified | Other unspecified secondary hypertension |

Coronary artery disease

| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
|-----------------|----------------|---|---|
| I2109 | 41000 | ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall | Acute myocardial infarction of anterolateral wall, episode of care unspecified |
| I2109 | 41001 | ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall | Acute myocardial infarction of anterolateral wall, initial episode of care |
| I220 | 41001 | Subsequent ST elevation (STEMI) myocardial infarction of anterior wall | Acute myocardial infarction of anterolateral wall, initial episode of care |
| I2109 | 41002 | ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall | Acute myocardial infarction of anterolateral wall, subsequent episode of care |
| I2109 | 41010 | ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall | Acute myocardial infarction of other anterior wall, episode of care unspecified |
| I2101 | 41011 | ST elevation (STEMI) myocardial infarction involving left main coronary artery | Acute myocardial infarction of other anterior wall, initial episode of care |
| I2102 | 41011 | ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery | Acute myocardial infarction of other anterior wall, initial episode of care |
| I2109 | 41011 | ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall | Acute myocardial infarction of other anterior wall, initial episode of care |
| I220 | 41011 | Subsequent ST elevation (STEMI) myocardial infarction of anterior wall | Acute myocardial infarction of other anterior wall, initial episode of care |
| I2109 | 41012 | ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall | Acute myocardial infarction of other anterior wall, subsequent episode of care |
| I2119 | 41020 | ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall | Acute myocardial infarction of inferolateral wall, episode of care unspecified |
| I2119 | 41021 | ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall | Acute myocardial infarction of inferolateral wall, initial episode of care |

Appendix A
Dementia risk factors

| | | | |
|-----------------|----------------|---|---|
| I221 | 41021 | Subsequent ST elevation (STEMI) myocardial infarction of inferior wall | Acute myocardial infarction of inferolateral wall, initial episode of care |
| I2119 | 41022 | ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall | Acute myocardial infarction of inferolateral wall, subsequent episode of care |
| I2111 | 41030 | ST elevation (STEMI) myocardial infarction involving right coronary artery | Acute myocardial infarction of inferoposterior wall, episode of care unspecified |
| I2111 | 41031 | ST elevation (STEMI) myocardial infarction involving right coronary artery | Acute myocardial infarction of inferoposterior wall, initial episode of care |
| I221 | 41031 | Subsequent ST elevation (STEMI) myocardial infarction of inferior wall | Acute myocardial infarction of inferoposterior wall, initial episode of care |
| I2111 | 41032 | ST elevation (STEMI) myocardial infarction involving right coronary artery | Acute myocardial infarction of inferoposterior wall, subsequent episode of care |
| I2119 | 41040 | ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall | Acute myocardial infarction of other inferior wall, episode of care unspecified |
| I2119 | 41041 | ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall | Acute myocardial infarction of other inferior wall, initial episode of care |
| I221 | 41041 | Subsequent ST elevation (STEMI) myocardial infarction of inferior wall | Acute myocardial infarction of other inferior wall, initial episode of care |
| I2119 | 41042 | ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall | Acute myocardial infarction of other inferior wall, subsequent episode of care |
| I2129 | 41050 | ST elevation (STEMI) myocardial infarction involving other sites | Acute myocardial infarction of other lateral wall, episode of care unspecified |
| I2129 | 41051 | ST elevation (STEMI) myocardial infarction involving other sites | Acute myocardial infarction of other lateral wall, initial episode of care |
| I228 | 41051 | Subsequent ST elevation (STEMI) myocardial infarction of other sites | Acute myocardial infarction of other lateral wall, initial episode of care |
| I2129 | 41052 | ST elevation (STEMI) myocardial infarction involving other sites | Acute myocardial infarction of other lateral wall, subsequent episode of care |
| I2129 | 41060 | ST elevation (STEMI) myocardial infarction involving other sites | True posterior wall infarction, episode of care unspecified |
| I2129 | 41061 | ST elevation (STEMI) myocardial infarction involving other sites | True posterior wall infarction, initial episode of care |
| I228 | 41061 | Subsequent ST elevation (STEMI) myocardial infarction of other sites | True posterior wall infarction, initial episode of care |
| I2129 | 41062 | ST elevation (STEMI) myocardial infarction involving other sites | True posterior wall infarction, subsequent episode of care |
| I214 | 41070 | Non-ST elevation (NSTEMI) myocardial infarction | Subendocardial infarction, episode of care unspecified |
| I214 | 41071 | Non-ST elevation (NSTEMI) myocardial infarction | Subendocardial infarction, initial episode of care |
| I222 | 41071 | Subsequent non-ST elevation (NSTEMI) myocardial | Subendocardial infarction, initial episode of care |
| I214 | 41072 | Non-ST elevation (NSTEMI) myocardial infarction | Subendocardial infarction, subsequent episode of care |
| I2129 | 41080 | ST elevation (STEMI) myocardial infarction involving other sites | Acute myocardial infarction of other specified sites, episode of care unspecified |
| I2121 | 41081 | ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery | Acute myocardial infarction of other specified sites, initial episode of care |
| I2129 | 41081 | ST elevation (STEMI) myocardial infarction involving other sites | Acute myocardial infarction of other specified sites, initial episode of care |
| I228 | 41081 | Subsequent ST elevation (STEMI) myocardial infarction of other sites | Acute myocardial infarction of other specified sites, initial episode of care |
| I2129 | 41082 | ST elevation (STEMI) myocardial infarction involving other sites | Acute myocardial infarction of other specified sites, subsequent episode of care |
| I213 | 41090 | ST elevation (STEMI) myocardial infarction of unspecified site | Acute myocardial infarction of unspecified site, episode of care unspecified |
| I213 | 41091 | ST elevation (STEMI) myocardial infarction of unspecified site | Acute myocardial infarction of unspecified site, initial episode of care |
| I229 | 41091 | Subsequent ST elevation (STEMI) myocardial infarction of unspecified site | Acute myocardial infarction of unspecified site, initial episode of care |
| I213 | 41092 | ST elevation (STEMI) myocardial infarction of unspecified site | Acute myocardial infarction of unspecified site, subsequent episode of care |
| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
| I2510 | 41400 | Atherosclerotic heart disease of native coronary artery without angina pectoris | Coronary atherosclerosis of unspecified type of vessel, native or graft |

Appendix A
Dementia risk factors

| | | | |
|--------|-------|--|---|
| I2510 | 41401 | Atherosclerotic heart disease of native coronary artery without angina pectoris | Coronary atherosclerosis of native coronary artery |
| I25110 | 41401 | Atherosclerotic heart disease of native coronary artery with unstable angina pectoris | Coronary atherosclerosis of native coronary artery |
| I25111 | 41401 | Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm | Coronary atherosclerosis of native coronary artery |
| I25118 | 41401 | Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris | Coronary atherosclerosis of native coronary artery |
| I25119 | 41401 | Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris | Coronary atherosclerosis of native coronary artery |
| I25710 | 41402 | Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris | Coronary atherosclerosis of autologous vein bypass graft |
| I25711 | 41402 | Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm | Coronary atherosclerosis of autologous vein bypass graft |
| I25718 | 41402 | Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris | Coronary atherosclerosis of autologous vein bypass graft |
| I25719 | 41402 | Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris | Coronary atherosclerosis of autologous vein bypass graft |
| I25810 | 41402 | Atherosclerosis of coronary artery bypass graft(s) without angina pectoris | Coronary atherosclerosis of autologous vein bypass graft |
| I25730 | 41403 | Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris | Coronary atherosclerosis of nonautologous biological bypass graft |
| I25731 | 41403 | Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm | Coronary atherosclerosis of nonautologous biological bypass graft |
| I25738 | 41403 | Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris | Coronary atherosclerosis of nonautologous biological bypass graft |
| I25739 | 41403 | Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris | Coronary atherosclerosis of nonautologous biological bypass graft |
| I25810 | 41403 | Atherosclerosis of coronary artery bypass graft(s) without angina pectoris | Coronary atherosclerosis of nonautologous biological bypass graft |
| I25720 | 41404 | Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris | Coronary atherosclerosis of artery bypass graft |
| I25721 | 41404 | Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm | Coronary atherosclerosis of artery bypass graft |
| I25728 | 41404 | Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris | Coronary atherosclerosis of artery bypass graft |
| I25729 | 41404 | Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris | Coronary atherosclerosis of artery bypass graft |
| I25790 | 41404 | Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris | Coronary atherosclerosis of artery bypass graft |
| I25791 | 41404 | Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm | Coronary atherosclerosis of artery bypass graft |
| I25798 | 41404 | Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris | Coronary atherosclerosis of artery bypass graft |
| I25799 | 41404 | Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris | Coronary atherosclerosis of artery bypass graft |
| I25810 | 41404 | Atherosclerosis of coronary artery bypass graft(s) without angina pectoris | Coronary atherosclerosis of artery bypass graft |
| I25700 | 41405 | Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris | Coronary atherosclerosis of unspecified bypass graft |
| I25701 | 41405 | Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm | Coronary atherosclerosis of unspecified bypass graft |
| I25708 | 41405 | Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris | Coronary atherosclerosis of unspecified bypass graft |
| I25709 | 41405 | Atherosclerosis of coronary artery bypass graft(s), unspecified, with unspecified angina pectoris | Coronary atherosclerosis of unspecified bypass graft |
| I25790 | 41405 | Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris | Coronary atherosclerosis of unspecified bypass graft |
| I25791 | 41405 | Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm | Coronary atherosclerosis of unspecified bypass graft |
| I25798 | 41405 | Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris | Coronary atherosclerosis of unspecified bypass graft |

Appendix A
Dementia risk factors

| | | | |
|--------|-------|---|--|
| I25799 | 41405 | Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris | Coronary atherosclerosis of unspecified bypass graft |
| I25810 | 41405 | Atherosclerosis of coronary artery bypass graft(s) without angina pectoris | Coronary atherosclerosis of unspecified bypass graft |
| I25750 | 41406 | Atherosclerosis of native coronary artery of transplanted heart with unstable angina | Coronary atherosclerosis of native coronary artery of transplanted heart |
| I25751 | 41406 | Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm | Coronary atherosclerosis of native coronary artery of transplanted heart |
| I25758 | 41406 | Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris | Coronary atherosclerosis of native coronary artery of transplanted heart |
| I25759 | 41406 | Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris | Coronary atherosclerosis of native coronary artery of transplanted heart |
| I25811 | 41406 | Atherosclerosis of native coronary artery of transplanted heart without angina pectoris | Coronary atherosclerosis of native coronary artery of transplanted heart |
| I25760 | 41407 | Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina | Coronary atherosclerosis of bypass graft (artery) (vein) of transplanted heart |
| I25761 | 41407 | Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm | Coronary atherosclerosis of bypass graft (artery) (vein) of transplanted heart |
| I25768 | 41407 | Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris | Coronary atherosclerosis of bypass graft (artery) (vein) of transplanted heart |
| I25769 | 41407 | Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris | Coronary atherosclerosis of bypass graft (artery) (vein) of transplanted heart |
| I25812 | 41407 | Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris | Coronary atherosclerosis of bypass graft (artery) (vein) of transplanted heart |

Depression

| ICD10 Dx | ICD9 Dx | LongDesICD10 | LongDesICD9 |
|----------|---------|---|---|
| F0630 | 29383 | Mood disorder due to known physiological condition, unspecified | Mood disorder in conditions classified elsewhere |
| F0631 | 29383 | Mood disorder due to known physiological condition with depressive features | Mood disorder in conditions classified elsewhere |
| F0632 | 29383 | Mood disorder due to known physiological condition with major depressive-like episode | Mood disorder in conditions classified elsewhere |
| F0633 | 29383 | Mood disorder due to known physiological condition with manic features | Mood disorder in conditions classified elsewhere |
| F0634 | 29383 | Mood disorder due to known physiological condition with mixed features | Mood disorder in conditions classified elsewhere |
| F329 | 29620 | Major depressive disorder, single episode, unspecified | Major depressive affective disorder, single episode, |
| F320 | 29621 | Major depressive disorder, single episode, mild | Major depressive affective disorder, single episode, mild |
| F321 | 29622 | Major depressive disorder, single episode, moderate | Major depressive affective disorder, single episode, |
| F322 | 29623 | Major depressive disorder, single episode, severe without psychotic features | Major depressive affective disorder, single episode, severe, without mention of psychotic behavior |
| F323 | 29624 | Major depressive disorder, single episode, severe with psychotic features | Major depressive affective disorder, single episode, severe, specified as with psychotic behavior |
| F324 | 29625 | Major depressive disorder, single episode, in partial remission | Major depressive affective disorder, single episode, in partial or unspecified remission |
| F325 | 29626 | Major depressive disorder, single episode, in full remission | Major depressive affective disorder, single episode, in full remission |
| F3340 | 29630 | Major depressive disorder, recurrent, in remission, unspecified | Major depressive affective disorder, recurrent episode, unspecified |
| F339 | 29630 | Major depressive disorder, recurrent, unspecified | Major depressive affective disorder, recurrent episode, unspecified |
| F330 | 29631 | Major depressive disorder, recurrent, mild | Major depressive affective disorder, recurrent episode, mild |
| F331 | 29632 | Major depressive disorder, recurrent, moderate | Major depressive affective disorder, recurrent episode, moderate |
| F332 | 29633 | Major depressive disorder, recurrent severe without psychotic features | Major depressive affective disorder, recurrent episode, severe, without mention of psychotic behavior |
| F333 | 29634 | Major depressive disorder, recurrent, severe with psychotic symptoms | Major depressive affective disorder, recurrent episode, severe, specified as with psychotic behavior |
| F3341 | 29635 | Major depressive disorder, recurrent, in partial remission | Major depressive affective disorder, recurrent episode, in partial or unspecified remission |

Appendix A
Dementia risk factors

| | | | |
|-------|-------|---|---|
| F3342 | 29636 | Major depressive disorder, recurrent, in full remission | Major depressive affective disorder, recurrent episode, in full remission |
| F39 | 29690 | Unspecified mood [affective] disorder | Unspecified episodic mood disorder |
| F323 | 2980 | Major depressive disorder, single episode, severe with psychotic features | Depressive type psychosis |
| F333 | 2980 | Major depressive disorder, recurrent, severe with psychotic symptoms | Depressive type psychosis |
| F341 | 3004 | Dysthymic disorder | Dysthymic disorder |
| F4321 | 3090 | Adjustment disorder with depressed mood | Adjustment disorder with depressed mood |
| F4321 | 3091 | Adjustment disorder with depressed mood | Prolonged depressive reaction |
| F4323 | 30928 | Adjustment disorder with mixed anxiety and depressed | Adjustment disorder with mixed anxiety and depressed |
| F329 | 311 | Major depressive disorder, single episode, unspecified | Depressive disorder, not elsewhere classified |

Anxiety

| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
|----------|---------|--|---|
| F064 | 29384 | Anxiety disorder due to known physiological condition | Anxiety disorder in conditions classified elsewhere |
| F419 | 30000 | Anxiety disorder, unspecified | Anxiety state, unspecified |
| F410 | 30001 | Panic disorder [episodic paroxysmal anxiety] without agoraphobia | Panic disorder without agoraphobia |
| F411 | 30002 | Generalized anxiety disorder | Generalized anxiety disorder |
| F413 | 30009 | Other mixed anxiety disorders | Other anxiety states |
| F418 | 30009 | Other specified anxiety disorders | Other anxiety states |
| F409 | 30020 | Phobic anxiety disorder, unspecified | Phobia, unspecified |
| F4001 | 30021 | Agoraphobia with panic disorder | Agoraphobia with panic disorder |
| F4000 | 30022 | Agoraphobia, unspecified | Agoraphobia without mention of panic attacks |
| F4002 | 30022 | Agoraphobia without panic disorder | Agoraphobia without mention of panic attacks |
| F4010 | 30023 | Social phobia, unspecified | Social phobia |
| F4011 | 30023 | Social phobia, generalized | Social phobia |
| F40210 | 30029 | Arachnophobia | Other isolated or specific phobias |
| F40218 | 30029 | Other animal type phobia | Other isolated or specific phobias |
| F40220 | 30029 | Fear of thunderstorms | Other isolated or specific phobias |
| F40228 | 30029 | Other natural environment type phobia | Other isolated or specific phobias |
| F40230 | 30029 | Fear of blood | Other isolated or specific phobias |
| F40231 | 30029 | Fear of injections and transfusions | Other isolated or specific phobias |
| F40232 | 30029 | Fear of other medical care | Other isolated or specific phobias |
| F40233 | 30029 | Fear of injury | Other isolated or specific phobias |
| F40240 | 30029 | Claustrophobia | Other isolated or specific phobias |
| F40241 | 30029 | Acrophobia | Other isolated or specific phobias |
| F40242 | 30029 | Fear of bridges | Other isolated or specific phobias |
| F40243 | 30029 | Fear of flying | Other isolated or specific phobias |
| F40248 | 30029 | Other situational type phobia | Other isolated or specific phobias |
| F40290 | 30029 | Androphobia | Other isolated or specific phobias |
| F40291 | 30029 | Gynephobia | Other isolated or specific phobias |
| F40298 | 30029 | Other specified phobia | Other isolated or specific phobias |
| F408 | 30029 | Other phobic anxiety disorders | Other isolated or specific phobias |
| F422 | 3003 | Mixed obsessional thoughts and acts | Obsessive-compulsive disorders |
| F423 | 3003 | Hoarding disorder | Obsessive-compulsive disorders |
| F428 | 3003 | Other obsessive-compulsive disorder | Obsessive-compulsive disorders |
| F429 | 3003 | Obsessive-compulsive disorder, unspecified | Obsessive-compulsive disorders |
| F430 | 3080 | Acute stress reaction | Predominant disturbance of emotions |
| F4322 | 30924 | Adjustment disorder with anxiety | Adjustment disorder with anxiety |
| F4310 | 30981 | Post-traumatic stress disorder, unspecified | Posttraumatic stress disorder |
| F4311 | 30981 | Post-traumatic stress disorder, acute | Posttraumatic stress disorder |
| F4312 | 30981 | Post-traumatic stress disorder, chronic | Posttraumatic stress disorder |

Bipolar disorder

| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
|----------|---------|---|---|
| F3010 | 29600 | Manic episode without psychotic symptoms, unspecified | Bipolar I disorder, single manic episode, unspecified |
| F3011 | 29601 | Manic episode without psychotic symptoms, mild | Bipolar I disorder, single manic episode, mild |
| F3012 | 29602 | Manic episode without psychotic symptoms, moderate | Bipolar I disorder, single manic episode, moderate |
| F3013 | 29603 | Manic episode, severe, without psychotic symptoms | Bipolar I disorder, single manic episode, severe, without mention of psychotic behavior |

Appendix A
Dementia risk factors

| | | | |
|-------|-------|---|---|
| F302 | 29604 | Manic episode, severe with psychotic symptoms | Bipolar I disorder, single manic episode, severe, specified as with psychotic behavior |
| F303 | 29605 | Manic episode in partial remission | Bipolar I disorder, single manic episode, in partial or unspecified remission |
| F304 | 29606 | Manic episode in full remission | Bipolar I disorder, single manic episode, in full remission |
| F3110 | 29640 | Bipolar disorder, current episode manic without psychotic features, unspecified | Bipolar I disorder, most recent episode (or current) manic, unspecified |
| F3111 | 29641 | Bipolar disorder, current episode manic without psychotic features, mild | Bipolar I disorder, most recent episode (or current) manic, mild |
| F3112 | 29642 | Bipolar disorder, current episode manic without psychotic features, moderate | Bipolar I disorder, most recent episode (or current) manic, moderate |
| F3113 | 29643 | Bipolar disorder, current episode manic without psychotic features, severe | Bipolar I disorder, most recent episode (or current) manic, severe, without mention of psychotic behavior |
| F312 | 29644 | Bipolar disorder, current episode manic severe with psychotic features | Bipolar I disorder, most recent episode (or current) manic, severe, specified as with psychotic behavior |
| F3173 | 29645 | Bipolar disorder, in partial remission, most recent episode manic | Bipolar I disorder, most recent episode (or current) manic, in partial or unspecified remission |
| F3174 | 29646 | Bipolar disorder, in full remission, most recent episode manic | Bipolar I disorder, most recent episode (or current) manic, in full remission |
| F3130 | 29650 | Bipolar disorder, current episode depressed, mild or moderate severity, unspecified | Bipolar I disorder, most recent episode (or current) depressed, unspecified |
| F3131 | 29651 | Bipolar disorder, current episode depressed, mild | Bipolar I disorder, most recent episode (or current) depressed, mild |
| F3132 | 29652 | Bipolar disorder, current episode depressed, moderate | Bipolar I disorder, most recent episode (or current) depressed, moderate |
| F314 | 29653 | Bipolar disorder, current episode depressed, severe, without psychotic features | Bipolar I disorder, most recent episode (or current) depressed, severe, without mention of psychotic behavior |
| F315 | 29654 | Bipolar disorder, current episode depressed, severe, with psychotic features | Bipolar I disorder, most recent episode (or current) depressed, severe, specified as with psychotic behavior |
| F3175 | 29655 | Bipolar disorder, in partial remission, most recent episode depressed | Bipolar I disorder, most recent episode (or current) depressed, in partial or unspecified remission |
| F3176 | 29656 | Bipolar disorder, in full remission, most recent episode depressed | Bipolar I disorder, most recent episode (or current) depressed, in full remission |
| F3160 | 29660 | Bipolar disorder, current episode mixed, unspecified | Bipolar I disorder, most recent episode (or current) mixed, unspecified |
| F3161 | 29661 | Bipolar disorder, current episode mixed, mild | Bipolar I disorder, most recent episode (or current) mixed, mild |
| F3162 | 29662 | Bipolar disorder, current episode mixed, moderate | Bipolar I disorder, most recent episode (or current) mixed, moderate |
| F3163 | 29663 | Bipolar disorder, current episode mixed, severe, without psychotic features | Bipolar I disorder, most recent episode (or current) mixed, severe, without mention of psychotic behavior |
| F3164 | 29664 | Bipolar disorder, current episode mixed, severe, with psychotic features | Bipolar I disorder, most recent episode (or current) mixed, severe, specified as with psychotic behavior |
| F3177 | 29665 | Bipolar disorder, in partial remission, most recent episode mixed | Bipolar I disorder, most recent episode (or current) mixed, in partial or unspecified remission |
| F3178 | 29666 | Bipolar disorder, in full remission, most recent episode mixed | Bipolar I disorder, most recent episode (or current) mixed, in full remission |
| F319 | 29680 | Bipolar disorder, unspecified | Bipolar disorder, unspecified |
| F308 | 29681 | Other manic episodes | Atypical manic disorder |
| F3289 | 29682 | Other specified depressive episodes | Atypical depressive disorder |
| F3181 | 29689 | Bipolar II disorder | Other bipolar disorders |
| F3481 | 29699 | Disruptive mood dysregulation disorder | Other specified episodic mood disorder |
| F3489 | 29699 | Other specified persistent mood disorders | Other specified episodic mood disorder |
| F309 | 29600 | Manic episode, unspecified | Bipolar I disorder, single manic episode, unspecified |
| F3010 | 29610 | Manic episode without psychotic symptoms, unspecified | Manic affective disorder, recurrent episode, unspecified |
| F3011 | 29611 | Manic episode without psychotic symptoms, mild | Manic affective disorder, recurrent episode, mild |
| F3012 | 29612 | Manic episode without psychotic symptoms, moderate | Manic affective disorder, recurrent episode, moderate |
| F3013 | 29613 | Manic episode, severe, without psychotic symptoms | Manic affective disorder, recurrent episode, severe, without mention of psychotic behavior |
| F302 | 29614 | Manic episode, severe with psychotic symptoms | Manic affective disorder, recurrent episode, severe, specified as with psychotic behavior |
| F303 | 29615 | Manic episode in partial remission | Manic affective disorder, recurrent episode, in partial or unspecified remission |

Appendix A
Dementia risk factors

| | | | |
|-------|-------|---|---|
| F304 | 29616 | Manic episode in full remission | Manic affective disorder, recurrent episode, in full remission |
| F310 | 29640 | Bipolar disorder, current episode hypomanic | Bipolar I disorder, most recent episode (or current) manic, unspecified |
| F3189 | 29640 | Other bipolar disorder | Bipolar I disorder, most recent episode (or current) manic, unspecified |
| F3170 | 2967 | Bipolar disorder, currently in remission, most recent episode unspecified | Bipolar I disorder, most recent episode (or current) unspecified |
| F3171 | 2967 | Bipolar disorder, in partial remission, most recent episode hypomanic | Bipolar I disorder, most recent episode (or current) unspecified |
| F3172 | 2967 | Bipolar disorder, in full remission, most recent episode hypomanic | Bipolar I disorder, most recent episode (or current) unspecified |
| F319 | 2967 | Bipolar disorder, unspecified | Bipolar I disorder, most recent episode (or current) |
| F338 | 29699 | Other recurrent depressive disorders | Other specified episodic mood disorder |
| F349 | 29699 | Persistent mood [affective] disorder, unspecified | Other specified episodic mood disorder |

Schizophrenia

| ICD9 Dx | ICD10 Dx | LongDesiCD9 | LongDesiCD10 |
|---------------|---------------------|--|---------------------------------------|
| 295.00-295.05 | F20.89 | Simple type schizophrenia | Other schizophrenia |
| 295.10-295.15 | F20.1 | Disorganized type schizophrenia | Disorganized schizophrenia |
| 295.20-295.25 | F20.2 | Catatonic type schizophrenia | Catatonic schizophrenia |
| 295.30-295.35 | F20.0 | Paranoid type schizophrenia | Paranoid schizophrenia |
| 295.40-295.45 | F20.81 | Schizophreniform disorder | Schizophreniform disorder |
| 295.50-295.55 | F20.89 | Latent schizophrenia | Other schizophrenia |
| 295.60-295.65 | F20.5 | Schizophrenic disorders, residual type | Residual schizophrenia |
| 295.7 | F25.9 | Schizoaffective disorder, unspecified | Schizoaffective disorder, unspecified |
| 295.71-295.75 | F25.0, F25.1, F25.8 | Schizoaffective disorder | Schizoaffective disorders |
| 295.80-295.85 | F20.89 | Other specified types of schizophrenia | Other schizophrenia |
| 295.9 | F20.3 | Unspecified schizophrenia, unspecified | Undifferentiated schizophrenia |
| 295.91 | F20.9 | Unspecified schizophrenia, subchronic | Schizophrenia, unspecified |
| 295.92 | F20.9 | Unspecified schizophrenia, chronic | Schizophrenia, unspecified |
| 295.93 | F20.9 | Unspecified schizophrenia, subchronic with acute | Schizophrenia, unspecified |
| 295.94 | F20.9 | Unspecified schizophrenia, chronic with acute exacerbation | Schizophrenia, unspecified |
| 295.95 | F20.9 | Unspecified schizophrenia, in remission | Schizophrenia, unspecified |

Appendix A
Lifestyle factors and markers for healthy behavior

Smoking

| ICD10 Dx | ICD9 Dx | LongDesICD10 | LongDesICD9 |
|------------------|---------|---|---------------------------------|
| F17200 | 3051 | Nicotine dependence, unspecified, uncomplicated | Tobacco use disorder |
| F17201 | 3051 | Nicotine dependence, unspecified, in remission | Tobacco use disorder |
| F17210 | 3051 | Nicotine dependence, cigarettes, uncomplicated | Tobacco use disorder |
| F17211 | 3051 | Nicotine dependence, cigarettes, in remission | Tobacco use disorder |
| F17220 | 3051 | Nicotine dependence, chewing tobacco, uncomplicated | Tobacco use disorder |
| F17221 | 3051 | Nicotine dependence, chewing tobacco, in remission | Tobacco use disorder |
| F17290 | 3051 | Nicotine dependence, other tobacco product, uncomplicated | Tobacco use disorder |
| F17291 | 3051 | Nicotine dependence, other tobacco product, in remission | Tobacco use disorder |
| Z87891 | V1582 | Personal history of nicotine dependence | Personal history of tobacco use |
| CPT codes | | | |
| 99406 | | | |
| 99407 | | | |
| G0436 | | | |
| G0437 | | | |
| G9016 | | | |
| S9453 | | | |
| S4995 | | | |
| G9276 | | | |
| G9458 | | | |
| 1034F | | | |
| 4001F | | | |
| 4004F | | | |

OR dispensing of: At least one nicotine or varenicline prescription

Mammography

| |
|----------------------|
| CPT |
| 76082 |
| 76083 |
| 76092 |
| HCPCS |
| G0202 |
| G0203 |
| ICD10 Px code |
| Z12.31 |

Colonoscopy

| ICD10 Px | ICD9 Px | LongDesICD10 | LongDesICD9 |
|------------|---------|--|-------------|
| 0DJ08ZZ | 4523 | Inspection of Lower Intestinal Tract, Via Natural or Artificial Opening Endoscopic | Colonoscopy |
| CPT | | | |
| 45378 | | | |
| 45379 | | | |

Appendix A
Lifestyle factors and markers for healthy behavior

| |
|--------------|
| 45380 |
| 45381 |
| 45382 |
| 45383 |
| 45384 |
| 45385 |
| 45386 |
| 45387 |
| 45388 |
| 45389 |
| 45390 |
| 45391 |
| 45392 |
| HCPCS |
| G0105 |
| G0121 |

Fecal occult blood test

| |
|--------------|
| HCPCS |
| G0107 |
| G0328 |
| CPT |
| 82270 |
| 82274 |

Influenza vaccination

| ICD10 Dx | ICD9 Dx | LongDesICD10 | LongDesICD9 |
|--------------|---------|----------------------------|---|
| Z23 | V0481 | Encounter for immunization | Need for prophylactic vaccination and inoculation against influenza |
| Z23 | V066 | Encounter for immunization | Need for prophylactic vaccination and inoculation against streptococcus pneumoniae [pneumococcus] and influenza |
| CPT | | | |
| 90655 | | | |
| 90656 | | | |
| 90657 | | | |
| 90658 | | | |
| 90659 | | | |
| 90660 | | | |
| 90724 | | | |
| HCPCS | | | |
| G0008 | | | |

Pneumococcal vaccination

| ICD10 Dx | ICD9 Dx | LongDesICD10 | LongDesICD9 |
|------------|---------|----------------------------|--|
| Z23 | V0382 | Encounter for immunization | Other specified vaccinations against streptococcus pneumoniae [pneumococcus] |
| CPT | | | |
| 90669 | | | |

Appendix A
Lifestyle factors and markers for healthy behavior

| |
|-------|
| 90670 |
| 90732 |

Herpes zoster vaccination

| |
|------------|
| CPT |
| 90376 |
| 90750 |

BMD test

| |
|------------|
| CPT |
| 76070 |
| 76075 |
| 76076 |
| 76977 |
| 77080 |
| 77085 |

Appendix A

Healthcare utilization measures

Number of generic medications

NDC generic drug name has any value

If multiple events on a single day, the value is measured as combined values.

Number of ED visits

| HCPCS | | | | | |
|-------|-------|-------|-------|-------|-------|
| 99281 | 99282 | 99283 | 99284 | 99285 | 99288 |

Number of outpatient visits

| HCPCS | | | | | |
|-------|-------|-------|-------|-------|-------|
| 99201 | 99214 | 99272 | 99381 | 99392 | 99403 |
| 99202 | 99215 | 99273 | 99382 | 99393 | 99404 |
| 99203 | 99241 | 99274 | 99383 | 99394 | 99420 |
| 99204 | 99242 | 99275 | 99384 | 99395 | 99450 |
| 99205 | 99243 | 99354 | 99385 | 99396 | 99455 |
| 99211 | 99244 | 99355 | 99386 | 99397 | 99456 |
| 99212 | 99245 | 99356 | 99387 | 99401 | 99499 |
| 99213 | 99271 | 99357 | 99391 | 99402 | |

Number of hospitalizations

The occurrence of MEDPAR with the following attributes:

Inpatient admission type code exists

The occurrence of carrier claims with the following attributes:

20 = Non swing bed SNF claim

30 = Swing bed SNF claim

50 = Hospice claim

60 = Inpatient claim

61 = Inpatient 'full-encounter' claim

Number of PCP visits

The occurrence of carrier claims line with the following attributes:

Line HCFA provider specialty code is any of:

01 = General practice

08 = Family practice

11 = Internal medicine

84 = Preventive medicine (eff 5/92)

| HCPCS | | | | | |
|-------|-------|-------|-------|-------|-------|
| 99201 | 99214 | 99272 | 99381 | 99392 | 99403 |
| 99202 | 99215 | 99273 | 99382 | 99393 | 99404 |
| 99203 | 99241 | 99274 | 99383 | 99394 | 99420 |
| 99204 | 99242 | 99275 | 99384 | 99395 | 99429 |
| 99205 | 99243 | 99354 | 99385 | 99396 | 99450 |
| 99211 | 99244 | 99355 | 99386 | 99397 | 99455 |
| 99212 | 99245 | 99356 | 99387 | 99401 | 99456 |
| 99213 | 99271 | 99357 | 99391 | 99402 | 99499 |

Number of rheumatologist visits

The occurrence of carrier claims line with the following attributes:

Line HCFA provider specialty code is any of:

66 = Rheumatology (eff 5/92) Note: during 93/94 DMERC also used this to mean medical supply company with respiratory therapist

| HCPCS | | | | | |
|-------|-------|-------|-------|-------|-------|
| 99000 | 99141 | 99249 | 99347 | 99450 | 99603 |
| 99001 | 99142 | 99250 | 99348 | 99454 | 99604 |
| 99002 | 99143 | 99251 | 99349 | 99455 | 99605 |
| 99003 | 99144 | 99252 | 99345 | 99456 | 99606 |
| 99004 | 99145 | 99253 | 99350 | 99460 | 99607 |
| 99005 | 99148 | 99254 | 99351 | 99461 | 99615 |
| 99006 | 99149 | 99255 | 99352 | 99462 | 99649 |
| 99010 | 09915 | 99256 | 99353 | 99463 | 99675 |
| 99011 | 99150 | 99255 | 99354 | 99464 | 99684 |
| 99012 | 99160 | 99261 | 99355 | 99465 | 99700 |
| 99014 | 99163 | 99262 | 99356 | 99466 | 99703 |
| 99015 | 99166 | 99263 | 99357 | 99467 | 99707 |
| 99020 | 99170 | 99270 | 99358 | 99468 | 99713 |
| 99023 | 99171 | 99271 | 99359 | 99469 | 99714 |

Appendix A
Healthcare utilization measures

| | | | | | |
|-------|-------|-------|-------|-------|-------|
| 99024 | 99172 | 99272 | 9935D | 99470 | 99717 |
| 99025 | 99173 | 99273 | 99360 | 99471 | 99732 |
| 99026 | 99174 | 99274 | 99361 | 99472 | 99736 |
| 99027 | 99175 | 99275 | 99362 | 99475 | 99762 |
| 99028 | 99178 | 99280 | 99363 | 99476 | 99770 |
| 99032 | 99183 | 99281 | 99364 | 99477 | 99772 |
| 99035 | 99184 | 99282 | 99365 | 99478 | 99776 |
| 99038 | 99185 | 99283 | 99366 | 99479 | 99780 |
| 99039 | 99186 | 99284 | 99367 | 99480 | 99799 |
| 99040 | 99188 | 99285 | 99368 | 99481 | 9979A |
| 99041 | 99190 | 99286 | 99371 | 99482 | 99801 |
| 99042 | 99191 | 99287 | 99372 | 99485 | 99802 |
| 99045 | 99192 | 99288 | 99373 | 99486 | 99803 |
| 99047 | 99195 | 99289 | 99374 | 99487 | 99806 |
| 99048 | 99199 | 99290 | 99375 | 99488 | 99810 |
| 99049 | 99200 | 99291 | 99376 | 99489 | 99811 |
| 99050 | 99201 | 99292 | 99377 | 99490 | 99814 |
| 99051 | 99202 | 99293 | 99378 | 99495 | 99821 |
| 99052 | 99203 | 99294 | 99379 | 99496 | 99833 |
| 99053 | 99204 | 99295 | 99380 | 99497 | 99840 |
| 99054 | 99205 | 99296 | 99381 | 99498 | 99841 |
| 99056 | 99206 | 99297 | 99382 | 99499 | 99881 |
| 99058 | 99207 | 99298 | 99383 | 99500 | 99894 |
| 99060 | 99208 | 99299 | 99384 | 99501 | 99897 |
| 99063 | 99209 | 9930 | 99385 | 99502 | 99899 |
| 99065 | 9920A | 99300 | 99386 | 99503 | 99901 |
| 99070 | 9920X | 99301 | 99387 | 99504 | 99902 |
| 99071 | 09921 | 99302 | 99391 | 99505 | 99907 |
| 99072 | 99210 | 99303 | 99392 | 99506 | 99910 |
| 99074 | 99211 | 99304 | 99393 | 99507 | 99912 |
| 99075 | 99212 | 99305 | 99394 | 99508 | 99913 |
| 99076 | 99213 | 99306 | 99395 | 99509 | 99914 |
| 99078 | 99214 | 99307 | 99396 | 99510 | 99919 |
| 99079 | 99215 | 99308 | 99397 | 99511 | 99920 |
| 9907B | 99216 | 99309 | 99399 | 99512 | 99921 |
| 9907E | 99217 | 99310 | 99400 | 99513 | 99925 |
| 99080 | 99218 | 99311 | 99401 | 99514 | 99931 |
| 99081 | 99219 | 99312 | 99402 | 99523 | 99940 |
| 99082 | 9921F | 99313 | 99403 | 99530 | 99941 |
| 99089 | 9921G | 99315 | 99404 | 99539 | 99942 |
| 99090 | 9921S | 99316 | 99406 | 99551 | 99943 |
| 99091 | 99220 | 99317 | 99407 | 99552 | 99949 |
| 99097 | 99221 | 99318 | 99408 | 99553 | 99959 |
| 99099 | 99222 | 99321 | 99409 | 99554 | 99960 |
| 9905T | 99223 | 99322 | 9940A | 99555 | 99961 |
| 99100 | 99224 | 99323 | 99411 | 99556 | 99968 |
| 99101 | 99225 | 99324 | 99412 | 99557 | 99970 |
| 99102 | 99226 | 99325 | 99420 | 99558 | 99989 |
| 99104 | 99227 | 99326 | 99429 | 99559 | 09999 |
| 99110 | 99230 | 99327 | 9942G | 99560 | 99990 |
| 99111 | 99231 | 99328 | 99431 | 99561 | 99991 |
| 99112 | 99232 | 99331 | 99432 | 99562 | 99992 |
| 99113 | 99233 | 99332 | 99433 | 99563 | 99993 |
| 99115 | 99234 | 99333 | 99435 | 99564 | 99994 |
| 99116 | 99235 | 99334 | 99436 | 99565 | 99995 |
| 99119 | 99236 | 99335 | 99438 | 99566 | 99996 |
| 99120 | 99238 | 99336 | 99440 | 99567 | 99997 |
| 99121 | 99239 | 99337 | 99441 | 99568 | 99998 |
| 99123 | 99241 | 99339 | 99442 | 99569 | 99999 |
| 99124 | 99242 | 99340 | 99443 | 99580 | 9999G |
| 99125 | 99243 | 99341 | 99444 | 99588 | 9999V |
| 09913 | 99244 | 99342 | 99446 | 99593 | 99Z14 |
| 99135 | 99245 | 99343 | 99447 | 99600 | |
| 09914 | 99246 | 99344 | 99448 | 99601 | |
| 99140 | 99248 | 99345 | 99449 | 99602 | |

Number of CRP tests

CPT

Appendix A
Healthcare utilization measures

| | |
|-------|-------|
| 86140 | 86141 |
|-------|-------|

Number of serum creatinine tests

| CPT | |
|-------|-------|
| 80048 | 80054 |
| 80049 | 80069 |
| 80053 | 82565 |

Appendix A

Frailty markers

Frailty Score for Claims Data

[Kim DH, Schneeweiss S, Glynn RJ, Lipsitz LA, Rockwood K, Avorn J. Measuring frailty in Medicare data: Development and validation of a claims-based frailty index. Journals of Gerontology: Medical Sciences 2018;73\(7\):980-87.](#)

Codes used for each component of the frailty score

| Condition | ICD9 Dx | ICD10 Dx | Coefficient |
|--|---------|--|-------------|
| Intercept | | | 0.10288 |
| Intestinal infectious diseases | 001-009 | A00-A09 (exclude A02.1) | 0.00582 |
| Other and unspecified effects of external causes | 990-995 | A02.1, A22.7, A26.7, A32.7, A40, A41, A42.7, A45.8, B37.7, R65, T33, T34, T36-T50, T66-T78, T88 | 0.0085 |
| Other bacterial diseases | 030-041 | A30-A39; A42-A49 (exclude A32.7,A42.7,A45) | 0.01188 |
| Mycoses | 110-118 | B35-B49 (exclude B37.7) | 0.00831 |
| Malignant neoplasm of other and unspecified sites | 190-199 | C69-C80 | 0.00797 |
| Organic psychotic conditions | 290-294 | D01, D03, F02, F04, F05, F06, F10.159, F10.180, F10.181, F10.182, F10.188, F10.231, F10.239, F10.259, F10.27, F10.280, F10.281, F10.282, F10.288, F10.929, F10.950, F10.951, F10.959, F10.96, F10.980, F10.982, F10.99, F11.182, F11.282, F11.159, F11.181, F11.188, F11.222, F11.259, F11.281, F11.288, F11.922, F11.959, F11.981, F11.982, F11.988, F12.122, F12.159, F12.180, F12.188, F12.222, F12.259, F12.280, F12.288, F12.922, F12.959, F12.980, F12.988, F13.159, F13.180, F13.181, F13.182, F13.188, F13.259, F13.280, F13.281, F13.282, F13.288, F13.959, F13.980, F13.982, F13.988, F14.122, F14.159, F14.180, F14.181, F14.182, F14.188, F14.222, F14.259, F14.280, F14.281, F14.282, F14.288, F14.922, F14.959, F14.980, F14.981, F14.982, F14.988, F15.122, F15.159, F15.180, F15.181, F15.182, F15.188, F15.222, F15.259, F15.280, F15.281, F15.282, F15.288, F15.920, F15.922, F15.959, F15.980, F15.981, F15.982, F15.988, F16.122, F16.159, F16.180, F16.183, F16.188, F16.259, F16.280, F16.283, F16.288, F16.959, F16.980, F16.983, F16.988, F16.988, F17.208, F17.218, F17.228, F17.298, F18.159, F18.180, F18.188, F18.259, F18.280, F18.288, F18.959, F18.980, F18.988, F19.122, F19.159, F19.180, F19.181, F19.182, F19.188, F19.222, F19.259, F19.280, F19.281, F19.282, F19.921, F19.982, F19.939, F19.94, F19.950, F19.951, F19.96, F19.97, F19.99 | 0.04745 |
| Benign neoplasms | 210-229 | D10-D36 | -0.00513 |
| Neoplasms of uncertain behavior | 235-238 | D37-D48 | -0.00061 |
| Other and unspecified anemias | 285 | D62, D64 | 0.0085 |
| Purpura and other hemorrhagic conditions | 287 | D69 | -0.00804 |
| Diseases of white blood cells | 288 | D70, D71, D72, D76 | -0.0068 |
| Other metabolic and immunity disorders | 270-279 | D80-D84, D89, E65-E68, E70-E88, M10 (exclude E75.02, E75.19, E75.23, E75.25, E75.29, E75.4) | -0.00564 |
| Disorders of thyroid gland | 240-246 | E00-E07 | 0.00439 |
| Diseases of other endocrine glands | 250-259 | E08-E16,E20-E35 | 0.01078 |
| Hereditary and degenerative diseases of the central nervous system | 330-337 | E75.02, E75.19, E75.23, E75.25, E75.29, E75.4, F84.2, G10, G11, G12, G20, G21.0, G23, G24, G25, G30.9, G31, G80.3, G90, G91, G93.7, G93.89, G93.9, G94, G95, G99.2 | 0.01078 |

Appendix A
Frailty markers

| | | | |
|--|---------|--|----------|
| Neurotic Disorders, Personality Disorders, And Other Nonpsychotic Mental Disorders | 300-316 | F07, F09, F32.9, F40-F44, F48, F54, F60, F64-F66, F68, F10-F19, F45.8, F45.9, F50, F51, F63.3, F80-F82, F88-F91, F93-F95, F98, R45.1, R48.0 (exclude F10.159, F10.180, F10.181, F10.182, F10.188, F10.231, F10.239, F10.259, F10.27, F10.280, F10.281, F10.282, F10.288, F10.929, F10.950, F10.951, F10.959, F10.96, F10.980, F10.982, F10.99, F11.182, F11.282, F11.159, F11.181, F11.188, F11.222, F11.259, F11.281, F11.288, F11.922, F11.959, F11.981, F11.982, F11.988, F12.122, F12.159, F12.180, F12.188, F12.222, F12.259, F12.280, F12.288, F12.922, F12.959, F12.980, F12.988, F13.159, F13.180, F13.181, F13.182, F13.188, F13.259, F13.280, F13.281, F13.282, F13.288, F13.959, F13.980, F13.982, F13.988, F14.122, F14.159, F14.180, F14.181, F14.182, F14.188, F14.222, F14.259, F14.280, F14.281, F14.282, F14.288, F14.922, F14.959, F14.980, F14.981, F14.982, F14.988, F15.122, F15.159, F15.180, F15.181, F15.182, F15.188, F15.222, F15.259, F15.280, F15.281, F15.282, F15.288, F15.920, F15.922, F15.959, F15.980, F15.981, F15.982, F15.988, F16.122, F16.159, F16.180, F16.183, F16.188, F16.259, F16.280, F16.283, F16.288, F16.959, F16.980, F16.983, F16.988, F16.988, F17.208, F17.218, F17.228, F17.298, F18.159, F18.180, F18.188, F18.259, F18.280, F18.288, F18.959, F18.980, F18.988, F19.122, F19.159, F19.180, F19.181, F19.182, F19.188, F19.222, F19.259, F19.280, F19.281, F19.282, F19.921, F19.982, F19.939, F19.94, F19.950, F19.951, F19.96, F19.97, F19.99) | 0.01353 |
| Other psychoses | 295-299 | F20, F22-F25, F28-F34, F39, F44.89, F84 (exclude F84.2, F32.9) | 0.02112 |
| Other disorders of the central nervous system | 340-349 | G35, G37, G40, G43, G47.4, G80-G83, G92, G93.0-G93.2, G93.4-G93.6, G96-G97, G98.8 (exclusion G80.3) | 0.04031 |
| Disorders of the peripheral nervous system | 350-359 | G60-G65 | 0.00338 |
| Disorders of the eye and adnexa | 360-379 | H00-H59 (exclude H54.7) | -0.00061 |
| Hypertensive disease | 401-405 | I10-I16 | 0.0174 |
| Ischemic heart disease | 410-414 | I20-I25 | 0.0192 |
| Other forms of heart disease | 420-429 | I30-I52 | 0.01989 |
| Cerebrovascular disease | 430-438 | I60-I69 | -0.00046 |
| Diseases of arteries, arterioles, and capillaries | 440-448 | I70-I79 | 0.00106 |
| Diseases of veins and lymphatics, and other diseases of circulatory system | 451-459 | I80-I89;I95-I99 | 0.01234 |
| Pneumonia and influenza | 480-487 | J09-J18 | 0.01185 |
| Other diseases of the upper respiratory tract | 470-478 | J30-J39 | -0.0052 |
| Chronic obstructive pulmonary disease and allied conditions | 490-496 | J40-J45,J47,J67 | 0.01295 |
| Diseases of oral cavity, salivary glands, and jaws | 520-529 | K00-K14 | 0.00261 |
| Diseases of esophagus, stomach, and duodenum | 530-537 | K20-K31 | 0.0005 |
| Hernia of abdominal cavity | 550-553 | K40-K46 | 0.00388 |
| Infections of skin and subcutaneous tissue | 680-686 | L00-L08 | 0.00561 |
| Other inflammatory conditions | 690-698 | L10-L49, L51-L59 | -0.00053 |
| Arthropathies and related disorders | 710-719 | M00-M02, M04, M05-M09 M11-M14, M15-M19, M20-M25, M30-M36 (excluded M35.3) | 0.01408 |
| Rheumatism, excluding the back | 725-729 | M35.3, M60-M79,R25.2,R29.8x | 0.00021 |
| Dorsopathies | 720-724 | M40-M54 | 0.00984 |

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Frailty markers

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|--|---------|--|----------|
| Osteopathies, chondropathies, and acquired musculoskeletal deformities | 730-739 | M80-M85, M86-M90, M91-M95, M99 | 0.00389 |
| Nephritis, nephrotic syndrome, and nephrosis | 580-589 | N00-N05, N08,N17,N18, N25, N26,N27 | 0.01047 |
| Other diseases of urinary system | 590-599 | N30-N39 | 0.01062 |
| Diseases of male genital organs | 600-608 | N40-N53 | -0.02131 |
| Congenital anomalies in urinary system | 753 | Q60-Q64 | -0.00836 |
| Congenital anomalies in musculoskeletal system | 754-756 | Q65-Q79 | 0.00073 |
| Symptoms | 780-789 | R00-R39, R50-R63 (exclude R09.1, R09.2,R13,R25.2,R29.8,R51, R52) | 0.00593 |
| Ill-defined and unknown causes of morbidity and mortality | 797-799 | R09.1, R09.2,R41.8x,R68.13,R68.82, R64,R69,R99 | 0.01119 |
| Nonspecific abnormal findings | 790-796 | R70-R97 | -0.00231 |
| Contusion with intact skin surface | 920-924 | S00.93, S10.93, S00.10-S00.12, S05.10-S05.12, S05.90-S05.92, S20.00-S20.02, S20.20-S20.22, S30.0-S30.3, T14.8-T14.9, S40.01-S40.02, S50.0-S50.1, S60.0-S60.2, S70.0-S70.1, S80.0-S80.1, S90.0-S90.3 | 0.01074 |
| Open wound of lower limb | 890-897 | S81 | 0.02042 |
| Persons with a condition influencing their health status | V40-V49 | F48.9, F52.9, F69, F81.9, H54.7, H93.9x, J95.850, M96.0, R13.10, R43.9, R46.8x, R47.89, R68.89, Z48.22-Z48.298, Z66, Z73.82, Z74.0x, Z76.82, Z78.x, Z86.59, Z87.898, Z89.0x (excluding 789.52x), 790.x (excluding (Z90.41x, Z90.71x), 791.15, 791.83, 792.82, 793.x-795.x, 796.3x-Z96.9, 797.x-799.x (excluding 798.5x, 795.87x) | 0.00191 |
| Persons without reported diagnosis encountered during examination and investigation of individuals and populations | V70-V82 | Z00-Z13 | -0.01208 |
| Persons with potential health hazards related to communicable diseases | V01-V09 | Z20-Z29 | -0.00189 |
| Persons encountering health services for specific procedures and aftercare | V50-V59 | Z40-Z53, Z79 (exclude Z48.280, Z48.23, Z48.24, Z48.288, Z48.298 , Z48.22, Z48.290) | 0.00118 |

| Condition | CPT Code | Coefficient |
|---|-------------|-------------|
| Office/other outpatient visit – established patient | 99214 | 0.00149 |
| Hospital care – initial | 99222 | 0.0017 |
| Office consultation | 99242 | -0.00094 |
| Office consultation | 99245 | 0.00169 |
| Nursing facility care – subsequent | 99308 | 0.01389 |
| Preventive medicine services | 99381-99429 | -0.00712 |
| Anesthesia – head | 00100-00222 | -0.00049 |
| Anesthesia – neck | 00300-00352 | 0.00614 |
| Anesthesia – intrathoracic | 00500-00580 | -0.01568 |
| Anesthesia – lower abdomen | 00800-00882 | -0.01053 |
| Anesthesia – knee and popliteal area | 01320-01444 | -0.01215 |
| Surgery – respiratory system | 30000-32999 | -0.00129 |
| Surgery – female genital system | 56405-58999 | 0.00327 |
| Surgery – nervous system | 61000-64999 | 0.00843 |
| Radiology – nuclear medicine | 78000-79999 | -0.00301 |
| Therapeutic drug assays | 80150-80299 | 0.00789 |
| Cytopathology | 88104-88199 | -0.01082 |
| Surgical pathology | 88300-88399 | -0.00427 |

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Frailty markers

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|--|-------------|----------|
| Medicine – Ophthalmology | 92002-92499 | -0.00295 |
| Medicine – Cardiovascular | 92950-93799 | -0.00046 |
| Medicine – Noninvasive vascular diagnostic studies | 93875-93990 | -0.00828 |
| Allergy and clinical immunology | 95004-95199 | -0.0084 |
| Physical medicine and rehabilitation | 97001-97799 | -0.00012 |
| Chiropractic manipulative treatment | 98940-98943 | -0.01426 |
| Special services, procedures and reports | 99000-99091 | 0.00127 |

| Condition | HCPCS Code | Coefficient |
|---|---|-------------|
| Transportation services including ambulance | A0021-A0999 | 0.01022 |
| Other supplies including diabetes supplies and contraceptives | A4244-A4290 | 0.0236 |
| Diabetic footwear | A5500-A5513 | 0.02375 |
| Breathing aids | A7000-A7046 | 0.00947 |
| Administrative, miscellaneous and experimental | A9150-A9999 | -0.00167 |
| Walking aids and attachments | E0100-E0159 | 0.02821 |
| Hospital beds and associated supplies | E0250-E0373 | 0.08649 |
| Oxygen delivery systems and related supplies | E0424-E0486 | 0.00665 |
| Humidifiers and nebulizers with related equipment | E0550-E0601 | 0.00385 |
| Wheelchair or transport chair and related accessories | E0950-E1298, E2201-E2294, E2300-E2399, E2601-E2621 | 0.00805 |
| Accessories for oxygen delivery devices | E1353-E1406 | 0.02702 |
| Vaccine administration | G0008-G0010 | -0.00158 |
| Screening examinations and disease management training | G0101-G0124 | -0.01136 |
| Drugs, administered by injection | J0120-J7130 | 0.00664 |
| Inhalation solutions | J7608-J7684 | 0.00412 |
| Wheelchairs, components, and accessories | K0001-K0462, K0669 | 0.07802 |

Appendix A
Frailty markers

Osteoporosis

| ICD10 Dx | ICD9 Dx | LongDesiCD10 | LongDesiCD9 |
|----------|---------|--|---------------------------|
| M810 | 73300 | Age-related osteoporosis without current pathological fracture | Osteoporosis, unspecified |
| M810 | 73301 | Age-related osteoporosis without current pathological fracture | Senile osteoporosis |
| M818 | 73302 | Other osteoporosis without current pathological fracture | Idiopathic osteoporosis |
| M818 | 73303 | Other osteoporosis without current pathological fracture | Disuse osteoporosis |
| M816 | 73309 | Localized osteoporosis [Lequesne] | Other osteoporosis |
| M818 | 73309 | Other osteoporosis without current pathological fracture | Other osteoporosis |

Fractures

| ICD10 Dx | ICD9 Dx | LongDesiCD10 | LongDesiCD9 |
|----------|---------|--|--|
| M8440XA | 73310 | Pathological fracture, unspecified site, initial encounter for fracture | Pathologic fracture, unspecified site |
| M84429A | 73311 | Pathological fracture, unspecified humerus, initial encounter for fracture | Pathologic fracture of humerus |
| M84439A | 73312 | Pathological fracture, unspecified ulna and radius, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M4850XA | 73313 | Collapsed vertebra, not elsewhere classified, site unspecified, initial encounter for fracture | Pathologic fracture of vertebrae |
| M8008XA | 73313 | Age-related osteoporosis with current pathological fracture, vertebra(e), initial encounter for fracture | Pathologic fracture of vertebrae |
| M8468XA | 73313 | Pathological fracture in other disease, other site, initial encounter for fracture | Pathologic fracture of vertebrae |
| M84459A | 73314 | Pathological fracture, hip, unspecified, initial encounter for fracture | Pathologic fracture of neck of femur |
| M84453A | 73315 | Pathological fracture, unspecified femur, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84750A | 73315 | Atypical femoral fracture, unspecified, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84469A | 73316 | Pathological fracture, unspecified tibia and fibula, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84419A | 73319 | Pathological fracture, unspecified shoulder, initial encounter for fracture | Pathologic fracture of other specified site |
| M84479A | 73319 | Pathological fracture, unspecified toe(s), initial encounter for fracture | Pathologic fracture of other specified site |
| M8448XA | 73319 | Pathological fracture, other site, initial encounter for fracture | Pathologic fracture of other specified site |
| S020XXA | 80000 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull without mention of intracranial injury, unspecified state of consciousness |
| S020XXB | 80050 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull without mention of intracranial injury, unspecified state of consciousness |
| S02101A | 80100 | Fracture of base of skull, right side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S02102A | 80100 | Fracture of base of skull, left side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S02109A | 80100 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S02101B | 80150 | Fracture of base of skull, right side, initial encounter for open fracture | Open fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S02102B | 80150 | Fracture of base of skull, left side, initial encounter for open fracture | Open fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S02109B | 80150 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S022XXA | 8020 | Fracture of nasal bones, initial encounter for closed fracture | Closed fracture of nasal bones |
| S022XXB | 8021 | Fracture of nasal bones, initial encounter for open fracture | Open fracture of nasal bones |
| S02609A | 80220 | Fracture of mandible, unspecified, initial encounter for closed fracture | Closed fracture of mandible, unspecified site |
| S0269XA | 80220 | Fracture of mandible of other specified site, initial encounter for closed fracture | Closed fracture of mandible, unspecified site |

Appendix A
Frailty markers

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| S02610A | 80221 | Fracture of condylar process of mandible, unspecified side, initial encounter for closed fracture | Closed fracture of mandible, condylar process |
| S02611A | 80221 | Fracture of condylar process of right mandible, initial encounter for closed fracture | Closed fracture of mandible, condylar process |
| S02612A | 80221 | Fracture of condylar process of left mandible, initial encounter for closed fracture | Closed fracture of mandible, condylar process |
| S02620A | 80222 | Fracture of subcondylar process of mandible, unspecified side, initial encounter for closed fracture | Closed fracture of mandible, subcondylar |
| S02621A | 80222 | Fracture of subcondylar process of right mandible, initial encounter for closed fracture | Closed fracture of mandible, subcondylar |
| S02622A | 80222 | Fracture of subcondylar process of left mandible, initial encounter for closed fracture | Closed fracture of mandible, subcondylar |
| S02630A | 80223 | Fracture of coronoid process of mandible, unspecified side, initial encounter for closed fracture | Closed fracture of mandible, coronoid process |
| S02631A | 80223 | Fracture of coronoid process of right mandible, initial encounter for closed fracture | Closed fracture of mandible, coronoid process |
| S02632A | 80223 | Fracture of coronoid process of left mandible, initial encounter for closed fracture | Closed fracture of mandible, coronoid process |
| S02640A | 80224 | Fracture of ramus of mandible, unspecified side, initial encounter for closed fracture | Closed fracture of mandible, ramus, unspecified |
| S02641A | 80224 | Fracture of ramus of right mandible, initial encounter for closed fracture | Closed fracture of mandible, ramus, unspecified |
| S02642A | 80224 | Fracture of ramus of left mandible, initial encounter for closed fracture | Closed fracture of mandible, ramus, unspecified |
| S02650A | 80225 | Fracture of angle of mandible, unspecified side, initial encounter for closed fracture | Closed fracture of mandible, angle of jaw |
| S02651A | 80225 | Fracture of angle of right mandible, initial encounter for closed fracture | Closed fracture of mandible, angle of jaw |
| S02652A | 80225 | Fracture of angle of left mandible, initial encounter for closed fracture | Closed fracture of mandible, angle of jaw |
| S0266XA | 80226 | Fracture of symphysis of mandible, initial encounter for closed fracture | Closed fracture of mandible, symphysis of body |
| S02670A | 80227 | Fracture of alveolus of mandible, unspecified side, initial encounter for closed fracture | Closed fracture of mandible, alveolar border of body |
| S02671A | 80227 | Fracture of alveolus of right mandible, initial encounter for closed fracture | Closed fracture of mandible, alveolar border of body |
| S02672A | 80227 | Fracture of alveolus of left mandible, initial encounter for closed fracture | Closed fracture of mandible, alveolar border of body |
| S02600A | 80228 | Fracture of unspecified part of body of mandible, unspecified side, initial encounter for closed fracture | Closed fracture of mandible, body, other and unspecified |
| S02601A | 80228 | Fracture of unspecified part of body of right mandible, initial encounter for closed fracture | Closed fracture of mandible, body, other and unspecified |
| S02602A | 80228 | Fracture of unspecified part of body of left mandible, initial encounter for closed fracture | Closed fracture of mandible, body, other and unspecified |
| S02609B | 80230 | Fracture of mandible, unspecified, initial encounter for open fracture | Open fracture of mandible, unspecified site |
| S0269XB | 80230 | Fracture of mandible of other specified site, initial encounter for open fracture | Open fracture of mandible, unspecified site |
| S02610B | 80231 | Fracture of condylar process of mandible, unspecified side, initial encounter for open fracture | Open fracture of mandible, condylar process |
| S02611B | 80231 | Fracture of condylar process of right mandible, initial encounter for open fracture | Open fracture of mandible, condylar process |
| S02612B | 80231 | Fracture of condylar process of left mandible, initial encounter for open fracture | Open fracture of mandible, condylar process |
| S02620B | 80232 | Fracture of subcondylar process of mandible, unspecified side, initial encounter for open fracture | Open fracture of mandible, subcondylar |
| S02621B | 80232 | Fracture of subcondylar process of right mandible, initial encounter for open fracture | Open fracture of mandible, subcondylar |
| S02622B | 80232 | Fracture of subcondylar process of left mandible, initial encounter for open fracture | Open fracture of mandible, subcondylar |
| S02630B | 80233 | Fracture of coronoid process of mandible, unspecified side, initial encounter for open fracture | Open fracture of mandible, coronoid process |

Appendix A
Frailty markers

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|---------|-------|---|--|
| S02631B | 80233 | Fracture of coronoid process of right mandible, initial encounter for open fracture | Open fracture of mandible, coronoid process |
| S02632B | 80233 | Fracture of coronoid process of left mandible, initial encounter for open fracture | Open fracture of mandible, coronoid process |
| S02640B | 80234 | Fracture of ramus of mandible, unspecified side, initial encounter for open fracture | Open fracture of mandible, ramus, unspecified |
| S02641B | 80234 | Fracture of ramus of right mandible, initial encounter for open fracture | Open fracture of mandible, ramus, unspecified |
| S02642B | 80234 | Fracture of ramus of left mandible, initial encounter for open fracture | Open fracture of mandible, ramus, unspecified |
| S02650B | 80235 | Fracture of angle of mandible, unspecified side, initial encounter for open fracture | Open fracture of mandible, angle of jaw |
| S02651B | 80235 | Fracture of angle of right mandible, initial encounter for open fracture | Open fracture of mandible, angle of jaw |
| S02652B | 80235 | Fracture of angle of left mandible, initial encounter for open fracture | Open fracture of mandible, angle of jaw |
| S0266XB | 80236 | Fracture of symphysis of mandible, initial encounter for open fracture | Open fracture of mandible, symphysis of body |
| S02670B | 80237 | Fracture of alveolus of mandible, unspecified side, initial encounter for open fracture | Open fracture of mandible, alveolar border of body |
| S02671B | 80237 | Fracture of alveolus of right mandible, initial encounter for open fracture | Open fracture of mandible, alveolar border of body |
| S02672B | 80237 | Fracture of alveolus of left mandible, initial encounter for open fracture | Open fracture of mandible, alveolar border of body |
| S02600B | 80238 | Fracture of unspecified part of body of mandible, unspecified side, initial encounter for open fracture | Open fracture of mandible, body, other and unspecified |
| S02601B | 80238 | Fracture of unspecified part of body of right mandible, initial encounter for open fracture | Open fracture of mandible, body, other and unspecified |
| S02602B | 80238 | Fracture of unspecified part of body of left mandible, initial encounter for open fracture | Open fracture of mandible, body, other and unspecified |
| S02400A | 8024 | Malar fracture, unspecified side, initial encounter for closed fracture | Closed fracture of malar and maxillary bones |
| S02401A | 8024 | Maxillary fracture, unspecified side, initial encounter for closed fracture | Closed fracture of malar and maxillary bones |
| S02402A | 8024 | Zygomatic fracture, unspecified side, initial encounter for closed fracture | Closed fracture of malar and maxillary bones |
| S0240AA | 8024 | Malar fracture, right side, initial encounter for closed fracture | Closed fracture of malar and maxillary bones |
| S0240BA | 8024 | Malar fracture, left side, initial encounter for closed fracture | Closed fracture of malar and maxillary bones |
| S0240CA | 8024 | Maxillary fracture, right side, initial encounter for closed fracture | Closed fracture of malar and maxillary bones |
| S0240DA | 8024 | Maxillary fracture, left side, initial encounter for closed fracture | Closed fracture of malar and maxillary bones |
| S0240EA | 8024 | Zygomatic fracture, right side, initial encounter for closed fracture | Closed fracture of malar and maxillary bones |
| S0240FA | 8024 | Zygomatic fracture, left side, initial encounter for closed fracture | Closed fracture of malar and maxillary bones |
| S02400B | 8025 | Malar fracture, unspecified side, initial encounter for open fracture | Open fracture of malar and maxillary bones |
| S02401B | 8025 | Maxillary fracture, unspecified side, initial encounter for open fracture | Open fracture of malar and maxillary bones |
| S02402B | 8025 | Zygomatic fracture, unspecified side, initial encounter for open fracture | Open fracture of malar and maxillary bones |
| S0240AB | 8025 | Malar fracture, right side, initial encounter for open fracture | Open fracture of malar and maxillary bones |
| S0240BB | 8025 | Malar fracture, left side, initial encounter for open fracture | Open fracture of malar and maxillary bones |
| S0240CB | 8025 | Maxillary fracture, right side, initial encounter for open fracture | Open fracture of malar and maxillary bones |
| S0240DB | 8025 | Maxillary fracture, left side, initial encounter for open fracture | Open fracture of malar and maxillary bones |

Appendix A
Frailty markers

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|---------|-------|---|--|
| S0240EB | 8025 | Zygomatic fracture, right side, initial encounter for open fracture | Open fracture of malar and maxillary bones |
| S0240FB | 8025 | Zygomatic fracture, left side, initial encounter for open fracture | Open fracture of malar and maxillary bones |
| S0230XA | 8026 | Fracture of orbital floor, unspecified side, initial encounter for closed fracture | Closed fracture of orbital floor (blow-out) |
| S0231XA | 8026 | Fracture of orbital floor, right side, initial encounter for closed fracture | Closed fracture of orbital floor (blow-out) |
| S0232XA | 8026 | Fracture of orbital floor, left side, initial encounter for closed fracture | Closed fracture of orbital floor (blow-out) |
| S0230XB | 8027 | Fracture of orbital floor, unspecified side, initial encounter for open fracture | Open fracture of orbital floor (blow-out) |
| S0231XB | 8027 | Fracture of orbital floor, right side, initial encounter for open fracture | Open fracture of orbital floor (blow-out) |
| S0232XB | 8027 | Fracture of orbital floor, left side, initial encounter for open fracture | Open fracture of orbital floor (blow-out) |
| S0242XA | 8028 | Fracture of alveolus of maxilla, initial encounter for closed fracture | Closed fracture of other facial bones |
| S0292XA | 8028 | Unspecified fracture of facial bones, initial encounter for closed fracture | Closed fracture of other facial bones |
| S0242XB | 8029 | Fracture of alveolus of maxilla, initial encounter for open fracture | Open fracture of other facial bones |
| S0292XB | 8029 | Unspecified fracture of facial bones, initial encounter for open fracture | Open fracture of other facial bones |
| S0291XA | 80300 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture without mention of intracranial injury, unspecified state of consciousness |
| S0291XB | 80350 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture without mention of injury, unspecified state of consciousness |
| S129XXA | 80500 | Fracture of neck, unspecified, initial encounter | Closed fracture of cervical vertebra, unspecified level |
| S12000A | 80501 | Unspecified displaced fracture of first cervical vertebra, initial encounter for closed fracture | Closed fracture of first cervical vertebra |
| S12001A | 80501 | Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for closed fracture | Closed fracture of first cervical vertebra |
| S12100A | 80502 | Unspecified displaced fracture of second cervical vertebra, initial encounter for closed fracture | Closed fracture of second cervical vertebra |
| S12101A | 80502 | Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for closed fracture | Closed fracture of second cervical vertebra |
| S12200A | 80503 | Unspecified displaced fracture of third cervical vertebra, initial encounter for closed fracture | Closed fracture of third cervical vertebra |
| S12201A | 80503 | Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for closed fracture | Closed fracture of third cervical vertebra |
| S12300A | 80504 | Unspecified displaced fracture of fourth cervical vertebra, initial encounter for closed fracture | Closed fracture of fourth cervical vertebra |
| S12301A | 80504 | Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for closed fracture | Closed fracture of fourth cervical vertebra |
| S12400A | 80505 | Unspecified displaced fracture of fifth cervical vertebra, initial encounter for closed fracture | Closed fracture of fifth cervical vertebra |
| S12401A | 80505 | Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for closed fracture | Closed fracture of fifth cervical vertebra |
| S12500A | 80506 | Unspecified displaced fracture of sixth cervical vertebra, initial encounter for closed fracture | Closed fracture of sixth cervical vertebra |
| S12501A | 80506 | Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for closed fracture | Closed fracture of sixth cervical vertebra |
| S12600A | 80507 | Unspecified displaced fracture of seventh cervical vertebra, initial encounter for closed fracture | Closed fracture of seventh cervical vertebra |
| S12601A | 80507 | Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for closed fracture | Closed fracture of seventh cervical vertebra |
| S12000B | 80511 | Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture | Open fracture of first cervical vertebra |
| S12001B | 80511 | Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture | Open fracture of first cervical vertebra |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|---|
| S12100B | 80512 | Unspecified displaced fracture of second cervical vertebra, initial encounter for open fracture | Open fracture of second cervical vertebra |
| S12101B | 80512 | Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture | Open fracture of second cervical vertebra |
| S12200B | 80513 | Unspecified displaced fracture of third cervical vertebra, initial encounter for open fracture | Open fracture of third cervical vertebra |
| S12201B | 80513 | Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for open fracture | Open fracture of third cervical vertebra |
| S12300B | 80514 | Unspecified displaced fracture of fourth cervical vertebra, initial encounter for open fracture | Open fracture of fourth cervical vertebra |
| S12301B | 80514 | Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for open fracture | Open fracture of fourth cervical vertebra |
| S12400B | 80515 | Unspecified displaced fracture of fifth cervical vertebra, initial encounter for open fracture | Open fracture of fifth cervical vertebra |
| S12401B | 80515 | Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for open fracture | Open fracture of fifth cervical vertebra |
| S12500B | 80516 | Unspecified displaced fracture of sixth cervical vertebra, initial encounter for open fracture | Open fracture of sixth cervical vertebra |
| S12501B | 80516 | Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for open fracture | Open fracture of sixth cervical vertebra |
| S12600B | 80517 | Unspecified displaced fracture of seventh cervical vertebra, initial encounter for open fracture | Open fracture of seventh cervical vertebra |
| S12601B | 80517 | Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for open fracture | Open fracture of seventh cervical vertebra |
| S22009A | 8052 | Unspecified fracture of unspecified thoracic vertebra, initial encounter for closed fracture | Closed fracture of dorsal [thoracic] vertebra without mention of spinal cord injury |
| S22009B | 8053 | Unspecified fracture of unspecified thoracic vertebra, initial encounter for open fracture | Open fracture of dorsal [thoracic] vertebra without mention of spinal cord injury |
| S32009A | 8054 | Unspecified fracture of unspecified lumbar vertebra, initial encounter for closed fracture | Closed fracture of lumbar vertebra without mention of spinal cord injury |
| S32009B | 8055 | Unspecified fracture of unspecified lumbar vertebra, initial encounter for open fracture | Open fracture of lumbar vertebra without mention of spinal cord injury |
| S3210XA | 8056 | Unspecified fracture of sacrum, initial encounter for closed fracture | Closed fracture of sacrum and coccyx without mention of spinal cord injury |
| S322XXA | 8056 | Fracture of coccyx, initial encounter for closed fracture | Closed fracture of sacrum and coccyx without mention of spinal cord injury |
| S3210XB | 8057 | Unspecified fracture of sacrum, initial encounter for open fracture | Open fracture of sacrum and coccyx without mention of spinal cord injury |
| S322XXB | 8057 | Fracture of coccyx, initial encounter for open fracture | Open fracture of sacrum and coccyx without mention of spinal cord injury |
| S2239XA | 80700 | Fracture of one rib, unspecified side, initial encounter for closed fracture | Closed fracture of rib(s), unspecified |
| S2239XB | 80701 | Fracture of one rib, unspecified side, initial encounter for open fracture | Open fracture of one rib |
| S2249XA | 80702 | Multiple fractures of ribs, unspecified side, initial encounter for closed fracture | Closed fracture of two ribs |
| S2249XB | 80709 | Multiple fractures of ribs, unspecified side, initial encounter for open fracture | Open fracture of multiple ribs, unspecified |
| S2239XA | 80711 | Fracture of one rib, unspecified side, initial encounter for open fracture | Open fracture of one rib |
| S2249XA | 80712 | Multiple fractures of ribs, unspecified side, initial encounter for open fracture | Open fracture of two ribs |
| S2249XB | 80719 | Multiple fractures of ribs, unspecified side, initial encounter for open fracture | Open fracture of multiple ribs, unspecified |
| S2220XA | 8072 | Unspecified fracture of sternum, initial encounter for closed fracture | Closed fracture of sternum |
| S2220XB | 8073 | Unspecified fracture of sternum, initial encounter for open fracture | Open fracture of sternum |
| S225XXA | 8074 | Flail chest, initial encounter for closed fracture | Flail chest |
| S225XXB | 8074 | Flail chest, initial encounter for open fracture | Flail chest |
| S128XXA | 8075 | Fracture of other parts of neck, initial encounter | Closed fracture of larynx and trachea |

Appendix A
Frailty markers

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|---------|-------|---|--|
| S32409A | 8080 | Unspecified fracture of unspecified acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32409B | 8081 | Unspecified fracture of unspecified acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32501A | 8082 | Unspecified fracture of right pubis, initial encounter for closed fracture | Closed fracture of pubis |
| S32502A | 8082 | Unspecified fracture of left pubis, initial encounter for closed fracture | Closed fracture of pubis |
| S32509A | 8082 | Unspecified fracture of unspecified pubis, initial encounter for closed fracture | Closed fracture of pubis |
| S32501B | 8083 | Unspecified fracture of right pubis, initial encounter for open fracture | Open fracture of pubis |
| S32502B | 8083 | Unspecified fracture of left pubis, initial encounter for open fracture | Open fracture of pubis |
| S32509B | 8083 | Unspecified fracture of unspecified pubis, initial encounter for open fracture | Open fracture of pubis |
| S32309A | 80841 | Unspecified fracture of unspecified ilium, initial encounter for closed fracture | Closed fracture of ilium |
| S32609A | 80842 | Unspecified fracture of unspecified ischium, initial encounter for closed fracture | Closed fracture of ischium |
| S32810A | 80843 | Multiple fractures of pelvis with stable disruption of pelvic ring, initial encounter for closed fracture | Multiple closed pelvic fractures with disruption of pelvic circle |
| S32811A | 80843 | Multiple fractures of pelvis with unstable disruption of pelvic ring, initial encounter for closed fracture | Multiple closed pelvic fractures with disruption of pelvic circle |
| S3282XA | 80844 | Multiple fractures of pelvis without disruption of pelvic ring, initial encounter for closed fracture | Multiple closed pelvic fractures without disruption of pelvic circle |
| S3289XA | 80849 | Fracture of other parts of pelvis, initial encounter for closed fracture | Closed fracture of other specified part of pelvis |
| S32309B | 80851 | Unspecified fracture of unspecified ilium, initial encounter for open fracture | Open fracture of ilium |
| S32609B | 80852 | Unspecified fracture of unspecified ischium, initial encounter for open fracture | Open fracture of ischium |
| S32810B | 80853 | Multiple fractures of pelvis with stable disruption of pelvic ring, initial encounter for open fracture | Multiple open pelvic fractures with disruption of pelvic circle |
| S32811B | 80853 | Multiple fractures of pelvis with unstable disruption of pelvic ring, initial encounter for open fracture | Multiple open pelvic fractures with disruption of pelvic circle |
| S3282XB | 80854 | Multiple fractures of pelvis without disruption of pelvic ring, initial encounter for open fracture | Multiple open pelvic fractures without disruption of pelvic circle |
| S3289XB | 80859 | Fracture of other parts of pelvis, initial encounter for open fracture | Open fracture of other specified part of pelvis |
| S329XXA | 8088 | Fracture of unspecified parts of lumbosacral spine and pelvis, initial encounter for closed fracture | Closed unspecified fracture of pelvis |
| S329XXB | 8089 | Fracture of unspecified parts of lumbosacral spine and pelvis, initial encounter for open fracture | Open unspecified fracture of pelvis |
| S229XXA | 8090 | Fracture of bony thorax, part unspecified, initial encounter for closed fracture | Fracture of bones of trunk, closed |
| S229XXB | 8091 | Fracture of bony thorax, part unspecified, initial encounter for open fracture | Fracture of bones of trunk, open |
| S42009A | 81000 | Fracture of unspecified part of unspecified clavicle, initial encounter for closed fracture | Closed fracture of clavicle, unspecified part |
| S42013A | 81001 | Anterior displaced fracture of sternal end of unspecified clavicle, initial encounter for closed fracture | Closed fracture of sternal end of clavicle |
| S42016A | 81001 | Posterior displaced fracture of sternal end of unspecified clavicle, initial encounter for closed fracture | Closed fracture of sternal end of clavicle |
| S42019A | 81001 | Nondisplaced fracture of sternal end of unspecified clavicle, initial encounter for closed fracture | Closed fracture of sternal end of clavicle |
| S42023A | 81002 | Displaced fracture of shaft of unspecified clavicle, initial encounter for closed fracture | Closed fracture of shaft of clavicle |
| S42026A | 81002 | Nondisplaced fracture of shaft of unspecified clavicle, initial encounter for closed fracture | Closed fracture of shaft of clavicle |
| S42033A | 81003 | Displaced fracture of lateral end of unspecified clavicle, initial encounter for closed fracture | Closed fracture of acromial end of clavicle |

Appendix A
Frailty markers

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|---------|-------|---|---|
| S42036A | 81003 | Nondisplaced fracture of lateral end of unspecified clavicle, initial encounter for closed fracture | Closed fracture of acromial end of clavicle |
| S42009B | 81010 | Fracture of unspecified part of unspecified clavicle, initial encounter for open fracture | Open fracture of clavicle, unspecified part |
| S42013B | 81011 | Anterior displaced fracture of sternal end of unspecified clavicle, initial encounter for open fracture | Open fracture of sternal end of clavicle |
| S42016B | 81011 | Posterior displaced fracture of sternal end of unspecified clavicle, initial encounter for open fracture | Open fracture of sternal end of clavicle |
| S42019B | 81011 | Nondisplaced fracture of sternal end of unspecified clavicle, initial encounter for open fracture | Open fracture of sternal end of clavicle |
| S42023B | 81012 | Displaced fracture of shaft of unspecified clavicle, initial encounter for open fracture | Open fracture of shaft of clavicle |
| S42026B | 81012 | Nondisplaced fracture of shaft of unspecified clavicle, initial encounter for open fracture | Open fracture of shaft of clavicle |
| S42033B | 81013 | Displaced fracture of lateral end of unspecified clavicle, initial encounter for open fracture | Open fracture of acromial end of clavicle |
| S42036B | 81013 | Nondisplaced fracture of lateral end of unspecified clavicle, initial encounter for open fracture | Open fracture of acromial end of clavicle |
| S42109A | 81100 | Fracture of unspecified part of scapula, unspecified shoulder, initial encounter for closed fracture | Closed fracture of scapula, unspecified part |
| S42123A | 81101 | Displaced fracture of acromial process, unspecified shoulder, initial encounter for closed fracture | Closed fracture of acromial process of scapula |
| S42126A | 81101 | Nondisplaced fracture of acromial process, unspecified shoulder, initial encounter for closed fracture | Closed fracture of acromial process of scapula |
| S42133A | 81102 | Displaced fracture of coracoid process, unspecified shoulder, initial encounter for closed fracture | Closed fracture of coracoid process of scapula |
| S42136A | 81102 | Nondisplaced fracture of coracoid process, unspecified shoulder, initial encounter for closed fracture | Closed fracture of coracoid process of scapula |
| S42143A | 81103 | Displaced fracture of glenoid cavity of scapula, unspecified shoulder, initial encounter for closed fracture | Closed fracture of glenoid cavity and neck of scapula |
| S42146A | 81103 | Nondisplaced fracture of glenoid cavity of scapula, unspecified shoulder, initial encounter for closed fracture | Closed fracture of glenoid cavity and neck of scapula |
| S42153A | 81103 | Displaced fracture of neck of scapula, unspecified shoulder, initial encounter for closed fracture | Closed fracture of glenoid cavity and neck of scapula |
| S42156A | 81103 | Nondisplaced fracture of neck of scapula, unspecified shoulder, initial encounter for closed fracture | Closed fracture of glenoid cavity and neck of scapula |
| S42113A | 81109 | Displaced fracture of body of scapula, unspecified shoulder, initial encounter for closed fracture | Closed fracture of scapula, other |
| S42116A | 81109 | Nondisplaced fracture of body of scapula, unspecified shoulder, initial encounter for closed fracture | Closed fracture of scapula, other |
| S42199A | 81109 | Fracture of other part of scapula, unspecified shoulder, initial encounter for closed fracture | Closed fracture of scapula, other |
| S42109B | 81110 | Fracture of unspecified part of scapula, unspecified shoulder, initial encounter for open fracture | Open fracture of scapula, unspecified part |
| S42123B | 81111 | Displaced fracture of acromial process, unspecified shoulder, initial encounter for open fracture | Open fracture of acromial process of scapula |
| S42126B | 81111 | Nondisplaced fracture of acromial process, unspecified shoulder, initial encounter for open fracture | Open fracture of acromial process of scapula |
| S42133B | 81112 | Displaced fracture of coracoid process, unspecified shoulder, initial encounter for open fracture | Open fracture of coracoid process |
| S42136B | 81112 | Nondisplaced fracture of coracoid process, unspecified shoulder, initial encounter for open fracture | Open fracture of coracoid process |
| S42143B | 81113 | Displaced fracture of glenoid cavity of scapula, unspecified shoulder, initial encounter for open fracture | Open fracture of glenoid cavity and neck of scapula |
| S42146B | 81113 | Nondisplaced fracture of glenoid cavity of scapula, unspecified shoulder, initial encounter for open fracture | Open fracture of glenoid cavity and neck of scapula |
| S42153B | 81113 | Displaced fracture of neck of scapula, unspecified shoulder, initial encounter for open fracture | Open fracture of glenoid cavity and neck of scapula |
| S42156B | 81113 | Nondisplaced fracture of neck of scapula, unspecified shoulder, initial encounter for open fracture | Open fracture of glenoid cavity and neck of scapula |
| S42113B | 81119 | Displaced fracture of body of scapula, unspecified shoulder, initial encounter for open fracture | Open fracture of scapula, other |

Appendix A
Frailty markers

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|---------|-------|---|---|
| S42116B | 81119 | Nondisplaced fracture of body of scapula, unspecified shoulder, initial encounter for open fracture | Open fracture of scapula, other |
| S42199B | 81119 | Fracture of other part of scapula, unspecified shoulder, initial encounter for open fracture | Open fracture of scapula, other |
| S42209A | 81200 | Unspecified fracture of upper end of unspecified humerus, initial encounter for closed fracture | Closed fracture of unspecified part of upper end of humerus |
| S42213A | 81201 | Unspecified displaced fracture of surgical neck of unspecified humerus, initial encounter for closed fracture | Closed fracture of surgical neck of humerus |
| S42216A | 81201 | Unspecified nondisplaced fracture of surgical neck of unspecified humerus, initial encounter for closed fracture | Closed fracture of surgical neck of humerus |
| S42293A | 81202 | Other displaced fracture of upper end of unspecified humerus, initial encounter for closed fracture | Closed fracture of anatomical neck of humerus |
| S42295A | 81202 | Other nondisplaced fracture of upper end of left humerus, initial encounter for closed fracture | Closed fracture of anatomical neck of humerus |
| S42253A | 81203 | Displaced fracture of greater tuberosity of unspecified humerus, initial encounter for closed fracture | Closed fracture of greater tuberosity of humerus |
| S42256A | 81203 | Nondisplaced fracture of greater tuberosity of unspecified humerus, initial encounter for closed fracture | Closed fracture of greater tuberosity of humerus |
| S42293A | 81209 | Other displaced fracture of upper end of unspecified humerus, initial encounter for closed fracture | Other closed fracture of upper end of humerus |
| S42296A | 81209 | Other nondisplaced fracture of upper end of unspecified humerus, initial encounter for closed fracture | Other closed fracture of upper end of humerus |
| S42209B | 81210 | Unspecified fracture of upper end of unspecified humerus, initial encounter for open fracture | Open fracture of unspecified part of upper end of humerus |
| S42213B | 81211 | Unspecified displaced fracture of surgical neck of unspecified humerus, initial encounter for open fracture | Open fracture of surgical neck of humerus |
| S42216B | 81211 | Unspecified nondisplaced fracture of surgical neck of unspecified humerus, initial encounter for open fracture | Open fracture of surgical neck of humerus |
| S42293B | 81212 | Other displaced fracture of upper end of unspecified humerus, initial encounter for open fracture | Open fracture of anatomical neck of humerus |
| S42296B | 81212 | Other nondisplaced fracture of upper end of unspecified humerus, initial encounter for open fracture | Open fracture of anatomical neck of humerus |
| S42253B | 81213 | Displaced fracture of greater tuberosity of unspecified humerus, initial encounter for open fracture | Open fracture of greater tuberosity of humerus |
| S42256B | 81213 | Nondisplaced fracture of greater tuberosity of unspecified humerus, initial encounter for open fracture | Open fracture of greater tuberosity of humerus |
| S42293B | 81219 | Other displaced fracture of upper end of unspecified humerus, initial encounter for open fracture | Other open fracture of upper end of humerus |
| S42296B | 81219 | Other nondisplaced fracture of upper end of unspecified humerus, initial encounter for open fracture | Other open fracture of upper end of humerus |
| S42309A | 81220 | Unspecified fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture | Closed fracture of unspecified part of humerus |
| S42399A | 81221 | Other fracture of shaft of unspecified humerus, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42309B | 81230 | Unspecified fracture of shaft of humerus, unspecified arm, initial encounter for open fracture | Open fracture of unspecified part of humerus |
| S42399B | 81231 | Other fracture of shaft of unspecified humerus, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42409A | 81240 | Unspecified fracture of lower end of unspecified humerus, initial encounter for closed fracture | Closed fracture of unspecified part of lower end of humerus |
| S42413A | 81241 | Displaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for closed fracture | Closed supracondylar fracture of humerus |
| S42416A | 81241 | Nondisplaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for closed fracture | Closed supracondylar fracture of humerus |
| S42433A | 81242 | Displaced fracture (avulsion) of lateral epicondyle of unspecified humerus, initial encounter for closed fracture | Closed fracture of lateral condyle of humerus |
| S42436A | 81242 | Nondisplaced fracture (avulsion) of lateral epicondyle of unspecified humerus, initial encounter for closed fracture | Closed fracture of lateral condyle of humerus |
| S42453A | 81242 | Displaced fracture of lateral condyle of unspecified humerus, initial encounter for closed fracture | Closed fracture of lateral condyle of humerus |

Appendix A
Frailty markers

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|---------|-------|--|--|
| S42456A | 81242 | Nondisplaced fracture of lateral condyle of unspecified humerus, initial encounter for closed fracture | Closed fracture of lateral condyle of humerus |
| S42443A | 81243 | Displaced fracture (avulsion) of medial epicondyle of unspecified humerus, initial encounter for closed fracture | Closed fracture of medial condyle of humerus |
| S42446A | 81243 | Nondisplaced fracture (avulsion) of medial epicondyle of unspecified humerus, initial encounter for closed fracture | Closed fracture of medial condyle of humerus |
| S42463A | 81243 | Displaced fracture of medial condyle of unspecified humerus, initial encounter for closed fracture | Closed fracture of medial condyle of humerus |
| S42466A | 81243 | Nondisplaced fracture of medial condyle of unspecified humerus, initial encounter for closed fracture | Closed fracture of medial condyle of humerus |
| S42473A | 81244 | Displaced transcondylar fracture of unspecified humerus, initial encounter for closed fracture | Closed fracture of unspecified condyle(s) of humerus |
| S42476A | 81244 | Nondisplaced transcondylar fracture of unspecified humerus, initial encounter for closed fracture | Closed fracture of unspecified condyle(s) of humerus |
| S42493A | 81249 | Other displaced fracture of lower end of unspecified humerus, initial encounter for closed fracture | Other closed fracture of lower end of humerus |
| S42496A | 81249 | Other nondisplaced fracture of lower end of unspecified humerus, initial encounter for closed fracture | Other closed fracture of lower end of humerus |
| S42409B | 81250 | Unspecified fracture of lower end of unspecified humerus, initial encounter for open fracture | Open fracture of unspecified part of lower end of humerus |
| S42413B | 81251 | Displaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for open fracture | Open supracondylar fracture of humerus |
| S42416B | 81251 | Nondisplaced simple supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for open fracture | Open supracondylar fracture of humerus |
| S42453B | 81252 | Displaced fracture of lateral condyle of unspecified humerus, initial encounter for open fracture | Open fracture of lateral condyle of humerus |
| S42456B | 81252 | Nondisplaced fracture of lateral condyle of unspecified humerus, initial encounter for open fracture | Open fracture of lateral condyle of humerus |
| S42463B | 81253 | Displaced fracture of medial condyle of unspecified humerus, initial encounter for open fracture | Open fracture of medial condyle of humerus |
| S42466B | 81253 | Nondisplaced fracture of medial condyle of unspecified humerus, initial encounter for open fracture | Open fracture of medial condyle of humerus |
| S42473B | 81254 | Displaced transcondylar fracture of unspecified humerus, initial encounter for open fracture | Open fracture of unspecified condyle(s) of humerus |
| S42476B | 81254 | Nondisplaced transcondylar fracture of unspecified humerus, initial encounter for open fracture | Open fracture of unspecified condyle(s) of humerus |
| S42493B | 81259 | Other displaced fracture of lower end of unspecified humerus, initial encounter for open fracture | Other open fracture of lower end of humerus |
| S42496B | 81259 | Other nondisplaced fracture of lower end of unspecified humerus, initial encounter for open fracture | Other open fracture of lower end of humerus |
| S52023A | 81301 | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for closed fracture | Closed fracture of olecranon process of ulna |
| S52026A | 81301 | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for closed fracture | Closed fracture of olecranon process of ulna |
| S52043A | 81302 | Displaced fracture of coronoid process of unspecified ulna, initial encounter for closed fracture | Closed fracture of coronoid process of ulna |
| S52046A | 81302 | Nondisplaced fracture of coronoid process of unspecified ulna, initial encounter for closed fracture | Closed fracture of coronoid process of ulna |
| S52279A | 81303 | Monteggia's fracture of unspecified ulna, initial encounter for closed fracture | Closed Monteggia's fracture |
| S52009A | 81304 | Unspecified fracture of upper end of unspecified ulna, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of ulna (alone) |
| S52099A | 81304 | Other fracture of upper end of unspecified ulna, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of ulna (alone) |
| S52123A | 81305 | Displaced fracture of head of unspecified radius, initial encounter for closed fracture | Closed fracture of head of radius |
| S52126A | 81305 | Nondisplaced fracture of head of unspecified radius, initial encounter for closed fracture | Closed fracture of head of radius |

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Frailty markers

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|---------|-------|---|--|
| S52133A | 81306 | Displaced fracture of neck of unspecified radius, initial encounter for closed fracture | Closed fracture of neck of radius |
| S52136A | 81306 | Nondisplaced fracture of neck of unspecified radius, initial encounter for closed fracture | Closed fracture of neck of radius |
| S52109A | 81307 | Unspecified fracture of upper end of unspecified radius, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S52189A | 81307 | Other fracture of upper end of unspecified radius, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S59109A | 81307 | Unspecified physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S52023B | 81311 | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for open fracture type I or II | Open fracture of olecranon process of ulna |
| S52023C | 81311 | Displaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of olecranon process of ulna |
| S52026B | 81311 | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for open fracture type I or II | Open fracture of olecranon process of ulna |
| S52026C | 81311 | Nondisplaced fracture of olecranon process without intraarticular extension of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of olecranon process of ulna |
| S52043B | 81312 | Displaced fracture of coronoid process of unspecified ulna, initial encounter for open fracture type I or II | Open fracture of coronoid process of ulna |
| S52043C | 81312 | Displaced fracture of coronoid process of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of coronoid process of ulna |
| S52046B | 81312 | Nondisplaced fracture of coronoid process of unspecified ulna, initial encounter for open fracture type I or II | Open fracture of coronoid process of ulna |
| S52046C | 81312 | Nondisplaced fracture of coronoid process of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of coronoid process of ulna |
| S52279B | 81313 | Monteggia's fracture of unspecified ulna, initial encounter for open fracture type I or II | Open Monteggia's fracture |
| S52279C | 81313 | Monteggia's fracture of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open Monteggia's fracture |
| S52009B | 81314 | Unspecified fracture of upper end of unspecified ulna, initial encounter for open fracture type I or II | Other and unspecified open fractures of proximal end of ulna (alone) |
| S52009C | 81314 | Unspecified fracture of upper end of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other and unspecified open fractures of proximal end of ulna (alone) |
| S52099B | 81314 | Other fracture of upper end of unspecified ulna, initial encounter for open fracture type I or II | Other and unspecified open fractures of proximal end of ulna (alone) |
| S52099C | 81314 | Other fracture of upper end of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other and unspecified open fractures of proximal end of ulna (alone) |
| S52123B | 81315 | Displaced fracture of head of unspecified radius, initial encounter for open fracture type I or II | Open fracture of head of radius |
| S52123C | 81315 | Displaced fracture of head of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of head of radius |
| S52126B | 81315 | Nondisplaced fracture of head of unspecified radius, initial encounter for open fracture type I or II | Open fracture of head of radius |
| S52126C | 81315 | Nondisplaced fracture of head of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of head of radius |
| S52133B | 81316 | Displaced fracture of neck of unspecified radius, initial encounter for open fracture type I or II | Open fracture of neck of radius |
| S52133C | 81316 | Displaced fracture of neck of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of neck of radius |
| S52136B | 81316 | Nondisplaced fracture of neck of unspecified radius, initial encounter for open fracture type I or II | Open fracture of neck of radius |
| S52136C | 81316 | Nondisplaced fracture of neck of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of neck of radius |
| S52109B | 81317 | Unspecified fracture of upper end of unspecified radius, initial encounter for open fracture type I or II | Other and unspecified open fractures of proximal end of radius (alone) |

Appendix A
Frailty markers

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|---------|-------|---|--|
| S52109C | 81317 | Unspecified fracture of upper end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other and unspecified open fractures of proximal end of radius (alone) |
| S52189B | 81317 | Other fracture of upper end of unspecified radius, initial encounter for open fracture type I or II | Other and unspecified open fractures of proximal end of radius (alone) |
| S52189C | 81317 | Other fracture of upper end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other and unspecified open fractures of proximal end of radius (alone) |
| S52309A | 81321 | Unspecified fracture of shaft of unspecified radius, initial encounter for closed fracture | Closed fracture of shaft of radius (alone) |
| S52209A | 81322 | Unspecified fracture of shaft of unspecified ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52309B | 81331 | Unspecified fracture of shaft of unspecified radius, initial encounter for open fracture type I or II | Open fracture of shaft of radius (alone) |
| S52309C | 81331 | Unspecified fracture of shaft of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of radius (alone) |
| S52209B | 81332 | Unspecified fracture of shaft of unspecified ulna, initial encounter for open fracture type I or II | Open fracture of shaft of ulna (alone) |
| S52209C | 81332 | Unspecified fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of ulna (alone) |
| S52539A | 81341 | Colles' fracture of unspecified radius, initial encounter for closed fracture | Closed Colles' fracture |
| S52549A | 81341 | Smith's fracture of unspecified radius, initial encounter for closed fracture | Closed Colles' fracture |
| S52509A | 81342 | Unspecified fracture of the lower end of unspecified radius, initial encounter for closed fracture | Other closed fractures of distal end of radius (alone) |
| S52609A | 81343 | Unspecified fracture of lower end of unspecified ulna, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S52119A | 81345 | Torus fracture of upper end of unspecified radius, initial encounter for closed fracture | Torus fracture of radius (alone) |
| S52529A | 81345 | Torus fracture of lower end of unspecified radius, initial encounter for closed fracture | Torus fracture of radius (alone) |
| S52019A | 81346 | Torus fracture of upper end of unspecified ulna, initial encounter for closed fracture | Torus fracture of ulna (alone) |
| S52629A | 81346 | Torus fracture of lower end of unspecified ulna, initial encounter for closed fracture | Torus fracture of ulna (alone) |
| S52539B | 81351 | Colles' fracture of unspecified radius, initial encounter for open fracture type I or II | Open Colles' fracture |
| S52539C | 81351 | Colles' fracture of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open Colles' fracture |
| S52509B | 81352 | Unspecified fracture of the lower end of unspecified radius, initial encounter for open fracture type I or II | Other open fractures of distal end of radius (alone) |
| S52509C | 81352 | Unspecified fracture of the lower end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other open fractures of distal end of radius (alone) |
| S52609B | 81353 | Unspecified fracture of lower end of unspecified ulna, initial encounter for open fracture type I or II | Open fracture of distal end of ulna (alone) |
| S52609C | 81353 | Unspecified fracture of lower end of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of distal end of ulna (alone) |
| S5290XA | 81380 | Unspecified fracture of unspecified forearm, initial encounter for closed fracture | Closed fracture of unspecified part of forearm |
| S5290XB | 81390 | Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II | Open fracture of unspecified part of forearm |
| S5290XC | 81390 | Unspecified fracture of unspecified forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of unspecified part of forearm |
| S62109A | 81400 | Fracture of unspecified carpal bone, unspecified wrist, initial encounter for closed fracture | Closed fracture of carpal bone, unspecified |
| S62009A | 81401 | Unspecified fracture of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62123A | 81402 | Displaced fracture of lunate [semilunar], unspecified wrist, initial encounter for closed fracture | Closed fracture of lunate [semilunar] bone of wrist |
| S62126A | 81402 | Nondisplaced fracture of lunate [semilunar], unspecified wrist, initial encounter for closed fracture | Closed fracture of lunate [semilunar] bone of wrist |
| S62113A | 81403 | Displaced fracture of triquetrum [cuneiform] bone, unspecified wrist, initial encounter for closed fracture | Closed fracture of triquetrum [cuneiform] bone of wrist |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|--|
| S62116A | 81403 | Nondisplaced fracture of triquetrum [cuneiform] bone, unspecified wrist, initial encounter for closed fracture | Closed fracture of triquetral [cuneiform] bone of wrist |
| S62163A | 81404 | Displaced fracture of pisiform, unspecified wrist, initial encounter for closed fracture | Closed fracture of pisiform bone of wrist |
| S62166A | 81404 | Nondisplaced fracture of pisiform, unspecified wrist, initial encounter for closed fracture | Closed fracture of pisiform bone of wrist |
| S62173A | 81405 | Displaced fracture of trapezium [larger multangular], unspecified wrist, initial encounter for closed fracture | Closed fracture of trapezium bone [larger multangular] of wrist |
| S62176A | 81405 | Nondisplaced fracture of trapezium [larger multangular], unspecified wrist, initial encounter for closed fracture | Closed fracture of trapezium bone [larger multangular] of wrist |
| S62183A | 81406 | Displaced fracture of trapezoid [smaller multangular], unspecified wrist, initial encounter for closed fracture | Closed fracture of trapezoid bone [smaller multangular] of wrist |
| S62186A | 81406 | Nondisplaced fracture of trapezoid [smaller multangular], unspecified wrist, initial encounter for closed fracture | Closed fracture of trapezoid bone [smaller multangular] of wrist |
| S62133A | 81407 | Displaced fracture of capitate [os magnum] bone, unspecified wrist, initial encounter for closed fracture | Closed fracture of capitate bone [os magnum] of wrist |
| S62136A | 81407 | Nondisplaced fracture of capitate [os magnum] bone, unspecified wrist, initial encounter for closed fracture | Closed fracture of capitate bone [os magnum] of wrist |
| S62143A | 81408 | Displaced fracture of body of hamate [unciform] bone, unspecified wrist, initial encounter for closed fracture | Closed fracture of hamate [unciform] bone of wrist |
| S62146A | 81408 | Nondisplaced fracture of body of hamate [unciform] bone, unspecified wrist, initial encounter for closed fracture | Closed fracture of hamate [unciform] bone of wrist |
| S62153A | 81409 | Displaced fracture of hook process of hamate [unciform] bone, unspecified wrist, initial encounter for closed fracture | Closed fracture of other bone of wrist |
| S62156A | 81409 | Nondisplaced fracture of hook process of hamate [unciform] bone, unspecified wrist, initial encounter for closed fracture | Closed fracture of other bone of wrist |
| S62109B | 81410 | Fracture of unspecified carpal bone, unspecified wrist, initial encounter for open fracture | Open fracture of carpal bone, unspecified |
| S62009B | 81411 | Unspecified fracture of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62123B | 81412 | Displaced fracture of lunate [semilunar], unspecified wrist, initial encounter for open fracture | Open fracture of lunate [semilunar] bone of wrist |
| S62126B | 81412 | Nondisplaced fracture of lunate [semilunar], unspecified wrist, initial encounter for open fracture | Open fracture of lunate [semilunar] bone of wrist |
| S62113B | 81413 | Displaced fracture of triquetrum [cuneiform] bone, unspecified wrist, initial encounter for open fracture | Open fracture of triquetral [cuneiform] bone of wrist |
| S62116B | 81413 | Nondisplaced fracture of triquetrum [cuneiform] bone, unspecified wrist, initial encounter for open fracture | Open fracture of triquetral [cuneiform] bone of wrist |
| S62163B | 81414 | Displaced fracture of pisiform, unspecified wrist, initial encounter for open fracture | Open fracture of pisiform bone of wrist |
| S62166B | 81414 | Nondisplaced fracture of pisiform, unspecified wrist, initial encounter for open fracture | Open fracture of pisiform bone of wrist |
| S62173B | 81415 | Displaced fracture of trapezium [larger multangular], unspecified wrist, initial encounter for open fracture | Open fracture of trapezium bone [larger multangular] of wrist |
| S62176B | 81415 | Nondisplaced fracture of trapezium [larger multangular], unspecified wrist, initial encounter for open fracture | Open fracture of trapezium bone [larger multangular] of wrist |
| S62183B | 81416 | Displaced fracture of trapezoid [smaller multangular], unspecified wrist, initial encounter for open fracture | Open fracture of trapezoid bone [smaller multangular] of wrist |
| S62186B | 81416 | Nondisplaced fracture of trapezoid [smaller multangular], unspecified wrist, initial encounter for open fracture | Open fracture of trapezoid bone [smaller multangular] of wrist |
| S62133B | 81417 | Displaced fracture of capitate [os magnum] bone, unspecified wrist, initial encounter for open fracture | Open fracture of capitate bone [os magnum] of wrist |
| S62136B | 81417 | Nondisplaced fracture of capitate [os magnum] bone, unspecified wrist, initial encounter for open fracture | Open fracture of capitate bone [os magnum] of wrist |
| S62143B | 81418 | Displaced fracture of body of hamate [unciform] bone, unspecified wrist, initial encounter for open fracture | Open fracture of hamate [unciform] bone of wrist |
| S62146B | 81418 | Nondisplaced fracture of body of hamate [unciform] bone, unspecified wrist, initial encounter for open fracture | Open fracture of hamate [unciform] bone of wrist |
| S62153B | 81419 | Displaced fracture of hook process of hamate [unciform] bone, unspecified wrist, initial encounter for open fracture | Open fracture of other bone of wrist |
| S62156B | 81419 | Nondisplaced fracture of hook process of hamate [unciform] bone, unspecified wrist, initial encounter for open fracture | Open fracture of other bone of wrist |

Appendix A
Frailty markers

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|---------|-------|---|--|
| S62309A | 81500 | Unspecified fracture of unspecified metacarpal bone, initial encounter for closed fracture | Closed fracture of metacarpal bone(s), site unspecified |
| S62233A | 81501 | Other displaced fracture of base of first metacarpal bone, unspecified hand, initial encounter for closed fracture | Closed fracture of base of thumb [first] metacarpal |
| S62236A | 81501 | Other nondisplaced fracture of base of first metacarpal bone, unspecified hand, initial encounter for closed fracture | Closed fracture of base of thumb [first] metacarpal |
| S62319A | 81502 | Displaced fracture of base of unspecified metacarpal bone, initial encounter for closed fracture | Closed fracture of base of other metacarpal bone(s) |
| S62349A | 81502 | Nondisplaced fracture of base of unspecified metacarpal bone, initial encounter for closed fracture | Closed fracture of base of other metacarpal bone(s) |
| S62329A | 81503 | Displaced fracture of shaft of unspecified metacarpal bone, initial encounter for closed fracture | Closed fracture of shaft of metacarpal bone(s) |
| S62359A | 81503 | Nondisplaced fracture of shaft of unspecified metacarpal bone, initial encounter for closed fracture | Closed fracture of shaft of metacarpal bone(s) |
| S62339A | 81504 | Displaced fracture of neck of unspecified metacarpal bone, initial encounter for closed fracture | Closed fracture of neck of metacarpal bone(s) |
| S62369A | 81504 | Nondisplaced fracture of neck of unspecified metacarpal bone, initial encounter for closed fracture | Closed fracture of neck of metacarpal bone(s) |
| S62399A | 81509 | Other fracture of unspecified metacarpal bone, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62309B | 81510 | Unspecified fracture of unspecified metacarpal bone, initial encounter for open fracture | Open fracture of metacarpal bone(s), site unspecified |
| S62233B | 81511 | Other displaced fracture of base of first metacarpal bone, unspecified hand, initial encounter for open fracture | Open fracture of base of thumb [first] metacarpal |
| S62236B | 81511 | Other nondisplaced fracture of base of first metacarpal bone, unspecified hand, initial encounter for open fracture | Open fracture of base of thumb [first] metacarpal |
| S62319B | 81512 | Displaced fracture of base of unspecified metacarpal bone, initial encounter for open fracture | Open fracture of base of other metacarpal bone(s) |
| S62349B | 81512 | Nondisplaced fracture of base of unspecified metacarpal bone, initial encounter for open fracture | Open fracture of base of other metacarpal bone(s) |
| S62329B | 81513 | Displaced fracture of shaft of unspecified metacarpal bone, initial encounter for open fracture | Open fracture of shaft of metacarpal bone(s) |
| S62359B | 81513 | Nondisplaced fracture of shaft of unspecified metacarpal bone, initial encounter for open fracture | Open fracture of shaft of metacarpal bone(s) |
| S62339B | 81514 | Displaced fracture of neck of unspecified metacarpal bone, initial encounter for open fracture | Open fracture of neck of metacarpal bone(s) |
| S62369B | 81514 | Nondisplaced fracture of neck of unspecified metacarpal bone, initial encounter for open fracture | Open fracture of neck of metacarpal bone(s) |
| S62399B | 81519 | Other fracture of unspecified metacarpal bone, initial encounter for open fracture | Open fracture of multiple sites of metacarpus |
| S62509A | 81600 | Fracture of unspecified phalanx of unspecified thumb, initial encounter for closed fracture | Closed fracture of phalanx or phalanges of hand, unspecified |
| S62609A | 81600 | Fracture of unspecified phalanx of unspecified finger, initial encounter for closed fracture | Closed fracture of phalanx or phalanges of hand, unspecified |
| S62513A | 81601 | Displaced fracture of proximal phalanx of unspecified thumb, initial encounter for closed fracture | Closed fracture of middle or proximal phalanx or phalanges of hand |
| S62516A | 81601 | Nondisplaced fracture of proximal phalanx of unspecified thumb, initial encounter for closed fracture | Closed fracture of middle or proximal phalanx or phalanges of hand |
| S62629A | 81601 | Displaced fracture of medial phalanx of unspecified finger, initial encounter for closed fracture | Closed fracture of middle or proximal phalanx or phalanges of hand |
| S62649A | 81601 | Nondisplaced fracture of proximal phalanx of unspecified finger, initial encounter for closed fracture | Closed fracture of middle or proximal phalanx or phalanges of hand |
| S62659A | 81601 | Nondisplaced fracture of medial phalanx of unspecified finger, initial encounter for closed fracture | Closed fracture of middle or proximal phalanx or phalanges of hand |
| S62523A | 81602 | Displaced fracture of distal phalanx of unspecified thumb, initial encounter for closed fracture | Closed fracture of distal phalanx or phalanges of hand |
| S62526A | 81602 | Nondisplaced fracture of distal phalanx of unspecified thumb, initial encounter for closed fracture | Closed fracture of distal phalanx or phalanges of hand |
| S62639A | 81602 | Displaced fracture of distal phalanx of unspecified finger, initial encounter for closed fracture | Closed fracture of distal phalanx or phalanges of hand |
| S62669A | 81602 | Nondisplaced fracture of distal phalanx of unspecified finger, initial encounter for closed fracture | Closed fracture of distal phalanx or phalanges of hand |

Appendix A
Frailty markers

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|---------|-------|--|--|
| S6290XA | 81603 | Unspecified fracture of unspecified wrist and hand, initial encounter for closed fracture | Closed fracture of multiple sites of phalanx or phalanges of hand |
| S62509B | 81610 | Fracture of unspecified phalanx of unspecified thumb, initial encounter for open fracture | Open fracture of phalanx or phalanges of hand, unspecified |
| S62609B | 81610 | Fracture of unspecified phalanx of unspecified finger, initial encounter for open fracture | Open fracture of phalanx or phalanges of hand, unspecified |
| S62513B | 81611 | Displaced fracture of proximal phalanx of unspecified thumb, initial encounter for open fracture | Open fracture of middle or proximal phalanx or phalanges of hand |
| S62516B | 81611 | Nondisplaced fracture of proximal phalanx of unspecified thumb, initial encounter for open fracture | Open fracture of middle or proximal phalanx or phalanges of hand |
| S62619B | 81611 | Displaced fracture of proximal phalanx of unspecified finger, initial encounter for open fracture | Open fracture of middle or proximal phalanx or phalanges of hand |
| S62629B | 81611 | Displaced fracture of medial phalanx of unspecified finger, initial encounter for open fracture | Open fracture of middle or proximal phalanx or phalanges of hand |
| S62649B | 81611 | Nondisplaced fracture of proximal phalanx of unspecified finger, initial encounter for open fracture | Open fracture of middle or proximal phalanx or phalanges of hand |
| S62659B | 81611 | Nondisplaced fracture of medial phalanx of unspecified finger, initial encounter for open fracture | Open fracture of middle or proximal phalanx or phalanges of hand |
| S62523B | 81612 | Displaced fracture of distal phalanx of unspecified thumb, initial encounter for open fracture | Open fracture of distal phalanx or phalanges of hand |
| S62526B | 81612 | Nondisplaced fracture of distal phalanx of unspecified thumb, initial encounter for open fracture | Open fracture of distal phalanx or phalanges of hand |
| S62639B | 81612 | Displaced fracture of distal phalanx of unspecified finger, initial encounter for open fracture | Open fracture of distal phalanx or phalanges of hand |
| S62669B | 81612 | Nondisplaced fracture of distal phalanx of unspecified finger, initial encounter for open fracture | Open fracture of distal phalanx or phalanges of hand |
| S6290XA | 8170 | Unspecified fracture of unspecified wrist and hand, initial encounter for closed fracture | Multiple closed fractures of hand bones |
| S6290XB | 8181 | Unspecified fracture of unspecified wrist and hand, initial encounter for open fracture | Ill-defined open fractures of upper limb |
| S72019A | 82000 | Unspecified intracapsular fracture of unspecified femur, initial encounter for closed fracture | Closed fracture of intracapsular section of neck of femur, unspecified |
| S72023A | 82001 | Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for closed fracture | Closed fracture of epiphysis (separation) (upper) of neck of femur |
| S72026A | 82001 | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for closed fracture | Closed fracture of epiphysis (separation) (upper) of neck of femur |
| S72033A | 82002 | Displaced midcervical fracture of unspecified femur, initial encounter for closed fracture | Closed fracture of midcervical section of neck of femur |
| S72036A | 82002 | Nondisplaced midcervical fracture of unspecified femur, initial encounter for closed fracture | Closed fracture of midcervical section of neck of femur |
| S72043A | 82003 | Displaced fracture of base of neck of unspecified femur, initial encounter for closed fracture | Closed fracture of base of neck of femur |
| S72046A | 82003 | Nondisplaced fracture of base of neck of unspecified femur, initial encounter for closed fracture | Closed fracture of base of neck of femur |
| S72099A | 82009 | Other fracture of head and neck of unspecified femur, initial encounter for closed fracture | Other closed transcervical fracture of neck of femur |
| S72019B | 82010 | Unspecified intracapsular fracture of unspecified femur, initial encounter for open fracture type I or II | Open fracture of intracapsular section of neck of femur, unspecified |
| S72019C | 82010 | Unspecified intracapsular fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of intracapsular section of neck of femur, unspecified |
| S72023B | 82011 | Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type I or II | Open fracture of epiphysis (separation) (upper) of neck of femur |
| S72023C | 82011 | Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of epiphysis (separation) (upper) of neck of femur |
| S72026B | 82011 | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type I or II | Open fracture of epiphysis (separation) (upper) of neck of femur |
| S72026C | 82011 | Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of epiphysis (separation) (upper) of neck of femur |

Appendix A
Frailty markers

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|---------|-------|--|---|
| S72033B | 82012 | Displaced midcervical fracture of unspecified femur, initial encounter for open fracture type I or II | Open fracture of midcervical section of neck of femur |
| S72033C | 82012 | Displaced midcervical fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of midcervical section of neck of femur |
| S72036B | 82012 | Nondisplaced midcervical fracture of unspecified femur, initial encounter for open fracture type I or II | Open fracture of midcervical section of neck of femur |
| S72036C | 82012 | Nondisplaced midcervical fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of midcervical section of neck of femur |
| S72043B | 82013 | Displaced fracture of base of neck of unspecified femur, initial encounter for open fracture type I or II | Open fracture of base of neck of femur |
| S72043C | 82013 | Displaced fracture of base of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of base of neck of femur |
| S72046B | 82013 | Nondisplaced fracture of base of neck of unspecified femur, initial encounter for open fracture type I or II | Open fracture of base of neck of femur |
| S72046C | 82013 | Nondisplaced fracture of base of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of base of neck of femur |
| S72099B | 82019 | Other fracture of head and neck of unspecified femur, initial encounter for open fracture type I or II | Other open transcervical fracture of neck of femur |
| S72099C | 82019 | Other fracture of head and neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other open transcervical fracture of neck of femur |
| S72109A | 82020 | Unspecified trochanteric fracture of unspecified femur, initial encounter for closed fracture | Closed fracture of trochanteric section of neck of femur |
| S72143A | 82021 | Displaced intertrochanteric fracture of unspecified femur, initial encounter for closed fracture | Closed fracture of intertrochanteric section of neck of femur |
| S72146A | 82021 | Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for closed fracture | Closed fracture of intertrochanteric section of neck of femur |
| S7223XA | 82022 | Displaced subtrochanteric fracture of unspecified femur, initial encounter for closed fracture | Closed fracture of subtrochanteric section of neck of femur |
| S7226XA | 82022 | Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for closed fracture | Closed fracture of subtrochanteric section of neck of femur |
| S72109B | 82030 | Unspecified trochanteric fracture of unspecified femur, initial encounter for open fracture type I or II | Open fracture of trochanteric section of neck of femur, unspecified |
| S72109C | 82030 | Unspecified trochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of trochanteric section of neck of femur, unspecified |
| S72143B | 82031 | Displaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II | Open fracture of intertrochanteric section of neck of femur |
| S72143C | 82031 | Displaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of intertrochanteric section of neck of femur |
| S72146B | 82031 | Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II | Open fracture of intertrochanteric section of neck of femur |
| S72146C | 82031 | Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of intertrochanteric section of neck of femur |
| S7223XB | 82032 | Displaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II | Open fracture of subtrochanteric section of neck of femur |
| S7223XC | 82032 | Displaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of subtrochanteric section of neck of femur |
| S7226XB | 82032 | Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II | Open fracture of subtrochanteric section of neck of femur |
| S7226XC | 82032 | Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of subtrochanteric section of neck of femur |
| S72009A | 8208 | Fracture of unspecified part of neck of unspecified femur, initial encounter for closed fracture | Closed fracture of unspecified part of neck of femur |
| S72009B | 8209 | Fracture of unspecified part of neck of unspecified femur, initial encounter for open fracture type I or II | Open fracture of unspecified part of neck of femur |
| S72009C | 8209 | Fracture of unspecified part of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of unspecified part of neck of femur |
| S7290XA | 82100 | Unspecified fracture of unspecified femur, initial encounter for closed fracture | Closed fracture of unspecified part of femur |
| S72309A | 82101 | Unspecified fracture of shaft of unspecified femur, initial encounter for closed fracture | Closed fracture of shaft of femur |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|---|
| S7290XB | 82110 | Unspecified fracture of unspecified femur, initial encounter for open fracture type I or II | Open fracture of unspecified part of femur |
| S7290XC | 82110 | Unspecified fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of unspecified part of femur |
| S72309B | 82111 | Unspecified fracture of shaft of unspecified femur, initial encounter for open fracture type I or II | Open fracture of shaft of femur |
| S72309C | 82111 | Unspecified fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of femur |
| S72409A | 82120 | Unspecified fracture of lower end of unspecified femur, initial encounter for closed fracture | Closed fracture of lower end of femur, unspecified part |
| S72413A | 82121 | Displaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for closed fracture | Closed fracture of condyle, femoral |
| S72416A | 82121 | Nondisplaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for closed fracture | Closed fracture of condyle, femoral |
| S72443A | 82122 | Displaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for closed fracture | Closed fracture of epiphysis, lower (separation) of femur |
| S72446A | 82122 | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for closed fracture | Closed fracture of epiphysis, lower (separation) of femur |
| S72453A | 82123 | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for closed fracture | Closed supracondylar fracture of femur |
| S72456A | 82123 | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for closed fracture | Closed supracondylar fracture of femur |
| S72499A | 82129 | Other fracture of lower end of unspecified femur, initial encounter for closed fracture | Other closed fracture of lower end of femur |
| S72409B | 82130 | Unspecified fracture of lower end of unspecified femur, initial encounter for open fracture type I or II | Open fracture of lower end of femur, unspecified part |
| S72409C | 82130 | Unspecified fracture of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of lower end of femur, unspecified part |
| S72413B | 82131 | Displaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for open fracture type I or II | Open fracture of condyle, femoral |
| S72413C | 82131 | Displaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of condyle, femoral |
| S72416B | 82131 | Nondisplaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for open fracture type I or II | Open fracture of condyle, femoral |
| S72416C | 82131 | Nondisplaced unspecified condyle fracture of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of condyle, femoral |
| S72443B | 82132 | Displaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for open fracture type I or II | Open fracture of epiphysis. Lower (separation) of femur |
| S72443C | 82132 | Displaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of epiphysis. Lower (separation) of femur |
| S72446B | 82132 | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for open fracture type I or II | Open fracture of epiphysis. Lower (separation) of femur |
| S72446C | 82132 | Nondisplaced fracture of lower epiphysis (separation) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of epiphysis. Lower (separation) of femur |
| S72453B | 82133 | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type I or II | Open supracondylar fracture of femur |
| S72453C | 82133 | Displaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open supracondylar fracture of femur |

Appendix A
Frailty markers

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|---------|-------|---|---|
| S72456B | 82133 | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type I or II | Open supracondylar fracture of femur |
| S72456C | 82133 | Nondisplaced supracondylar fracture without intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open supracondylar fracture of femur |
| S72499B | 82139 | Other fracture of lower end of unspecified femur, initial encounter for open fracture type I or II | Other open fracture of lower end of femur |
| S72499C | 82139 | Other fracture of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other open fracture of lower end of femur |
| S82009A | 8220 | Unspecified fracture of unspecified patella, initial encounter for closed fracture | Closed fracture of patella |
| S82009B | 8221 | Unspecified fracture of unspecified patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82009C | 8221 | Unspecified fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82109A | 82300 | Unspecified fracture of upper end of unspecified tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82839A | 82301 | Other fracture of upper and lower end of unspecified fibula, initial encounter for closed fracture | Closed fracture of upper end of fibula alone |
| S82109B | 82310 | Unspecified fracture of upper end of unspecified tibia, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82109C | 82310 | Unspecified fracture of upper end of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82839B | 82311 | Other fracture of upper and lower end of unspecified fibula, initial encounter for open fracture type I or II | Open fracture of upper end of fibula alone |
| S82839C | 82311 | Other fracture of upper and lower end of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of fibula alone |
| S82209A | 82320 | Unspecified fracture of shaft of unspecified tibia, initial encounter for closed fracture | Closed fracture of shaft of tibia alone |
| S82409A | 82321 | Unspecified fracture of shaft of unspecified fibula, initial encounter for closed fracture | Closed fracture of shaft of fibula alone |
| S82209B | 82330 | Unspecified fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II | Open fracture of shaft of tibia alone |
| S82209C | 82330 | Unspecified fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of tibia alone |
| S82409B | 82331 | Unspecified fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II | Open fracture of shaft of fibula alone |
| S82409C | 82331 | Unspecified fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of fibula alone |
| S82169A | 82340 | Torus fracture of upper end of unspecified tibia, initial encounter for closed fracture | Torus fracture, tibia alone |
| S82319A | 82340 | Torus fracture of lower end of unspecified tibia, initial encounter for closed fracture | Torus fracture, tibia alone |
| S82819A | 82341 | Torus fracture of upper end of unspecified fibula, initial encounter for closed fracture | Torus fracture, fibula alone |
| S82829A | 82341 | Torus fracture of lower end of unspecified fibula, initial encounter for closed fracture | Torus fracture, fibula alone |
| S82201A | 82380 | Unspecified fracture of shaft of right tibia, initial encounter for closed fracture | Closed fracture of unspecified part of tibia alone |
| S82401A | 82381 | Unspecified fracture of shaft of right fibula, initial encounter for closed fracture | Closed fracture of unspecified part of fibula alone |
| S82201B | 82390 | Unspecified fracture of shaft of right tibia, initial encounter for open fracture type I or II | Open fracture of unspecified part of tibia alone |
| S82201C | 82390 | Unspecified fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of unspecified part of tibia alone |
| S82401B | 82391 | Unspecified fracture of shaft of right fibula, initial encounter for open fracture type I or II | Open fracture of unspecified part of fibula alone |
| S82401C | 82391 | Unspecified fracture of shaft of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of unspecified part of fibula alone |
| S8253XA | 8240 | Displaced fracture of medial malleolus of unspecified tibia, initial encounter for closed fracture | Fracture of medial malleolus, closed |

Appendix A
Frailty markers

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|---------|------|--|---------------------------------------|
| S8256XA | 8240 | Nondisplaced fracture of medial malleolus of unspecified tibia, initial encounter for closed fracture | Fracture of medial malleolus, closed |
| S8253XB | 8241 | Displaced fracture of medial malleolus of unspecified tibia, initial encounter for open fracture type I or II | Fracture of medial malleolus, open |
| S8253XC | 8241 | Displaced fracture of medial malleolus of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Fracture of medial malleolus, open |
| S8256XB | 8241 | Nondisplaced fracture of medial malleolus of unspecified tibia, initial encounter for open fracture type I or II | Fracture of medial malleolus, open |
| S8256XC | 8241 | Nondisplaced fracture of medial malleolus of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Fracture of medial malleolus, open |
| S8263XA | 8242 | Displaced fracture of lateral malleolus of unspecified fibula, initial encounter for closed fracture | Fracture of lateral malleolus, closed |
| S8266XA | 8242 | Nondisplaced fracture of lateral malleolus of unspecified fibula, initial encounter for closed fracture | Fracture of lateral malleolus, closed |
| S8263XB | 8243 | Displaced fracture of lateral malleolus of unspecified fibula, initial encounter for open fracture type I or II | Fracture of lateral malleolus, open |
| S8263XC | 8243 | Displaced fracture of lateral malleolus of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC | Fracture of lateral malleolus, open |
| S8266XB | 8243 | Nondisplaced fracture of lateral malleolus of unspecified fibula, initial encounter for open fracture type I or II | Fracture of lateral malleolus, open |
| S8266XC | 8243 | Nondisplaced fracture of lateral malleolus of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC | Fracture of lateral malleolus, open |
| S82843A | 8244 | Displaced bimalleolar fracture of unspecified lower leg, initial encounter for closed fracture | Bimalleolar fracture, closed |
| S82846A | 8244 | Nondisplaced bimalleolar fracture of unspecified lower leg, initial encounter for closed fracture | Bimalleolar fracture, closed |
| S82843B | 8245 | Displaced bimalleolar fracture of unspecified lower leg, initial encounter for open fracture type I or II | Bimalleolar fracture, open |
| S82843C | 8245 | Displaced bimalleolar fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Bimalleolar fracture, open |
| S82846B | 8245 | Nondisplaced bimalleolar fracture of unspecified lower leg, initial encounter for open fracture type I or II | Bimalleolar fracture, open |
| S82846C | 8245 | Nondisplaced bimalleolar fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Bimalleolar fracture, open |
| S82853A | 8246 | Displaced trimalleolar fracture of unspecified lower leg, initial encounter for closed fracture | Trimalleolar fracture, closed |
| S82856A | 8246 | Nondisplaced trimalleolar fracture of unspecified lower leg, initial encounter for closed fracture | Trimalleolar fracture, closed |
| S82853B | 8247 | Displaced trimalleolar fracture of unspecified lower leg, initial encounter for open fracture type I or II | Trimalleolar fracture, open |
| S82853C | 8247 | Displaced trimalleolar fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Trimalleolar fracture, open |
| S82856B | 8247 | Nondisplaced trimalleolar fracture of unspecified lower leg, initial encounter for open fracture type I or II | Trimalleolar fracture, open |
| S82856C | 8247 | Nondisplaced trimalleolar fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Trimalleolar fracture, open |
| S82899A | 8248 | Other fracture of unspecified lower leg, initial encounter for closed fracture | Unspecified fracture of ankle, closed |
| S82899B | 8249 | Other fracture of unspecified lower leg, initial encounter for open fracture type I or II | Unspecified fracture of ankle, open |
| S82899C | 8249 | Other fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Unspecified fracture of ankle, open |
| S92009A | 8250 | Unspecified fracture of unspecified calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S99009A | 8250 | Unspecified physeal fracture of unspecified calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S99019A | 8250 | Salter-Harris Type I physeal fracture of unspecified calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S99029A | 8250 | Salter-Harris Type II physeal fracture of unspecified calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |

Appendix A
Frailty markers

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|---------|-------|--|--|
| S99039A | 8250 | Salter-Harris Type III physeal fracture of unspecified calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S99049A | 8250 | Salter-Harris Type IV physeal fracture of unspecified calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S99099A | 8250 | Other physeal fracture of unspecified calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92009B | 8251 | Unspecified fracture of unspecified calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S99009B | 8251 | Unspecified physeal fracture of unspecified calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S99019B | 8251 | Salter-Harris Type I physeal fracture of unspecified calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S99029B | 8251 | Salter-Harris Type II physeal fracture of unspecified calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S99039B | 8251 | Salter-Harris Type III physeal fracture of unspecified calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S99049B | 8251 | Salter-Harris Type IV physeal fracture of unspecified calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S99099B | 8251 | Other physeal fracture of unspecified calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92819A | 82520 | Other fracture of unspecified foot, initial encounter for closed fracture | Closed fracture of unspecified bone(s) of foot [except toes] |
| S92909A | 82520 | Unspecified fracture of unspecified foot, initial encounter for closed fracture | Closed fracture of unspecified bone(s) of foot [except toes] |
| S92109A | 82521 | Unspecified fracture of unspecified talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92253A | 82522 | Displaced fracture of navicular [scaphoid] of unspecified foot, initial encounter for closed fracture | Closed fracture of navicular [scaphoid], foot |
| S92256A | 82522 | Nondisplaced fracture of navicular [scaphoid] of unspecified foot, initial encounter for closed fracture | Closed fracture of navicular [scaphoid], foot |
| S92213A | 82523 | Displaced fracture of cuboid bone of unspecified foot, initial encounter for closed fracture | Closed fracture of cuboid |
| S92216A | 82523 | Nondisplaced fracture of cuboid bone of unspecified foot, initial encounter for closed fracture | Closed fracture of cuboid |
| S92223A | 82524 | Displaced fracture of lateral cuneiform of unspecified foot, initial encounter for closed fracture | Closed fracture of cuneiform, foot |
| S92226A | 82524 | Nondisplaced fracture of lateral cuneiform of unspecified foot, initial encounter for closed fracture | Closed fracture of cuneiform, foot |
| S92233A | 82524 | Displaced fracture of intermediate cuneiform of unspecified foot, initial encounter for closed fracture | Closed fracture of cuneiform, foot |
| S92236A | 82524 | Nondisplaced fracture of intermediate cuneiform of unspecified foot, initial encounter for closed fracture | Closed fracture of cuneiform, foot |
| S92243A | 82524 | Displaced fracture of medial cuneiform of unspecified foot, initial encounter for closed fracture | Closed fracture of cuneiform, foot |
| S92246A | 82524 | Nondisplaced fracture of medial cuneiform of unspecified foot, initial encounter for closed fracture | Closed fracture of cuneiform, foot |
| S92309A | 82525 | Fracture of unspecified metatarsal bone(s), unspecified foot, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |
| S99109A | 82525 | Unspecified physeal fracture of unspecified metatarsal, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |
| S99119A | 82525 | Salter-Harris Type I physeal fracture of unspecified metatarsal, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |
| S99129A | 82525 | Salter-Harris Type II physeal fracture of unspecified metatarsal, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |
| S99139A | 82525 | Salter-Harris Type III physeal fracture of unspecified metatarsal, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |
| S99149A | 82525 | Salter-Harris Type IV physeal fracture of unspecified metatarsal, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |
| S99199A | 82525 | Other physeal fracture of unspecified metatarsal, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |
| S92201A | 82529 | Fracture of unspecified tarsal bone(s) of right foot, initial encounter for closed fracture | Other closed fracture of tarsal and metatarsal bones |

Appendix A
Frailty markers

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|---------|-------|--|--|
| S92202A | 82529 | Fracture of unspecified tarsal bone(s) of left foot, initial encounter for closed fracture | Other closed fracture of tarsal and metatarsal bones |
| S92209A | 82529 | Fracture of unspecified tarsal bone(s) of unspecified foot, initial encounter for closed fracture | Other closed fracture of tarsal and metatarsal bones |
| S92819B | 82530 | Other fracture of unspecified foot, initial encounter for open fracture | Open fracture of unspecified bone(s) of foot [except toes] |
| S92909B | 82530 | Unspecified fracture of unspecified foot, initial encounter for open fracture | Open fracture of unspecified bone(s) of foot [except toes] |
| S92109B | 82531 | Unspecified fracture of unspecified talus, initial encounter for open fracture | Open fracture of astragalus |
| S92253B | 82532 | Displaced fracture of navicular [scaphoid] of unspecified foot, initial encounter for open fracture | Open fracture of navicular [scaphoid], foot |
| S92256B | 82532 | Nondisplaced fracture of navicular [scaphoid] of unspecified foot, initial encounter for open fracture | Open fracture of navicular [scaphoid], foot |
| S92213B | 82533 | Displaced fracture of cuboid bone of unspecified foot, initial encounter for open fracture | Open fracture of cuboid |
| S92216B | 82533 | Nondisplaced fracture of cuboid bone of unspecified foot, initial encounter for open fracture | Open fracture of cuboid |
| S92223B | 82534 | Displaced fracture of lateral cuneiform of unspecified foot, initial encounter for open fracture | Open fracture of cuneiform, foot |
| S92226B | 82534 | Nondisplaced fracture of lateral cuneiform of unspecified foot, initial encounter for open fracture | Open fracture of cuneiform, foot |
| S92233B | 82534 | Displaced fracture of intermediate cuneiform of unspecified foot, initial encounter for open fracture | Open fracture of cuneiform, foot |
| S92236B | 82534 | Nondisplaced fracture of intermediate cuneiform of unspecified foot, initial encounter for open fracture | Open fracture of cuneiform, foot |
| S92243B | 82534 | Displaced fracture of medial cuneiform of unspecified foot, initial encounter for open fracture | Open fracture of cuneiform, foot |
| S92246B | 82534 | Nondisplaced fracture of medial cuneiform of unspecified foot, initial encounter for open fracture | Open fracture of cuneiform, foot |
| S92309B | 82535 | Fracture of unspecified metatarsal bone(s), unspecified foot, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S99109B | 82535 | Unspecified physeal fracture of unspecified metatarsal, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S99119B | 82535 | Salter-Harris Type I physeal fracture of unspecified metatarsal, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S99129B | 82535 | Salter-Harris Type II physeal fracture of unspecified metatarsal, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S99139B | 82535 | Salter-Harris Type III physeal fracture of unspecified metatarsal, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S99149B | 82535 | Salter-Harris Type IV physeal fracture of unspecified metatarsal, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S99199B | 82535 | Other physeal fracture of unspecified metatarsal, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S92201B | 82539 | Fracture of unspecified tarsal bone(s) of right foot, initial encounter for open fracture | Other open fracture of tarsal and metatarsal bones |
| S92202B | 82539 | Fracture of unspecified tarsal bone(s) of left foot, initial encounter for open fracture | Other open fracture of tarsal and metatarsal bones |
| S92209B | 82539 | Fracture of unspecified tarsal bone(s) of unspecified foot, initial encounter for open fracture | Other open fracture of tarsal and metatarsal bones |
| S92403A | 8260 | Displaced unspecified fracture of unspecified great toe, initial encounter for closed fracture | Closed fracture of one or more phalanges of foot |
| S92406A | 8260 | Nondisplaced unspecified fracture of unspecified great toe, initial encounter for closed fracture | Closed fracture of one or more phalanges of foot |
| S92503A | 8260 | Displaced unspecified fracture of unspecified lesser toe(s), initial encounter for closed fracture | Closed fracture of one or more phalanges of foot |
| S92506A | 8260 | Nondisplaced unspecified fracture of unspecified lesser toe(s), initial encounter for closed fracture | Closed fracture of one or more phalanges of foot |
| S92403B | 8261 | Displaced unspecified fracture of unspecified great toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S92406B | 8261 | Nondisplaced unspecified fracture of unspecified great toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |

Appendix A
Frailty markers

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|---------|-------|---|--|
| S92503B | 8261 | Displaced unspecified fracture of unspecified lesser toe(s), initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S92506B | 8261 | Nondisplaced unspecified fracture of unspecified lesser toe(s), initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S8290XA | 8270 | Unspecified fracture of unspecified lower leg, initial encounter for closed fracture | Other, multiple and ill-defined fractures of lower limb, closed |
| S8290XB | 8271 | Unspecified fracture of unspecified lower leg, initial encounter for open fracture type I or II | Other, multiple and ill-defined fractures of lower limb, open |
| S7290XA | 8280 | Unspecified fracture of unspecified femur, initial encounter for closed fracture | Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| S8290XA | 8280 | Unspecified fracture of unspecified lower leg, initial encounter for closed fracture | Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| S7290XE | 8281 | Unspecified fracture of unspecified femur, subsequent encounter for open fracture type I or II with routine healing | Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| S8290XB | 8281 | Unspecified fracture of unspecified lower leg, initial encounter for open fracture type I or II | Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| M8000XA | 73310 | Age-related osteoporosis with current pathological fracture, unspecified site, initial encounter for fracture | Pathologic fracture, unspecified site |
| M8080XA | 73310 | Other osteoporosis with current pathological fracture, unspecified site, initial encounter for fracture | Pathologic fracture, unspecified site |
| M8450XA | 73310 | Pathological fracture in neoplastic disease, unspecified site, initial encounter for fracture | Pathologic fracture, unspecified site |
| M8460XA | 73310 | Pathological fracture in other disease, unspecified site, initial encounter for fracture | Pathologic fracture, unspecified site |
| M80021A | 73311 | Age-related osteoporosis with current pathological fracture, right humerus, initial encounter for fracture | Pathologic fracture of humerus |
| M80022A | 73311 | Age-related osteoporosis with current pathological fracture, left humerus, initial encounter for fracture | Pathologic fracture of humerus |
| M80029A | 73311 | Age-related osteoporosis with current pathological fracture, unspecified humerus, initial encounter for fracture | Pathologic fracture of humerus |
| M80821A | 73311 | Other osteoporosis with current pathological fracture, right humerus, initial encounter for fracture | Pathologic fracture of humerus |
| M80822A | 73311 | Other osteoporosis with current pathological fracture, left humerus, initial encounter for fracture | Pathologic fracture of humerus |
| M80829A | 73311 | Other osteoporosis with current pathological fracture, unspecified humerus, initial encounter for fracture | Pathologic fracture of humerus |
| M84421A | 73311 | Pathological fracture, right humerus, initial encounter for fracture | Pathologic fracture of humerus |
| M84422A | 73311 | Pathological fracture, left humerus, initial encounter for fracture | Pathologic fracture of humerus |
| M84521A | 73311 | Pathological fracture in neoplastic disease, right humerus, initial encounter for fracture | Pathologic fracture of humerus |
| M84522A | 73311 | Pathological fracture in neoplastic disease, left humerus, initial encounter for fracture | Pathologic fracture of humerus |
| M84529A | 73311 | Pathological fracture in neoplastic disease, unspecified humerus, initial encounter for fracture | Pathologic fracture of humerus |
| M84621A | 73311 | Pathological fracture in other disease, right humerus, initial encounter for fracture | Pathologic fracture of humerus |
| M84622A | 73311 | Pathological fracture in other disease, left humerus, initial encounter for fracture | Pathologic fracture of humerus |
| M84629A | 73311 | Pathological fracture in other disease, unspecified humerus, initial encounter for fracture | Pathologic fracture of humerus |
| M80031A | 73312 | Age-related osteoporosis with current pathological fracture, right forearm, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M80032A | 73312 | Age-related osteoporosis with current pathological fracture, left forearm, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M80039A | 73312 | Age-related osteoporosis with current pathological fracture, unspecified forearm, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M80831A | 73312 | Other osteoporosis with current pathological fracture, right forearm, initial encounter for fracture | Pathologic fracture of distal radius and ulna |

Appendix A
Frailty markers

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|---------|-------|--|---|
| M80832A | 73312 | Other osteoporosis with current pathological fracture, left forearm, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M80839A | 73312 | Other osteoporosis with current pathological fracture, unspecified forearm, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M84431A | 73312 | Pathological fracture, right ulna, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M84432A | 73312 | Pathological fracture, left ulna, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M84433A | 73312 | Pathological fracture, right radius, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M84434A | 73312 | Pathological fracture, left radius, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M84531A | 73312 | Pathological fracture in neoplastic disease, right ulna, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M84532A | 73312 | Pathological fracture in neoplastic disease, left ulna, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M84533A | 73312 | Pathological fracture in neoplastic disease, right radius, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M84534A | 73312 | Pathological fracture in neoplastic disease, left radius, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M84539A | 73312 | Pathological fracture in neoplastic disease, unspecified ulna and radius, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M84631A | 73312 | Pathological fracture in other disease, right ulna, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M84632A | 73312 | Pathological fracture in other disease, left ulna, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M84633A | 73312 | Pathological fracture in other disease, right radius, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M84634A | 73312 | Pathological fracture in other disease, left radius, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M84639A | 73312 | Pathological fracture in other disease, unspecified ulna and radius, initial encounter for fracture | Pathologic fracture of distal radius and ulna |
| M4851XA | 73313 | Collapsed vertebra, not elsewhere classified, occipito-atlanto-axial region, initial encounter for fracture | Pathologic fracture of vertebrae |
| M4852XA | 73313 | Collapsed vertebra, not elsewhere classified, cervical region, initial encounter for fracture | Pathologic fracture of vertebrae |
| M4853XA | 73313 | Collapsed vertebra, not elsewhere classified, cervicothoracic region, initial encounter for fracture | Pathologic fracture of vertebrae |
| M4854XA | 73313 | Collapsed vertebra, not elsewhere classified, thoracic region, initial encounter for fracture | Pathologic fracture of vertebrae |
| M4855XA | 73313 | Collapsed vertebra, not elsewhere classified, thoracolumbar region, initial encounter for fracture | Pathologic fracture of vertebrae |
| M4856XA | 73313 | Collapsed vertebra, not elsewhere classified, lumbar region, initial encounter for fracture | Pathologic fracture of vertebrae |
| M4857XA | 73313 | Collapsed vertebra, not elsewhere classified, lumbosacral region, initial encounter for fracture | Pathologic fracture of vertebrae |
| M4858XA | 73313 | Collapsed vertebra, not elsewhere classified, sacral and sacrococcygeal region, initial encounter for fracture | Pathologic fracture of vertebrae |
| M8088XA | 73313 | Other osteoporosis with current pathological fracture, vertebra(e), initial encounter for fracture | Pathologic fracture of vertebrae |
| M8448XA | 73313 | Pathological fracture, other site, initial encounter for fracture | Pathologic fracture of vertebrae |
| M8458XA | 73313 | Pathological fracture in neoplastic disease, other specified site, initial encounter for fracture | Pathologic fracture of vertebrae |
| M80051A | 73314 | Age-related osteoporosis with current pathological fracture, right femur, initial encounter for fracture | Pathologic fracture of neck of femur |
| M80052A | 73314 | Age-related osteoporosis with current pathological fracture, left femur, initial encounter for fracture | Pathologic fracture of neck of femur |
| M80059A | 73314 | Age-related osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture | Pathologic fracture of neck of femur |
| M80851A | 73314 | Other osteoporosis with current pathological fracture, right femur, initial encounter for fracture | Pathologic fracture of neck of femur |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|--|
| M80852A | 73314 | Other osteoporosis with current pathological fracture, left femur, initial encounter for fracture | Pathologic fracture of neck of femur |
| M80859A | 73314 | Other osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture | Pathologic fracture of neck of femur |
| M84451A | 73314 | Pathological fracture, right femur, initial encounter for fracture | Pathologic fracture of neck of femur |
| M84452A | 73314 | Pathological fracture, left femur, initial encounter for fracture | Pathologic fracture of neck of femur |
| M84551A | 73314 | Pathological fracture in neoplastic disease, right femur, initial encounter for fracture | Pathologic fracture of neck of femur |
| M84552A | 73314 | Pathological fracture in neoplastic disease, left femur, initial encounter for fracture | Pathologic fracture of neck of femur |
| M84553A | 73314 | Pathological fracture in neoplastic disease, unspecified femur, initial encounter for fracture | Pathologic fracture of neck of femur |
| M84559A | 73314 | Pathological fracture in neoplastic disease, hip, unspecified, initial encounter for fracture | Pathologic fracture of neck of femur |
| M84651A | 73314 | Pathological fracture in other disease, right femur, initial encounter for fracture | Pathologic fracture of neck of femur |
| M84652A | 73314 | Pathological fracture in other disease, left femur, initial encounter for fracture | Pathologic fracture of neck of femur |
| M84653A | 73314 | Pathological fracture in other disease, unspecified femur, initial encounter for fracture | Pathologic fracture of neck of femur |
| M84659A | 73314 | Pathological fracture in other disease, hip, unspecified, initial encounter for fracture | Pathologic fracture of neck of femur |
| M84751A | 73314 | Incomplete atypical femoral fracture, right leg, initial encounter for fracture | Pathologic fracture of neck of femur |
| M84752A | 73314 | Incomplete atypical femoral fracture, left leg, initial encounter for fracture | Pathologic fracture of neck of femur |
| M84754A | 73314 | Complete transverse atypical femoral fracture, right leg, initial encounter for fracture | Pathologic fracture of neck of femur |
| M84755A | 73314 | Complete transverse atypical femoral fracture, left leg, initial encounter for fracture | Pathologic fracture of neck of femur |
| M84757A | 73314 | Complete oblique atypical femoral fracture, right leg, initial encounter for fracture | Pathologic fracture of neck of femur |
| M84758A | 73314 | Complete oblique atypical femoral fracture, left leg, initial encounter for fracture | Pathologic fracture of neck of femur |
| M80051A | 73315 | Age-related osteoporosis with current pathological fracture, right femur, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M80052A | 73315 | Age-related osteoporosis with current pathological fracture, left femur, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M80059A | 73315 | Age-related osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M80851A | 73315 | Other osteoporosis with current pathological fracture, right femur, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M80852A | 73315 | Other osteoporosis with current pathological fracture, left femur, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M80859A | 73315 | Other osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84451A | 73315 | Pathological fracture, right femur, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84452A | 73315 | Pathological fracture, left femur, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84551A | 73315 | Pathological fracture in neoplastic disease, right femur, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84552A | 73315 | Pathological fracture in neoplastic disease, left femur, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84553A | 73315 | Pathological fracture in neoplastic disease, unspecified femur, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84559A | 73315 | Pathological fracture in neoplastic disease, hip, unspecified, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84651A | 73315 | Pathological fracture in other disease, right femur, initial encounter for fracture | Pathologic fracture of other specified part of femur |

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Frailty markers

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|---------|-------|---|--|
| M84652A | 73315 | Pathological fracture in other disease, left femur, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84653A | 73315 | Pathological fracture in other disease, unspecified femur, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84659A | 73315 | Pathological fracture in other disease, hip, unspecified, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84751A | 73315 | Incomplete atypical femoral fracture, right leg, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84752A | 73315 | Incomplete atypical femoral fracture, left leg, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84753A | 73315 | Incomplete atypical femoral fracture, unspecified leg, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84754A | 73315 | Complete transverse atypical femoral fracture, right leg, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84755A | 73315 | Complete transverse atypical femoral fracture, left leg, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84756A | 73315 | Complete transverse atypical femoral fracture, unspecified leg, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84757A | 73315 | Complete oblique atypical femoral fracture, right leg, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84758A | 73315 | Complete oblique atypical femoral fracture, left leg, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M84759A | 73315 | Complete oblique atypical femoral fracture, unspecified leg, initial encounter for fracture | Pathologic fracture of other specified part of femur |
| M80061A | 73316 | Age-related osteoporosis with current pathological fracture, right lower leg, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M80062A | 73316 | Age-related osteoporosis with current pathological fracture, left lower leg, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M80069A | 73316 | Age-related osteoporosis with current pathological fracture, unspecified lower leg, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M80071A | 73316 | Age-related osteoporosis with current pathological fracture, right ankle and foot, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M80072A | 73316 | Age-related osteoporosis with current pathological fracture, left ankle and foot, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M80079A | 73316 | Age-related osteoporosis with current pathological fracture, unspecified ankle and foot, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M80861A | 73316 | Other osteoporosis with current pathological fracture, right lower leg, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M80862A | 73316 | Other osteoporosis with current pathological fracture, left lower leg, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M80869A | 73316 | Other osteoporosis with current pathological fracture, unspecified lower leg, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M80871A | 73316 | Other osteoporosis with current pathological fracture, right ankle and foot, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M80872A | 73316 | Other osteoporosis with current pathological fracture, left ankle and foot, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M80879A | 73316 | Other osteoporosis with current pathological fracture, unspecified ankle and foot, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84461A | 73316 | Pathological fracture, right tibia, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84462A | 73316 | Pathological fracture, left tibia, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84463A | 73316 | Pathological fracture, right fibula, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84464A | 73316 | Pathological fracture, left fibula, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84471A | 73316 | Pathological fracture, right ankle, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84472A | 73316 | Pathological fracture, left ankle, initial encounter for fracture | Pathologic fracture of tibia or fibula |

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Frailty markers

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|---------|-------|---|---|
| M84473A | 73316 | Pathological fracture, unspecified ankle, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84561A | 73316 | Pathological fracture in neoplastic disease, right tibia, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84562A | 73316 | Pathological fracture in neoplastic disease, left tibia, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84563A | 73316 | Pathological fracture in neoplastic disease, right fibula, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84564A | 73316 | Pathological fracture in neoplastic disease, left fibula, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84569A | 73316 | Pathological fracture in neoplastic disease, unspecified tibia and fibula, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84571A | 73316 | Pathological fracture in neoplastic disease, right ankle, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84572A | 73316 | Pathological fracture in neoplastic disease, left ankle, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84573A | 73316 | Pathological fracture in neoplastic disease, unspecified ankle, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84661A | 73316 | Pathological fracture in other disease, right tibia, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84662A | 73316 | Pathological fracture in other disease, left tibia, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84663A | 73316 | Pathological fracture in other disease, right fibula, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84664A | 73316 | Pathological fracture in other disease, left fibula, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84669A | 73316 | Pathological fracture in other disease, unspecified tibia and fibula, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84671A | 73316 | Pathological fracture in other disease, right ankle, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84672A | 73316 | Pathological fracture in other disease, left ankle, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M84673A | 73316 | Pathological fracture in other disease, unspecified ankle, initial encounter for fracture | Pathologic fracture of tibia or fibula |
| M80011A | 73319 | Age-related osteoporosis with current pathological fracture, right shoulder, initial encounter for fracture | Pathologic fracture of other specified site |
| M80012A | 73319 | Age-related osteoporosis with current pathological fracture, left shoulder, initial encounter for fracture | Pathologic fracture of other specified site |
| M80019A | 73319 | Age-related osteoporosis with current pathological fracture, unspecified shoulder, initial encounter for fracture | Pathologic fracture of other specified site |
| M80041A | 73319 | Age-related osteoporosis with current pathological fracture, right hand, initial encounter for fracture | Pathologic fracture of other specified site |
| M80042A | 73319 | Age-related osteoporosis with current pathological fracture, left hand, initial encounter for fracture | Pathologic fracture of other specified site |
| M80049A | 73319 | Age-related osteoporosis with current pathological fracture, unspecified hand, initial encounter for fracture | Pathologic fracture of other specified site |
| M80811A | 73319 | Other osteoporosis with current pathological fracture, right shoulder, initial encounter for fracture | Pathologic fracture of other specified site |
| M80812A | 73319 | Other osteoporosis with current pathological fracture, left shoulder, initial encounter for fracture | Pathologic fracture of other specified site |
| M80819A | 73319 | Other osteoporosis with current pathological fracture, unspecified shoulder, initial encounter for fracture | Pathologic fracture of other specified site |
| M80841A | 73319 | Other osteoporosis with current pathological fracture, right hand, initial encounter for fracture | Pathologic fracture of other specified site |
| M80842A | 73319 | Other osteoporosis with current pathological fracture, left hand, initial encounter for fracture | Pathologic fracture of other specified site |
| M80849A | 73319 | Other osteoporosis with current pathological fracture, unspecified hand, initial encounter for fracture | Pathologic fracture of other specified site |
| M84411A | 73319 | Pathological fracture, right shoulder, initial encounter for fracture | Pathologic fracture of other specified site |
| M84412A | 73319 | Pathological fracture, left shoulder, initial encounter for fracture | Pathologic fracture of other specified site |

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|---------|-------|--|---|
| M84676A | 73319 | Pathological fracture in other disease, unspecified foot, initial encounter for fracture | Pathologic fracture of other specified site |
| M8468XA | 73319 | Pathological fracture in other disease, other site, initial encounter for fracture | Pathologic fracture of other specified site |
| S020XXA | 80001 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull without mention of intracranial injury, with no loss of consciousness |
| S020XXA | 80002 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull without mention of intracranial injury, with brief [less than one hour] loss of consciousness |
| S020XXA | 80003 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull without mention of intracranial injury, with moderate [1-24 hours] loss of consciousness |
| S020XXA | 80004 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S020XXA | 80005 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S020XXA | 80006 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull without mention of intracranial injury, with loss of consciousness of unspecified duration |
| S020XXA | 80009 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull without mention of intracranial injury, with concussion, unspecified |
| S020XXA | 80010 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with cerebral laceration and contusion, unspecified state of consciousness |
| S06330A | 80010 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Closed fracture of vault of skull with cerebral laceration and contusion, unspecified state of consciousness |
| S020XXA | 80011 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with cerebral laceration and contusion, with no loss of consciousness |
| S06330A | 80011 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Closed fracture of vault of skull with cerebral laceration and contusion, with no loss of consciousness |
| S020XXA | 80012 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S06331A | 80012 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter | Closed fracture of vault of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S06332A | 80012 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fracture of vault of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S020XXA | 80013 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S06333A | 80013 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Closed fracture of vault of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S06334A | 80013 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fracture of vault of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S020XXA | 80014 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06335A | 80014 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S020XXA | 80015 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |

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|---------|-------|--|---|
| S06336A | 80015 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06337A | 80015 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Closed fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06338A | 80015 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Closed fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S020XXA | 80016 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with cerebral laceration and contusion, with loss of consciousness of unspecified duration |
| S06339A | 80016 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter | Closed fracture of vault of skull with cerebral laceration and contusion, with loss of consciousness of unspecified duration |
| S020XXA | 80019 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with cerebral laceration and contusion, with concussion, unspecified |
| S06330A | 80019 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Closed fracture of vault of skull with cerebral laceration and contusion, with concussion, unspecified |
| S020XXA | 80020 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S064X0A | 80020 | Epidural hemorrhage without loss of consciousness, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S065X0A | 80020 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S066X0A | 80020 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S020XXA | 80021 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S064X0A | 80021 | Epidural hemorrhage without loss of consciousness, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S065X0A | 80021 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S066X0A | 80021 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S020XXA | 80022 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S064X1A | 80022 | Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S064X2A | 80022 | Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S065X1A | 80022 | Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S065X2A | 80022 | Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |

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| S066X1A | 80022 | Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S066X2A | 80022 | Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S020XXA | 80023 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S064X3A | 80023 | Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S064X4A | 80023 | Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S065X3A | 80023 | Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S065X4A | 80023 | Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S066X3A | 80023 | Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S066X4A | 80023 | Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S020XXA | 80024 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S064X5A | 80024 | Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S065X5A | 80024 | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S066X5A | 80024 | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S020XXA | 80025 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X6A | 80025 | Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X7A | 80025 | Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X8A | 80025 | Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |

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| S065X6A | 80025 | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X7A | 80025 | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X8A | 80025 | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X6A | 80025 | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X7A | 80025 | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X8A | 80025 | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S020XXA | 80026 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S064X9A | 80026 | Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S065X9A | 80026 | Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S066X9A | 80026 | Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S020XXA | 80029 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S064X0A | 80029 | Epidural hemorrhage without loss of consciousness, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S065X0A | 80029 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S066X0A | 80029 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S020XXA | 80030 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness |
| S06360A | 80030 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness |
| S020XXA | 80031 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with no loss of consciousness |
| S06360A | 80031 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with no loss of consciousness |
| S020XXA | 80032 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S06361A | 80032 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |

Appendix A
Frailty markers

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| S06362A | 80032 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S020XXA | 80033 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S06363A | 80033 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S06364A | 80033 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S020XXA | 80034 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06365A | 80034 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S020XXA | 80035 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06366A | 80035 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06367A | 80035 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06368A | 80035 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S020XXA | 80036 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration |
| S06369A | 80036 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration |
| S020XXA | 80039 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified |
| S06360A | 80039 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified |
| S020XXA | 80040 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S06890A | 80040 | Other specified intracranial injury without loss of consciousness, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S069X0A | 80040 | Unspecified intracranial injury without loss of consciousness, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S020XXA | 80041 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S06890A | 80041 | Other specified intracranial injury without loss of consciousness, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S069X0A | 80041 | Unspecified intracranial injury without loss of consciousness, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with no loss of consciousness |

Appendix A
Frailty markers

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| S020XXA | 80042 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S06891A | 80042 | Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S06892A | 80042 | Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S069X1A | 80042 | Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S069X2A | 80042 | Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S020XXA | 80043 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S06893A | 80043 | Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S06894A | 80043 | Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S069X3A | 80043 | Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S069X4A | 80043 | Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S020XXA | 80044 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06895A | 80044 | Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S069X5A | 80044 | Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S020XXA | 80045 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06896A | 80045 | Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06897A | 80045 | Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06898A | 80045 | Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S069X6A | 80045 | Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |

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Frailty markers

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|---------|-------|---|---|
| S069X7A | 80045 | Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S069X8A | 80045 | Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S020XXA | 80046 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S06899A | 80046 | Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S069X9A | 80046 | Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S020XXA | 80049 | Fracture of vault of skull, initial encounter for closed fracture | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S06890A | 80049 | Other specified intracranial injury without loss of consciousness, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S069X0A | 80049 | Unspecified intracranial injury without loss of consciousness, initial encounter | Closed fracture of vault of skull with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S020XXB | 80051 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull without mention of intracranial injury, with no loss of consciousness |
| S020XXB | 80052 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull without mention of intracranial injury, with brief [less than one hour] loss of consciousness |
| S020XXB | 80053 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull without mention of intracranial injury, with moderate [1-24 hours] loss of consciousness |
| S020XXB | 80054 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S020XXB | 80055 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S020XXB | 80056 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull without mention of intracranial injury, with loss of consciousness of unspecified duration |
| S020XXB | 80059 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull without mention of intracranial injury, with concussion, unspecified |
| S020XXB | 80060 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with cerebral laceration and contusion, unspecified state of consciousness |
| S06330A | 80060 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Open fracture of vault of skull with cerebral laceration and contusion, unspecified state of consciousness |
| S020XXB | 80061 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with cerebral laceration and contusion, with no loss of consciousness |
| S06330A | 80061 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Open fracture of vault of skull with cerebral laceration and contusion, with no loss of consciousness |
| S020XXB | 80062 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S06331A | 80062 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter | Open fracture of vault of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S06332A | 80062 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fracture of vault of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |

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Frailty markers

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|---------|-------|--|---|
| S020XXB | 80063 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S06333A | 80063 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Open fracture of vault of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S06334A | 80063 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fracture of vault of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S020XXB | 80064 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06335A | 80064 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S020XXB | 80065 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06336A | 80065 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06337A | 80065 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Open fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06338A | 80065 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Open fracture of vault of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S020XXB | 80066 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with cerebral laceration and contusion, with loss of consciousness of unspecified duration |
| S06339A | 80066 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter | Open fracture of vault of skull with cerebral laceration and contusion, with loss of consciousness of unspecified duration |
| S020XXB | 80069 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with cerebral laceration and contusion, with concussion, unspecified |
| S06330A | 80069 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Open fracture of vault of skull with cerebral laceration and contusion, with concussion, unspecified |
| S020XXB | 80070 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S064X0A | 80070 | Epidural hemorrhage without loss of consciousness, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S065X0A | 80070 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S066X0A | 80070 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S020XXB | 80071 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S064X0A | 80071 | Epidural hemorrhage without loss of consciousness, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S065X0A | 80071 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S066X0A | 80071 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S020XXB | 80072 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |

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Frailty markers

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| S064X1A | 80072 | Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S064X2A | 80072 | Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S065X1A | 80072 | Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S065X2A | 80072 | Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S066X1A | 80072 | Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S066X2A | 80072 | Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S020XXB | 80073 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S064X3A | 80073 | Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S064X4A | 80073 | Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S065X3A | 80073 | Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S065X4A | 80073 | Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S066X3A | 80073 | Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S066X4A | 80073 | Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S020XXB | 80074 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S064X5A | 80074 | Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S065X5A | 80074 | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S066X5A | 80074 | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S020XXB | 80075 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |

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Frailty markers

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| S064X6A | 80075 | Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X7A | 80075 | Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X8A | 80075 | Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X6A | 80075 | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X7A | 80075 | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X8A | 80075 | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X6A | 80075 | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X7A | 80075 | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X8A | 80075 | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S020XXB | 80076 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S064X9A | 80076 | Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S065X9A | 80076 | Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S066X9A | 80076 | Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S020XXB | 80079 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S064X0A | 80079 | Epidural hemorrhage without loss of consciousness, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S065X0A | 80079 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S066X0A | 80079 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S020XXB | 80080 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness |
| S06360A | 80080 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness |
| S020XXB | 80081 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with no loss of consciousness |

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| S06360A | 80081 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with no loss of consciousness |
| S020XXB | 80082 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S06361A | 80082 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S06362A | 80082 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S020XXB | 80083 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S06363A | 80083 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S06364A | 80083 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S020XXB | 80084 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06365A | 80084 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S020XXB | 80085 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06366A | 80085 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06367A | 80085 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06368A | 80085 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S020XXB | 80086 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration |
| S06369A | 80086 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration |
| S020XXB | 80089 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified |
| S06360A | 80089 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Open fracture of vault of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified |
| S020XXB | 80090 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S06890A | 80090 | Other specified intracranial injury without loss of consciousness, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness |

Appendix A
Frailty markers

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| S069X0A | 80090 | Unspecified intracranial injury without loss of consciousness, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S020XXB | 80091 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S06890A | 80091 | Other specified intracranial injury without loss of consciousness, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S069X0A | 80091 | Unspecified intracranial injury without loss of consciousness, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S020XXB | 80092 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S06891A | 80092 | Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S06892A | 80092 | Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S069X1A | 80092 | Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S069X2A | 80092 | Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S020XXB | 80093 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S06893A | 80093 | Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S06894A | 80093 | Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S069X3A | 80093 | Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S069X4A | 80093 | Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S020XXB | 80094 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06895A | 80094 | Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S069X5A | 80094 | Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S020XXB | 80095 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06896A | 80095 | Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |

Appendix A
Frailty markers

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| S06897A | 80095 | Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06898A | 80095 | Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S069X6A | 80095 | Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S069X7A | 80095 | Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S069X8A | 80095 | Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S020XXB | 80096 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S06899A | 80096 | Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S069X9A | 80096 | Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S020XXB | 80099 | Fracture of vault of skull, initial encounter for open fracture | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S06890A | 80099 | Other specified intracranial injury without loss of consciousness, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S069X0A | 80099 | Unspecified intracranial injury without loss of consciousness, initial encounter | Open fracture of vault of skull with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S02110A | 80100 | Type I occipital condyle fracture, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S02111A | 80100 | Type II occipital condyle fracture, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S02112A | 80100 | Type III occipital condyle fracture, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S02113A | 80100 | Unspecified occipital condyle fracture, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S02118A | 80100 | Other fracture of occiput, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S02119A | 80100 | Unspecified fracture of occiput, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S0211AA | 80100 | Type I occipital condyle fracture, right side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S0211BA | 80100 | Type I occipital condyle fracture, left side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S0211CA | 80100 | Type II occipital condyle fracture, right side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S0211DA | 80100 | Type II occipital condyle fracture, left side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S0211EA | 80100 | Type III occipital condyle fracture, right side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S0211FA | 80100 | Type III occipital condyle fracture, left side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S0211GA | 80100 | Other fracture of occiput, right side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |

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Frailty markers

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| S0211HA | 80100 | Other fracture of occiput, left side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S0219XA | 80100 | Other fracture of base of skull, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness |
| S02101A | 80101 | Fracture of base of skull, right side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with no loss of consciousness |
| S02102A | 80101 | Fracture of base of skull, left side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with no loss of consciousness |
| S02109A | 80101 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with no loss of consciousness |
| S02101A | 80102 | Fracture of base of skull, right side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with brief [less than one hour] loss of consciousness |
| S02102A | 80102 | Fracture of base of skull, left side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with brief [less than one hour] loss of consciousness |
| S02109A | 80102 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with brief [less than one hour] loss of consciousness |
| S02101A | 80103 | Fracture of base of skull, right side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with moderate [1-24 hours] loss of consciousness |
| S02102A | 80103 | Fracture of base of skull, left side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with moderate [1-24 hours] loss of consciousness |
| S02109A | 80103 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with moderate [1-24 hours] loss of consciousness |
| S02101A | 80104 | Fracture of base of skull, right side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S02102A | 80104 | Fracture of base of skull, left side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S02109A | 80104 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S02101A | 80105 | Fracture of base of skull, right side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S02102A | 80105 | Fracture of base of skull, left side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S02109A | 80105 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S02101A | 80106 | Fracture of base of skull, right side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with loss of consciousness of unspecified duration |
| S02102A | 80106 | Fracture of base of skull, left side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with loss of consciousness of unspecified duration |
| S02109A | 80106 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with loss of consciousness of unspecified duration |
| S02101A | 80109 | Fracture of base of skull, right side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with concussion, unspecified |
| S02102A | 80109 | Fracture of base of skull, left side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with concussion, unspecified |

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Frailty markers

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| S02109A | 80109 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull without mention of intracranial injury, with concussion, unspecified |
| S02109A | 80110 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with cerebral laceration and contusion, unspecified state of consciousness |
| S06330A | 80110 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Closed fracture of base of skull with cerebral laceration and contusion, unspecified state of consciousness |
| S02109A | 80111 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with cerebral laceration and contusion, with no loss of consciousness |
| S06330A | 80111 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Closed fracture of base of skull with cerebral laceration and contusion, with no loss of consciousness |
| S02109A | 80112 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S06331A | 80112 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter | Closed fracture of base of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S06332A | 80112 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fracture of base of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S02109A | 80113 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S06333A | 80113 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Closed fracture of base of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S06334A | 80113 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fracture of base of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S02109A | 80114 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06335A | 80114 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S02109A | 80115 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06336A | 80115 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06337A | 80115 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Closed fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06338A | 80115 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Closed fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S02109A | 80116 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with cerebral laceration and contusion, with loss of consciousness of unspecified duration |
| S06339A | 80116 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter | Closed fracture of base of skull with cerebral laceration and contusion, with loss of consciousness of unspecified duration |
| S02109A | 80119 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with cerebral laceration and contusion, with concussion, unspecified |
| S06330A | 80119 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Closed fracture of base of skull with cerebral laceration and contusion, with concussion, unspecified |
| S02109A | 80120 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |

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Frailty markers

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| S064X0A | 80120 | Epidural hemorrhage without loss of consciousness, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S065X0A | 80120 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S066X0A | 80120 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S02109A | 80121 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S064X0A | 80121 | Epidural hemorrhage without loss of consciousness, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S065X0A | 80121 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S066X0A | 80121 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S02109A | 80122 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S064X1A | 80122 | Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S064X2A | 80122 | Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S065X1A | 80122 | Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S065X2A | 80122 | Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S066X1A | 80122 | Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S066X2A | 80122 | Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S02109A | 80123 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S064X3A | 80123 | Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S064X4A | 80123 | Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S065X3A | 80123 | Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S065X4A | 80123 | Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S066X3A | 80123 | Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |

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| S066X4A | 80123 | Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S02109A | 80124 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S064X5A | 80124 | Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S065X5A | 80124 | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S066X5A | 80124 | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S02109A | 80125 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X6A | 80125 | Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X7A | 80125 | Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X8A | 80125 | Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X6A | 80125 | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X7A | 80125 | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X8A | 80125 | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X6A | 80125 | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X7A | 80125 | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X8A | 80125 | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S02109A | 80126 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |

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| S064X9A | 80126 | Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S065X9A | 80126 | Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S066X9A | 80126 | Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S02109A | 80129 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S064X0A | 80129 | Epidural hemorrhage without loss of consciousness, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S065X0A | 80129 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S066X0A | 80129 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S02109A | 80130 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness |
| S06360A | 80130 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness |
| S02109A | 80131 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with no loss of consciousness |
| S06360A | 80131 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with no loss of consciousness |
| S02109A | 80132 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S06361A | 80132 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S06362A | 80132 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S02109A | 80133 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S06363A | 80133 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S06364A | 80133 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S02109A | 80134 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06365A | 80134 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S02109A | 80135 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |

Appendix A
Frailty markers

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| S06366A | 80135 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06367A | 80135 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06368A | 80135 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S02109A | 80136 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration |
| S06369A | 80136 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration |
| S02109A | 80139 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified |
| S06360A | 80139 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Closed fracture of base of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified |
| S02109A | 80140 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S06890A | 80140 | Other specified intracranial injury without loss of consciousness, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S069X0A | 80140 | Unspecified intracranial injury without loss of consciousness, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S02109A | 80141 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S06890A | 80141 | Other specified intracranial injury without loss of consciousness, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S069X0A | 80141 | Unspecified intracranial injury without loss of consciousness, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S02109A | 80142 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S06891A | 80142 | Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S06892A | 80142 | Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S069X1A | 80142 | Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S069X2A | 80142 | Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S02109A | 80143 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S06893A | 80143 | Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S06894A | 80143 | Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |

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Frailty markers

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| S069X3A | 80143 | Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S069X4A | 80143 | Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S02109A | 80144 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06895A | 80144 | Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S069X5A | 80144 | Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S02109A | 80145 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06896A | 80145 | Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06897A | 80145 | Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06898A | 80145 | Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S069X6A | 80145 | Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S069X7A | 80145 | Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S069X8A | 80145 | Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S02109A | 80146 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S06899A | 80146 | Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S069X9A | 80146 | Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S02109A | 80149 | Fracture of base of skull, unspecified side, initial encounter for closed fracture | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S06890A | 80149 | Other specified intracranial injury without loss of consciousness, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S069X0A | 80149 | Unspecified intracranial injury without loss of consciousness, initial encounter | Closed fracture of base of skull with intracranial injury of other and unspecified nature, with concussion, unspecified |

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Frailty markers

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| S02109B | 80154 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S02101B | 80155 | Fracture of base of skull, right side, initial encounter for open fracture | Open fracture of base of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S02102B | 80155 | Fracture of base of skull, left side, initial encounter for open fracture | Open fracture of base of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S02109B | 80155 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S02101B | 80156 | Fracture of base of skull, right side, initial encounter for open fracture | Open fracture of base of skull without mention of intracranial injury, with loss of consciousness of unspecified duration |
| S02102B | 80156 | Fracture of base of skull, left side, initial encounter for open fracture | Open fracture of base of skull without mention of intracranial injury, with loss of consciousness of unspecified duration |
| S02109B | 80156 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull without mention of intracranial injury, with loss of consciousness of unspecified duration |
| S02101B | 80159 | Fracture of base of skull, right side, initial encounter for open fracture | Open fracture of base of skull without mention of intracranial injury, with concussion, unspecified |
| S02102B | 80159 | Fracture of base of skull, left side, initial encounter for open fracture | Open fracture of base of skull without mention of intracranial injury, with concussion, unspecified |
| S02109B | 80159 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull without mention of intracranial injury, with concussion, unspecified |
| S02109B | 80160 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with cerebral laceration and contusion, unspecified state of consciousness |
| S06330A | 80160 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Open fracture of base of skull with cerebral laceration and contusion, unspecified state of consciousness |
| S02109B | 80161 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with cerebral laceration and contusion, with no loss of consciousness |
| S06330A | 80161 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Open fracture of base of skull with cerebral laceration and contusion, with no loss of consciousness |
| S02109B | 80162 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S06331A | 80162 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter | Open fracture of base of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S06332A | 80162 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fracture of base of skull with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S02109B | 80163 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S06333A | 80163 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Open fracture of base of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S06334A | 80163 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fracture of base of skull with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S02109B | 80164 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06335A | 80164 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |

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| S02109B | 80165 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06336A | 80165 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06337A | 80165 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Open fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06338A | 80165 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Open fracture of base of skull with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S02109B | 80166 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with cerebral laceration and contusion, with loss of consciousness of unspecified duration |
| S06339A | 80166 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter | Open fracture of base of skull with cerebral laceration and contusion, with loss of consciousness of unspecified duration |
| S02109B | 80169 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with cerebral laceration and contusion, with concussion, unspecified |
| S06330A | 80169 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Open fracture of base of skull with cerebral laceration and contusion, with concussion, unspecified |
| S02109B | 80170 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S064X0A | 80170 | Epidural hemorrhage without loss of consciousness, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S065X0A | 80170 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S066X0A | 80170 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S02109B | 80171 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S064X0A | 80171 | Epidural hemorrhage without loss of consciousness, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S065X0A | 80171 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S066X0A | 80171 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S02109B | 80172 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S064X1A | 80172 | Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S064X2A | 80172 | Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S065X1A | 80172 | Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S065X2A | 80172 | Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |

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| S066X1A | 80172 | Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S066X2A | 80172 | Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S02109B | 80173 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S064X3A | 80173 | Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S064X4A | 80173 | Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S065X3A | 80173 | Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S065X4A | 80173 | Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S066X3A | 80173 | Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S066X4A | 80173 | Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S02109B | 80174 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S064X5A | 80174 | Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S065X5A | 80174 | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S066X5A | 80174 | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S02109B | 80175 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X6A | 80175 | Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X7A | 80175 | Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X8A | 80175 | Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |

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| S065X6A | 80175 | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X7A | 80175 | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X8A | 80175 | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X6A | 80175 | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X7A | 80175 | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X8A | 80175 | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S02109B | 80176 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S064X9A | 80176 | Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S065X9A | 80176 | Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S066X9A | 80176 | Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S02109B | 80179 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S064X0A | 80179 | Epidural hemorrhage without loss of consciousness, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S065X0A | 80179 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S066X0A | 80179 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S02109B | 80180 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness |
| S06360A | 80180 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Open fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness |
| S02109B | 80181 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with other and unspecified intracranial hemorrhage, with no loss of consciousness |
| S06360A | 80181 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Open fracture of base of skull with other and unspecified intracranial hemorrhage, with no loss of consciousness |
| S02109B | 80182 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S06361A | 80182 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter | Open fracture of base of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S06362A | 80182 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fracture of base of skull with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |

Appendix A
Frailty markers

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|---------|-------|--|--|
| S02109B | 80183 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S06363A | 80183 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter | Open fracture of base of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S06364A | 80183 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fracture of base of skull with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S02109B | 80184 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06365A | 80184 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S02109B | 80185 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06366A | 80185 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06367A | 80185 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Open fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06368A | 80185 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Open fracture of base of skull with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S02109B | 80186 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration |
| S06369A | 80186 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter | Open fracture of base of skull with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration |
| S02109B | 80189 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified |
| S06360A | 80189 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Open fracture of base of skull with other and unspecified intracranial hemorrhage, with concussion, unspecified |
| S02109B | 80190 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S06890A | 80190 | Other specified intracranial injury without loss of consciousness, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S069X0A | 80190 | Unspecified intracranial injury without loss of consciousness, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S02109B | 80191 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S06890A | 80191 | Other specified intracranial injury without loss of consciousness, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S069X0A | 80191 | Unspecified intracranial injury without loss of consciousness, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S02109B | 80192 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |

Appendix A
Frailty markers

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|---------|-------|---|--|
| S06891A | 80192 | Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S06892A | 80192 | Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S069X1A | 80192 | Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S069X2A | 80192 | Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S02109B | 80193 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S06893A | 80193 | Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S06894A | 80193 | Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S069X3A | 80193 | Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S069X4A | 80193 | Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S02109B | 80194 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06895A | 80194 | Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S069X5A | 80194 | Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S02109B | 80195 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06896A | 80195 | Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06897A | 80195 | Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06898A | 80195 | Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S069X6A | 80195 | Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |

Appendix A
Frailty markers

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|---------|-------|---|--|
| S069X7A | 80195 | Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S069X8A | 80195 | Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S02109B | 80196 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S06899A | 80196 | Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S069X9A | 80196 | Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S02109B | 80199 | Fracture of base of skull, unspecified side, initial encounter for open fracture | Open fracture of base of skull with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S06890A | 80199 | Other specified intracranial injury without loss of consciousness, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S069X0A | 80199 | Unspecified intracranial injury without loss of consciousness, initial encounter | Open fracture of base of skull with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S02609A | 80229 | Fracture of mandible, unspecified, initial encounter for closed fracture | Closed fracture of mandible, multiple sites |
| S0269XA | 80229 | Fracture of mandible of other specified site, initial encounter for closed fracture | Closed fracture of mandible, multiple sites |
| S02609B | 80239 | Fracture of mandible, unspecified, initial encounter for open fracture | Open fracture of mandible, multiple sites |
| S0269XB | 80239 | Fracture of mandible of other specified site, initial encounter for open fracture | Open fracture of mandible, multiple sites |
| S02411A | 8024 | LeFort I fracture, initial encounter for closed fracture | Closed fracture of malar and maxillary bones |
| S02412A | 8024 | LeFort II fracture, initial encounter for closed fracture | Closed fracture of malar and maxillary bones |
| S02413A | 8024 | LeFort III fracture, initial encounter for closed fracture | Closed fracture of malar and maxillary bones |
| S02411B | 8025 | LeFort I fracture, initial encounter for open fracture | Open fracture of malar and maxillary bones |
| S02412B | 8025 | LeFort II fracture, initial encounter for open fracture | Open fracture of malar and maxillary bones |
| S02413B | 8025 | LeFort III fracture, initial encounter for open fracture | Open fracture of malar and maxillary bones |
| S0280XA | 8028 | Fracture of other specified skull and facial bones, unspecified side, initial encounter for closed fracture | Closed fracture of other facial bones |
| S0281XA | 8028 | Fracture of other specified skull and facial bones, right side, initial encounter for closed fracture | Closed fracture of other facial bones |
| S0282XA | 8028 | Fracture of other specified skull and facial bones, left side, initial encounter for closed fracture | Closed fracture of other facial bones |
| S0280XB | 8029 | Fracture of other specified skull and facial bones, unspecified side, initial encounter for open fracture | Open fracture of other facial bones |
| S0281XB | 8029 | Fracture of other specified skull and facial bones, right side, initial encounter for open fracture | Open fracture of other facial bones |
| S0282XB | 8029 | Fracture of other specified skull and facial bones, left side, initial encounter for open fracture | Open fracture of other facial bones |
| S0291XA | 80301 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture without mention of intracranial injury, with no loss of consciousness |
| S0291XA | 80302 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture without mention of intracranial injury, with brief [less than one hour] loss of consciousness |
| S0291XA | 80303 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture without mention of intracranial injury, with moderate [1-24 hours] loss of consciousness |
| S0291XA | 80304 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S0291XA | 80305 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |

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Frailty markers

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|---------|-------|--|---|
| S0291XA | 80306 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture without mention of intracranial injury, with loss of consciousness of unspecified duration |
| S0291XA | 80309 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture without mention of intracranial injury, with concussion, unspecified |
| S0291XA | 80310 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with cerebral laceration and contusion, unspecified state of consciousness |
| S06330A | 80310 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Other closed skull fracture with cerebral laceration and contusion, unspecified state of consciousness |
| S0291XA | 80311 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with cerebral laceration and contusion, with no loss of consciousness |
| S06330A | 80311 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Other closed skull fracture with cerebral laceration and contusion, with no loss of consciousness |
| S0291XA | 80312 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S06331A | 80312 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter | Other closed skull fracture with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S06332A | 80312 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Other closed skull fracture with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S0291XA | 80313 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S06333A | 80313 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Other closed skull fracture with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S06334A | 80313 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter | Other closed skull fracture with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S0291XA | 80314 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06335A | 80314 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Other closed skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S0291XA | 80315 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06336A | 80315 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Other closed skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06337A | 80315 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Other closed skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06338A | 80315 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Other closed skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S0291XA | 80316 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with cerebral laceration and contusion, with loss of consciousness of unspecified duration |
| S06339A | 80316 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter | Other closed skull fracture with cerebral laceration and contusion, with loss of consciousness of unspecified duration |
| S0291XA | 80319 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with cerebral laceration and contusion, with concussion, unspecified |
| S06330A | 80319 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Other closed skull fracture with cerebral laceration and contusion, with concussion, unspecified |

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Frailty markers

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|---------|-------|---|---|
| S0291XA | 80324 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S064X5A | 80324 | Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S065X5A | 80324 | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S066X5A | 80324 | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S0291XA | 80325 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X6A | 80325 | Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X7A | 80325 | Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X8A | 80325 | Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X6A | 80325 | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X7A | 80325 | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X8A | 80325 | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X6A | 80325 | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X7A | 80325 | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X8A | 80325 | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S0291XA | 80326 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S064X9A | 80326 | Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |

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Frailty markers

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|---------|-------|--|---|
| S065X9A | 80326 | Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S066X9A | 80326 | Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S0291XA | 80329 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S064X0A | 80329 | Epidural hemorrhage without loss of consciousness, initial encounter | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S065X0A | 80329 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S066X0A | 80329 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S0291XA | 80330 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with other and unspecified intracranial hemorrhage, unspecified state of unconsciousness |
| S06369A | 80330 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter | Other closed skull fracture with other and unspecified intracranial hemorrhage, unspecified state of unconsciousness |
| S0291XA | 80331 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with other and unspecified intracranial hemorrhage, with no loss of consciousness |
| S06360A | 80331 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Other closed skull fracture with other and unspecified intracranial hemorrhage, with no loss of consciousness |
| S0291XA | 80332 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S06361A | 80332 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter | Other closed skull fracture with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S06362A | 80332 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Other closed skull fracture with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S0291XA | 80333 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S06363A | 80333 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter | Other closed skull fracture with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S06364A | 80333 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter | Other closed skull fracture with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S0291XA | 80334 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06365A | 80334 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Other closed skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S0291XA | 80335 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06366A | 80335 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Other closed skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06367A | 80335 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Other closed skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |

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Frailty markers

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|---------|-------|---|--|
| S06368A | 80335 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Other closed skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S0291XA | 80336 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration |
| S06369A | 80336 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter | Other closed skull fracture with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration |
| S0291XA | 80339 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with other and unspecified intracranial hemorrhage, with concussion, unspecified |
| S06360A | 80339 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Other closed skull fracture with other and unspecified intracranial hemorrhage, with concussion, unspecified |
| S0291XA | 80340 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S06890A | 80340 | Other specified intracranial injury without loss of consciousness, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S069X0A | 80340 | Unspecified intracranial injury without loss of consciousness, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S0291XA | 80341 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S06890A | 80341 | Other specified intracranial injury without loss of consciousness, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S069X0A | 80341 | Unspecified intracranial injury without loss of consciousness, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S0291XA | 80342 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S06891A | 80342 | Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S06892A | 80342 | Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S069X1A | 80342 | Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S069X2A | 80342 | Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S0291XA | 80343 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S06893A | 80343 | Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S06894A | 80343 | Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S069X3A | 80343 | Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S069X4A | 80343 | Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S0291XA | 80344 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |

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Frailty markers

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|---------|-------|---|---|
| S06895A | 80344 | Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S069X5A | 80344 | Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S0291XA | 80345 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06896A | 80345 | Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06897A | 80345 | Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06898A | 80345 | Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S069X6A | 80345 | Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S069X7A | 80345 | Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S069X8A | 80345 | Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S0291XA | 80346 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S06899A | 80346 | Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S069X9A | 80346 | Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S0291XA | 80349 | Unspecified fracture of skull, initial encounter for closed fracture | Other closed skull fracture with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S06890A | 80349 | Other specified intracranial injury without loss of consciousness, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S069X0A | 80349 | Unspecified intracranial injury without loss of consciousness, initial encounter | Other closed skull fracture with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S0291XB | 80351 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture without mention of intracranial injury, with no loss of consciousness |
| S0291XB | 80352 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture without mention of intracranial injury, with brief [less than one hour] loss of consciousness |
| S0291XB | 80353 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture without mention of intracranial injury, with moderate [1-24 hours] loss of consciousness |
| S0291XB | 80354 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |

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| S0291XB | 80355 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S0291XB | 80356 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture without mention of intracranial injury, with loss of consciousness of unspecified duration |
| S0291XB | 80359 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture without mention of intracranial injury, with concussion, unspecified |
| S0291XB | 80360 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with cerebral laceration and contusion, unspecified state of consciousness |
| S06330A | 80360 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Other open skull fracture with cerebral laceration and contusion, unspecified state of consciousness |
| S0291XB | 80361 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with cerebral laceration and contusion, with no loss of consciousness |
| S06330A | 80361 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Other open skull fracture with cerebral laceration and contusion, with no loss of consciousness |
| S0291XB | 80362 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S06331A | 80362 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter | Other open skull fracture with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S06332A | 80362 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Other open skull fracture with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S0291XB | 80363 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S06333A | 80363 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Other open skull fracture with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S06334A | 80363 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter | Other open skull fracture with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S0291XB | 80364 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06335A | 80364 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Other open skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S0291XB | 80365 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06336A | 80365 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Other open skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06337A | 80365 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Other open skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06338A | 80365 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Other open skull fracture with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S0291XB | 80366 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with cerebral laceration and contusion, with loss of consciousness of unspecified duration |
| S06339A | 80366 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter | Other open skull fracture with cerebral laceration and contusion, with loss of consciousness of unspecified duration |
| S0291XB | 80369 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with cerebral laceration and contusion, with concussion, unspecified |

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|---------|-------|---|---|
| S06330A | 80369 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Other open skull fracture with cerebral laceration and contusion, with concussion, unspecified |
| S0291XB | 80370 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S064X0A | 80370 | Epidural hemorrhage without loss of consciousness, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S065X0A | 80370 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S066X0A | 80370 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S0291XB | 80371 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S064X0A | 80371 | Epidural hemorrhage without loss of consciousness, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S065X0A | 80371 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S066X0A | 80371 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S0291XB | 80372 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S064X1A | 80372 | Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S064X2A | 80372 | Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S065X1A | 80372 | Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S065X2A | 80372 | Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S066X1A | 80372 | Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S066X2A | 80372 | Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S0291XB | 80373 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S064X3A | 80373 | Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S064X4A | 80373 | Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S065X3A | 80373 | Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S065X4A | 80373 | Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S066X3A | 80373 | Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S066X4A | 80373 | Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |

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|---------|-------|---|---|
| S0291XB | 80374 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S064X5A | 80374 | Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S065X5A | 80374 | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S066X5A | 80374 | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S0291XB | 80375 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X6A | 80375 | Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X7A | 80375 | Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X8A | 80375 | Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X6A | 80375 | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X7A | 80375 | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X8A | 80375 | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X6A | 80375 | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X7A | 80375 | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X8A | 80375 | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S0291XB | 80376 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S064X9A | 80376 | Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |

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|---------|-------|--|---|
| S065X9A | 80376 | Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S066X9A | 80376 | Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S0291XB | 80379 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S064X0A | 80379 | Epidural hemorrhage without loss of consciousness, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S065X0A | 80379 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S066X0A | 80379 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S0291XB | 80380 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with other and unspecified intracranial hemorrhage, unspecified state of consciousness |
| S06360A | 80380 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Other open skull fracture with other and unspecified intracranial hemorrhage, unspecified state of consciousness |
| S0291XB | 80381 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with other and unspecified intracranial hemorrhage, with no loss of consciousness |
| S06360A | 80381 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Other open skull fracture with other and unspecified intracranial hemorrhage, with no loss of consciousness |
| S0291XB | 80382 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S06361A | 80382 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter | Other open skull fracture with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S06362A | 80382 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Other open skull fracture with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S0291XB | 80383 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S06363A | 80383 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter | Other open skull fracture with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S06364A | 80383 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter | Other open skull fracture with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S0291XB | 80384 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06365A | 80384 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Other open skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S0291XB | 80385 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06366A | 80385 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Other open skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06367A | 80385 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Other open skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |

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| S06368A | 80385 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Other open skull fracture with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S0291XB | 80386 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration |
| S06369A | 80386 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter | Other open skull fracture with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration |
| S0291XB | 80389 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with other and unspecified intracranial hemorrhage, with concussion, unspecified |
| S06360A | 80389 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Other open skull fracture with other and unspecified intracranial hemorrhage, with concussion, unspecified |
| S0291XB | 80390 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S06890A | 80390 | Other specified intracranial injury without loss of consciousness, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S069X0A | 80390 | Unspecified intracranial injury without loss of consciousness, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S0291XB | 80391 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S06890A | 80391 | Other specified intracranial injury without loss of consciousness, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S069X0A | 80391 | Unspecified intracranial injury without loss of consciousness, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S0291XB | 80392 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S06891A | 80392 | Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S06892A | 80392 | Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S069X1A | 80392 | Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S069X2A | 80392 | Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S0291XB | 80393 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S06893A | 80393 | Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S06894A | 80393 | Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S069X3A | 80393 | Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S069X4A | 80393 | Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S0291XB | 80394 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |

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| S06895A | 80394 | Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S069X5A | 80394 | Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S0291XB | 80395 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06896A | 80395 | Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06897A | 80395 | Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06898A | 80395 | Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S069X6A | 80395 | Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S069X7A | 80395 | Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S069X8A | 80395 | Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S0291XB | 80396 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S06899A | 80396 | Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S069X9A | 80396 | Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S0291XB | 80399 | Unspecified fracture of skull, initial encounter for open fracture | Other open skull fracture with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S06890A | 80399 | Other specified intracranial injury without loss of consciousness, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S069X0A | 80399 | Unspecified intracranial injury without loss of consciousness, initial encounter | Other open skull fracture with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S0291XA | 80400 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, without mention of intracranial injury, unspecified state of consciousness |
| S0291XA | 80401 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, without mention of intracranial injury, with no loss of consciousness |
| S0291XA | 80402 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, without mention of intracranial injury, with brief [less than one hour] loss of consciousness |

Appendix A
Frailty markers

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| S0291XA | 80403 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, without mention of intracranial injury, with moderate [1-24 hours] loss of consciousness |
| S0291XA | 80404 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, without mention or intracranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S0291XA | 80405 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull of face with other bones, without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S0291XA | 80406 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull of face with other bones, without mention of intracranial injury, with loss of consciousness of unspecified duration |
| S0291XA | 80409 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull of face with other bones, without mention of intracranial injury, with concussion, unspecified |
| S0291XA | 80410 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, unspecified state of consciousness |
| S06330A | 80410 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, unspecified state of consciousness |
| S0291XA | 80411 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with no loss of consciousness |
| S06330A | 80411 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with no loss of consciousness |
| S0291XA | 80412 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S06331A | 80412 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S06332A | 80412 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S0291XA | 80413 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S06333A | 80413 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S06334A | 80413 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S0291XA | 80414 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06335A | 80414 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S0291XA | 80415 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |

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Frailty markers

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| S06336A | 80415 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06337A | 80415 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06338A | 80415 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S0291XA | 80416 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with loss of consciousness of unspecified duration |
| S06339A | 80416 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with loss of consciousness of unspecified duration |
| S0291XA | 80419 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with concussion, unspecified |
| S06330A | 80419 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, with concussion, unspecified |
| S0291XA | 80420 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S064X0A | 80420 | Epidural hemorrhage without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S065X0A | 80420 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S066X0A | 80420 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S0291XA | 80421 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S064X0A | 80421 | Epidural hemorrhage without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S065X0A | 80421 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S066X0A | 80421 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S0291XA | 80422 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S064X1A | 80422 | Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S064X2A | 80422 | Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S065X1A | 80422 | Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |

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| S065X2A | 80422 | Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S066X1A | 80422 | Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S066X2A | 80422 | Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S0291XA | 80423 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S064X3A | 80423 | Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S064X4A | 80423 | Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S065X3A | 80423 | Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S065X4A | 80423 | Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S066X3A | 80423 | Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S066X4A | 80423 | Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S0291XA | 80424 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S064X5A | 80424 | Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S065X5A | 80424 | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S066X5A | 80424 | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S0291XA | 80425 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X6A | 80425 | Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X7A | 80425 | Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X8A | 80425 | Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |

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| S065X6A | 80425 | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X7A | 80425 | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X8A | 80425 | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X6A | 80425 | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X7A | 80425 | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X8A | 80425 | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S0291XA | 80426 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S064X9A | 80426 | Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S065X9A | 80426 | Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S066X9A | 80426 | Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S0291XA | 80429 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S064X0A | 80429 | Epidural hemorrhage without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S065X0A | 80429 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S066X0A | 80429 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S0291XA | 80430 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, unspecified state of consciousness |
| S06360A | 80430 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, unspecified state of consciousness |
| S0291XA | 80431 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with no loss of consciousness |
| S06360A | 80431 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with no loss of consciousness |

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| S0291XA | 80432 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S06361A | 80432 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S06362A | 80432 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S0291XA | 80433 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S06363A | 80433 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S06364A | 80433 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S0291XA | 80434 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06365A | 80434 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S0291XA | 80435 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06366A | 80435 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06367A | 80435 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06368A | 80435 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S0291XA | 80436 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration |
| S06369A | 80436 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration |
| S0291XA | 80439 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with concussion, unspecified |
| S06360A | 80439 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with concussion, unspecified |
| S0291XA | 80440 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S06890A | 80440 | Other specified intracranial injury without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified state of consciousness |

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| S069X0A | 80440 | Unspecified intracranial injury without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S0291XA | 80441 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S06890A | 80441 | Other specified intracranial injury without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S069X0A | 80441 | Unspecified intracranial injury without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S0291XA | 80442 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S06891A | 80442 | Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S06892A | 80442 | Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S069X1A | 80442 | Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S069X2A | 80442 | Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S0291XA | 80443 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S06893A | 80443 | Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S06894A | 80443 | Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S069X4A | 80443 | Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S0291XA | 80444 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06895A | 80444 | Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S069X5A | 80444 | Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S0291XA | 80445 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06896A | 80445 | Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |

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Frailty markers

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| S06897A | 80445 | Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06898A | 80445 | Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S069X6A | 80445 | Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S069X7A | 80445 | Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S069X8A | 80445 | Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S0291XA | 80446 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S06899A | 80446 | Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S069X9A | 80446 | Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S0291XA | 80449 | Unspecified fracture of skull, initial encounter for closed fracture | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S06890A | 80449 | Other specified intracranial injury without loss of consciousness, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S069X9A | 80449 | Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter | Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S0291XB | 80450 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, without mention of intracranial injury, unspecified state of consciousness |
| S0291XB | 80451 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, without mention of intracranial injury, with no loss of consciousness |
| S0291XB | 80452 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, without mention of intracranial injury, with brief [less than one hour] loss of consciousness |
| S0291XB | 80453 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, without mention of intracranial injury, with moderate [1-24 hours] loss of consciousness |
| S0291XB | 80454 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S0291XB | 80455 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, without mention of intracranial injury, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S0291XB | 80456 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, without mention of intracranial injury, with loss of consciousness of unspecified duration |

Appendix A
Frailty markers

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| S0291XB | 80459 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, without mention of intracranial injury, with concussion, unspecified |
| S0291XB | 80460 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, unspecified state of consciousness |
| S06330A | 80460 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, unspecified state of consciousness |
| S0291XB | 80461 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with no loss of consciousness |
| S06330A | 80461 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with no loss of consciousness |
| S0291XB | 80462 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S06331A | 80462 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S06332A | 80462 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with brief [less than one hour] loss of consciousness |
| S0291XB | 80463 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S06333A | 80463 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S06334A | 80463 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with moderate [1-24 hours] loss of consciousness |
| S0291XB | 80464 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06335A | 80464 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S0291XB | 80465 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06336A | 80465 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06337A | 80465 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S06338A | 80465 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S0291XB | 80466 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with loss of consciousness of unspecified duration |

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Frailty markers

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| S06339A | 80466 | Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with loss of consciousness of unspecified duration |
| S0291XB | 80469 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with concussion, unspecified |
| S06330A | 80469 | Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones, with cerebral laceration and contusion, with concussion, unspecified |
| S0291XB | 80470 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S064X0A | 80470 | Epidural hemorrhage without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S065X0A | 80470 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S066X0A | 80470 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness |
| S0291XB | 80471 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S064X0A | 80471 | Epidural hemorrhage without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S065X0A | 80471 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S066X0A | 80471 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with no loss of consciousness |
| S0291XB | 80472 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S064X1A | 80472 | Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S064X2A | 80472 | Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S065X1A | 80472 | Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S065X2A | 80472 | Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S066X1A | 80472 | Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S066X2A | 80472 | Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with brief [less than one hour] loss of consciousness |
| S0291XB | 80473 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S064X3A | 80473 | Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |

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Frailty markers

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| S064X4A | 80473 | Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S065X3A | 80473 | Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S065X4A | 80473 | Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S066X3A | 80473 | Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S066X4A | 80473 | Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S0291XB | 80474 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S064X5A | 80474 | Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S065X5A | 80474 | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S066X5A | 80474 | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S0291XB | 80475 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X6A | 80475 | Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X7A | 80475 | Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S064X8A | 80475 | Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X6A | 80475 | Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X7A | 80475 | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S065X8A | 80475 | Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |

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Frailty markers

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| S066X6A | 80475 | Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X7A | 80475 | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S066X8A | 80475 | Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with prolonged [more than 24 hours] loss of consciousness, without return to pre-existing conscious level |
| S0291XB | 80476 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S064X9A | 80476 | Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S065X9A | 80476 | Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S066X9A | 80476 | Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with loss of consciousness of unspecified duration |
| S0291XB | 80479 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S064X0A | 80479 | Epidural hemorrhage without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S065X0A | 80479 | Traumatic subdural hemorrhage without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S066X0A | 80479 | Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, with concussion, unspecified |
| S0291XB | 80480 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, unspecified state of consciousness |
| S06360A | 80480 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, unspecified state of consciousness |
| S0291XB | 80481 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with no loss of consciousness |
| S06360A | 80481 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with no loss of consciousness |
| S0291XB | 80482 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S06361A | 80482 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S06362A | 80482 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with brief [less than one hour] loss of consciousness |
| S0291XB | 80483 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |

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Frailty markers

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| S06363A | 80483 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S06364A | 80483 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with moderate [1-24 hours] loss of consciousness |
| S0291XB | 80484 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06365A | 80484 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S0291XB | 80485 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss consciousness, without return to pre-existing conscious level |
| S06366A | 80485 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss consciousness, without return to pre-existing conscious level |
| S06367A | 80485 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss consciousness, without return to pre-existing conscious level |
| S06368A | 80485 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with prolonged [more than 24 hours] loss consciousness, without return to pre-existing conscious level |
| S0291XB | 80486 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration |
| S06369A | 80486 | Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with loss of consciousness of unspecified duration |
| S0291XB | 80489 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with concussion, unspecified |
| S06360A | 80489 | Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, with concussion, unspecified |
| S0291XB | 80490 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S06890A | 80490 | Other specified intracranial injury without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S069X0A | 80490 | Unspecified intracranial injury without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified state of consciousness |
| S0291XB | 80491 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S06890A | 80491 | Other specified intracranial injury without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with no loss of consciousness |
| S069X0A | 80491 | Unspecified intracranial injury without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with no loss of consciousness |

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Frailty markers

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| S0291XB | 80492 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S06891A | 80492 | Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S06892A | 80492 | Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S069X1A | 80492 | Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S069X2A | 80492 | Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with brief [less than one hour] loss of consciousness |
| S0291XB | 80493 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S06893A | 80493 | Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S06894A | 80493 | Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S069X4A | 80493 | Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with moderate [1-24 hours] loss of consciousness |
| S0291XB | 80494 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S06895A | 80494 | Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S069X5A | 80494 | Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness and return to pre-existing conscious level |
| S0291XB | 80495 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level |
| S06896A | 80495 | Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level |
| S06897A | 80495 | Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level |
| S06898A | 80495 | Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level |
| S069X6A | 80495 | Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level |

Appendix A
Frailty markers

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|---------|-------|---|---|
| S069X7A | 80495 | Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level |
| S069X8A | 80495 | Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with prolonged [more than 24 hours] loss of consciousness without return to pre-existing conscious level |
| S0291XB | 80496 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S06899A | 80496 | Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S069X9A | 80496 | Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with loss of consciousness of unspecified duration |
| S0291XB | 80499 | Unspecified fracture of skull, initial encounter for open fracture | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S06890A | 80499 | Other specified intracranial injury without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S069X0A | 80499 | Unspecified intracranial injury without loss of consciousness, initial encounter | Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, with concussion, unspecified |
| S1201XA | 80501 | Stable burst fracture of first cervical vertebra, initial encounter for closed fracture | Closed fracture of first cervical vertebra |
| S1202XA | 80501 | Unstable burst fracture of first cervical vertebra, initial encounter for closed fracture | Closed fracture of first cervical vertebra |
| S12030A | 80501 | Displaced posterior arch fracture of first cervical vertebra, initial encounter for closed fracture | Closed fracture of first cervical vertebra |
| S12031A | 80501 | Nondisplaced posterior arch fracture of first cervical vertebra, initial encounter for closed fracture | Closed fracture of first cervical vertebra |
| S12040A | 80501 | Displaced lateral mass fracture of first cervical vertebra, initial encounter for closed fracture | Closed fracture of first cervical vertebra |
| S12041A | 80501 | Nondisplaced lateral mass fracture of first cervical vertebra, initial encounter for closed fracture | Closed fracture of first cervical vertebra |
| S12090A | 80501 | Other displaced fracture of first cervical vertebra, initial encounter for closed fracture | Closed fracture of first cervical vertebra |
| S12091A | 80501 | Other nondisplaced fracture of first cervical vertebra, initial encounter for closed fracture | Closed fracture of first cervical vertebra |
| S12110A | 80502 | Anterior displaced Type II dens fracture, initial encounter for closed fracture | Closed fracture of second cervical vertebra |
| S12111A | 80502 | Posterior displaced Type II dens fracture, initial encounter for closed fracture | Closed fracture of second cervical vertebra |
| S12112A | 80502 | Nondisplaced Type II dens fracture, initial encounter for closed fracture | Closed fracture of second cervical vertebra |
| S12120A | 80502 | Other displaced dens fracture, initial encounter for closed fracture | Closed fracture of second cervical vertebra |
| S12121A | 80502 | Other nondisplaced dens fracture, initial encounter for closed fracture | Closed fracture of second cervical vertebra |
| S12130A | 80502 | Unspecified traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for closed fracture | Closed fracture of second cervical vertebra |
| S12131A | 80502 | Unspecified traumatic nondisplaced spondylolisthesis of second cervical vertebra, initial encounter for closed fracture | Closed fracture of second cervical vertebra |
| S1214XA | 80502 | Type III traumatic spondylolisthesis of second cervical vertebra, initial encounter for closed fracture | Closed fracture of second cervical vertebra |
| S12150A | 80502 | Other traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for closed fracture | Closed fracture of second cervical vertebra |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|---|
| S12591A | 80506 | Other nondisplaced fracture of sixth cervical vertebra, initial encounter for closed fracture | Closed fracture of sixth cervical vertebra |
| S12630A | 80507 | Unspecified traumatic displaced spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture | Closed fracture of seventh cervical vertebra |
| S12631A | 80507 | Unspecified traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture | Closed fracture of seventh cervical vertebra |
| S1264XA | 80507 | Type III traumatic spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture | Closed fracture of seventh cervical vertebra |
| S12650A | 80507 | Other traumatic displaced spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture | Closed fracture of seventh cervical vertebra |
| S12651A | 80507 | Other traumatic nondisplaced spondylolisthesis of seventh cervical vertebra, initial encounter for closed fracture | Closed fracture of seventh cervical vertebra |
| S12690A | 80507 | Other displaced fracture of seventh cervical vertebra, initial encounter for closed fracture | Closed fracture of seventh cervical vertebra |
| S12691A | 80507 | Other nondisplaced fracture of seventh cervical vertebra, initial encounter for closed fracture | Closed fracture of seventh cervical vertebra |
| S129XXA | 80508 | Fracture of neck, unspecified, initial encounter | Closed fracture of multiple cervical vertebrae |
| S129XXA | 80510 | Fracture of neck, unspecified, initial encounter | Open fracture of cervical vertebra, unspecified level |
| S1201XB | 80511 | Stable burst fracture of first cervical vertebra, initial encounter for open fracture | Open fracture of first cervical vertebra |
| S1202XB | 80511 | Unstable burst fracture of first cervical vertebra, initial encounter for open fracture | Open fracture of first cervical vertebra |
| S12030B | 80511 | Displaced posterior arch fracture of first cervical vertebra, initial encounter for open fracture | Open fracture of first cervical vertebra |
| S12031B | 80511 | Nondisplaced posterior arch fracture of first cervical vertebra, initial encounter for open fracture | Open fracture of first cervical vertebra |
| S12040B | 80511 | Displaced lateral mass fracture of first cervical vertebra, initial encounter for open fracture | Open fracture of first cervical vertebra |
| S12041B | 80511 | Nondisplaced lateral mass fracture of first cervical vertebra, initial encounter for open fracture | Open fracture of first cervical vertebra |
| S12090B | 80511 | Other displaced fracture of first cervical vertebra, initial encounter for open fracture | Open fracture of first cervical vertebra |
| S12091B | 80511 | Other nondisplaced fracture of first cervical vertebra, initial encounter for open fracture | Open fracture of first cervical vertebra |
| S12110B | 80512 | Anterior displaced Type II dens fracture, initial encounter for open fracture | Open fracture of second cervical vertebra |
| S12111B | 80512 | Posterior displaced Type II dens fracture, initial encounter for open fracture | Open fracture of second cervical vertebra |
| S12112B | 80512 | Nondisplaced Type II dens fracture, initial encounter for open fracture | Open fracture of second cervical vertebra |
| S12120B | 80512 | Other displaced dens fracture, initial encounter for open fracture | Open fracture of second cervical vertebra |
| S12121B | 80512 | Other nondisplaced dens fracture, initial encounter for open fracture | Open fracture of second cervical vertebra |
| S12130B | 80512 | Unspecified traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture | Open fracture of second cervical vertebra |
| S12131B | 80512 | Unspecified traumatic nondisplaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture | Open fracture of second cervical vertebra |
| S1214XB | 80512 | Type III traumatic spondylolisthesis of second cervical vertebra, initial encounter for open fracture | Open fracture of second cervical vertebra |
| S12150B | 80512 | Other traumatic displaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture | Open fracture of second cervical vertebra |
| S12151B | 80512 | Other traumatic nondisplaced spondylolisthesis of second cervical vertebra, initial encounter for open fracture | Open fracture of second cervical vertebra |
| S12190B | 80512 | Other displaced fracture of second cervical vertebra, initial encounter for open fracture | Open fracture of second cervical vertebra |
| S12191B | 80512 | Other nondisplaced fracture of second cervical vertebra, initial encounter for open fracture | Open fracture of second cervical vertebra |

Appendix A
Frailty markers

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|---------|-------|--|---|
| S129XA | 8058 | Fracture of neck, unspecified, initial encounter | Closed fracture of unspecified vertebral column without mention of spinal cord injury |
| S22009A | 8058 | Unspecified fracture of unspecified thoracic vertebra, initial encounter for closed fracture | Closed fracture of unspecified vertebral column without mention of spinal cord injury |
| S32009A | 8058 | Unspecified fracture of unspecified lumbar vertebra, initial encounter for closed fracture | Closed fracture of unspecified vertebral column without mention of spinal cord injury |
| S3210XA | 8058 | Unspecified fracture of sacrum, initial encounter for closed fracture | Closed fracture of unspecified vertebral column without mention of spinal cord injury |
| S322XXA | 8058 | Fracture of coccyx, initial encounter for closed fracture | Closed fracture of unspecified vertebral column without mention of spinal cord injury |
| S129XA | 8059 | Fracture of neck, unspecified, initial encounter | Open fracture of unspecified vertebral column without mention of spinal cord injury |
| S22009B | 8059 | Unspecified fracture of unspecified thoracic vertebra, initial encounter for open fracture | Open fracture of unspecified vertebral column without mention of spinal cord injury |
| S32009B | 8059 | Unspecified fracture of unspecified lumbar vertebra, initial encounter for open fracture | Open fracture of unspecified vertebral column without mention of spinal cord injury |
| S3210XB | 8059 | Unspecified fracture of sacrum, initial encounter for open fracture | Open fracture of unspecified vertebral column without mention of spinal cord injury |
| S322XXB | 8059 | Fracture of coccyx, initial encounter for open fracture | Open fracture of unspecified vertebral column without mention of spinal cord injury |
| S12000A | 80600 | Unspecified displaced fracture of first cervical vertebra, initial encounter for closed fracture | Closed fracture of C1-C4 level with unspecified spinal cord injury |
| S12001A | 80600 | Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for closed fracture | Closed fracture of C1-C4 level with unspecified spinal cord injury |
| S12100A | 80600 | Unspecified displaced fracture of second cervical vertebra, initial encounter for closed fracture | Closed fracture of C1-C4 level with unspecified spinal cord injury |
| S12101A | 80600 | Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for closed fracture | Closed fracture of C1-C4 level with unspecified spinal cord injury |
| S12200A | 80600 | Unspecified displaced fracture of third cervical vertebra, initial encounter for closed fracture | Closed fracture of C1-C4 level with unspecified spinal cord injury |
| S12201A | 80600 | Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for closed fracture | Closed fracture of C1-C4 level with unspecified spinal cord injury |
| S12300A | 80600 | Unspecified displaced fracture of fourth cervical vertebra, initial encounter for closed fracture | Closed fracture of C1-C4 level with unspecified spinal cord injury |
| S12301A | 80600 | Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for closed fracture | Closed fracture of C1-C4 level with unspecified spinal cord injury |
| S14101A | 80600 | Unspecified injury at C1 level of cervical spinal cord, initial encounter | Closed fracture of C1-C4 level with unspecified spinal cord injury |
| S14102A | 80600 | Unspecified injury at C2 level of cervical spinal cord, initial encounter | Closed fracture of C1-C4 level with unspecified spinal cord injury |
| S14103A | 80600 | Unspecified injury at C3 level of cervical spinal cord, initial encounter | Closed fracture of C1-C4 level with unspecified spinal cord injury |
| S14104A | 80600 | Unspecified injury at C4 level of cervical spinal cord, initial encounter | Closed fracture of C1-C4 level with unspecified spinal cord injury |
| S12000A | 80601 | Unspecified displaced fracture of first cervical vertebra, initial encounter for closed fracture | Closed fracture of C1-C4 level with complete lesion of cord |
| S12001A | 80601 | Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for closed fracture | Closed fracture of C1-C4 level with complete lesion of cord |
| S12100A | 80601 | Unspecified displaced fracture of second cervical vertebra, initial encounter for closed fracture | Closed fracture of C1-C4 level with complete lesion of cord |
| S12101A | 80601 | Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for closed fracture | Closed fracture of C1-C4 level with complete lesion of cord |
| S12200A | 80601 | Unspecified displaced fracture of third cervical vertebra, initial encounter for closed fracture | Closed fracture of C1-C4 level with complete lesion of cord |
| S12201A | 80601 | Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for closed fracture | Closed fracture of C1-C4 level with complete lesion of cord |
| S12300A | 80601 | Unspecified displaced fracture of fourth cervical vertebra, initial encounter for closed fracture | Closed fracture of C1-C4 level with complete lesion of cord |
| S12301A | 80601 | Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for closed fracture | Closed fracture of C1-C4 level with complete lesion of cord |
| S14111A | 80601 | Complete lesion at C1 level of cervical spinal cord, initial encounter | Closed fracture of C1-C4 level with complete lesion of cord |

Appendix A
Frailty markers

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|---------|-------|---|--|
| S12601A | 80607 | Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for closed fracture | Closed fracture of C5-C7 level with anterior cord syndrome |
| S14135A | 80607 | Anterior cord syndrome at C5 level of cervical spinal cord, initial encounter | Closed fracture of C5-C7 level with anterior cord syndrome |
| S14136A | 80607 | Anterior cord syndrome at C6 level of cervical spinal cord, initial encounter | Closed fracture of C5-C7 level with anterior cord syndrome |
| S14137A | 80607 | Anterior cord syndrome at C7 level of cervical spinal cord, initial encounter | Closed fracture of C5-C7 level with anterior cord syndrome |
| S12400A | 80608 | Unspecified displaced fracture of fifth cervical vertebra, initial encounter for closed fracture | Closed fracture of C5-C7 level with central cord syndrome |
| S12401A | 80608 | Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for closed fracture | Closed fracture of C5-C7 level with central cord syndrome |
| S12500A | 80608 | Unspecified displaced fracture of sixth cervical vertebra, initial encounter for closed fracture | Closed fracture of C5-C7 level with central cord syndrome |
| S12501A | 80608 | Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for closed fracture | Closed fracture of C5-C7 level with central cord syndrome |
| S12600A | 80608 | Unspecified displaced fracture of seventh cervical vertebra, initial encounter for closed fracture | Closed fracture of C5-C7 level with central cord syndrome |
| S12601A | 80608 | Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for closed fracture | Closed fracture of C5-C7 level with central cord syndrome |
| S14125A | 80608 | Central cord syndrome at C5 level of cervical spinal cord, initial encounter | Closed fracture of C5-C7 level with central cord syndrome |
| S14126A | 80608 | Central cord syndrome at C6 level of cervical spinal cord, initial encounter | Closed fracture of C5-C7 level with central cord syndrome |
| S14127A | 80608 | Central cord syndrome at C7 level of cervical spinal cord, initial encounter | Closed fracture of C5-C7 level with central cord syndrome |
| S12400A | 80609 | Unspecified displaced fracture of fifth cervical vertebra, initial encounter for closed fracture | Closed fracture of C5-C7 level with other specified spinal cord injury |
| S12401A | 80609 | Unspecified nondisplaced fracture of fifth cervical vertebra, initial encounter for closed fracture | Closed fracture of C5-C7 level with other specified spinal cord injury |
| S12500A | 80609 | Unspecified displaced fracture of sixth cervical vertebra, initial encounter for closed fracture | Closed fracture of C5-C7 level with other specified spinal cord injury |
| S12501A | 80609 | Unspecified nondisplaced fracture of sixth cervical vertebra, initial encounter for closed fracture | Closed fracture of C5-C7 level with other specified spinal cord injury |
| S12600A | 80609 | Unspecified displaced fracture of seventh cervical vertebra, initial encounter for closed fracture | Closed fracture of C5-C7 level with other specified spinal cord injury |
| S12601A | 80609 | Unspecified nondisplaced fracture of seventh cervical vertebra, initial encounter for closed fracture | Closed fracture of C5-C7 level with other specified spinal cord injury |
| S14155A | 80609 | Other incomplete lesion at C5 level of cervical spinal cord, initial encounter | Closed fracture of C5-C7 level with other specified spinal cord injury |
| S14156A | 80609 | Other incomplete lesion at C6 level of cervical spinal cord, initial encounter | Closed fracture of C5-C7 level with other specified spinal cord injury |
| S14157A | 80609 | Other incomplete lesion at C7 level of cervical spinal cord, initial encounter | Closed fracture of C5-C7 level with other specified spinal cord injury |
| S12000B | 80610 | Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with unspecified spinal cord injury |
| S12001B | 80610 | Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with unspecified spinal cord injury |
| S12100B | 80610 | Unspecified displaced fracture of second cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with unspecified spinal cord injury |
| S12101B | 80610 | Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with unspecified spinal cord injury |
| S12200B | 80610 | Unspecified displaced fracture of third cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with unspecified spinal cord injury |
| S12201B | 80610 | Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with unspecified spinal cord injury |
| S12300B | 80610 | Unspecified displaced fracture of fourth cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with unspecified spinal cord injury |
| S12301B | 80610 | Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with unspecified spinal cord injury |
| S14101A | 80610 | Unspecified injury at C1 level of cervical spinal cord, initial encounter | Open fracture of C1-C4 level with unspecified spinal cord injury |

Appendix A
Frailty markers

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|---------|-------|--|--|
| S14102A | 80610 | Unspecified injury at C2 level of cervical spinal cord, initial encounter | Open fracture of C1-C4 level with unspecified spinal cord injury |
| S14103A | 80610 | Unspecified injury at C3 level of cervical spinal cord, initial encounter | Open fracture of C1-C4 level with unspecified spinal cord injury |
| S14104A | 80610 | Unspecified injury at C4 level of cervical spinal cord, initial encounter | Open fracture of C1-C4 level with unspecified spinal cord injury |
| S12000B | 80611 | Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with complete lesion of cord |
| S12001B | 80611 | Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with complete lesion of cord |
| S12100B | 80611 | Unspecified displaced fracture of second cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with complete lesion of cord |
| S12101B | 80611 | Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with complete lesion of cord |
| S12200B | 80611 | Unspecified displaced fracture of third cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with complete lesion of cord |
| S12201B | 80611 | Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with complete lesion of cord |
| S12300B | 80611 | Unspecified displaced fracture of fourth cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with complete lesion of cord |
| S12301B | 80611 | Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with complete lesion of cord |
| S14111A | 80611 | Complete lesion at C1 level of cervical spinal cord, initial encounter | Open fracture of C1-C4 level with complete lesion of cord |
| S14112A | 80611 | Complete lesion at C2 level of cervical spinal cord, initial encounter | Open fracture of C1-C4 level with complete lesion of cord |
| S14113A | 80611 | Complete lesion at C3 level of cervical spinal cord, initial encounter | Open fracture of C1-C4 level with complete lesion of cord |
| S14114A | 80611 | Complete lesion at C4 level of cervical spinal cord, initial encounter | Open fracture of C1-C4 level with complete lesion of cord |
| S12000B | 80612 | Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with anterior cord syndrome |
| S12001B | 80612 | Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with anterior cord syndrome |
| S12100B | 80612 | Unspecified displaced fracture of second cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with anterior cord syndrome |
| S12101B | 80612 | Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with anterior cord syndrome |
| S12200B | 80612 | Unspecified displaced fracture of third cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with anterior cord syndrome |
| S12201B | 80612 | Unspecified nondisplaced fracture of third cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with anterior cord syndrome |
| S12300B | 80612 | Unspecified displaced fracture of fourth cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with anterior cord syndrome |
| S12301B | 80612 | Unspecified nondisplaced fracture of fourth cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with anterior cord syndrome |
| S14131A | 80612 | Anterior cord syndrome at C1 level of cervical spinal cord, initial encounter | Open fracture of C1-C4 level with anterior cord syndrome |
| S14132A | 80612 | Anterior cord syndrome at C2 level of cervical spinal cord, initial encounter | Open fracture of C1-C4 level with anterior cord syndrome |
| S14133A | 80612 | Anterior cord syndrome at C3 level of cervical spinal cord, initial encounter | Open fracture of C1-C4 level with anterior cord syndrome |
| S14134A | 80612 | Anterior cord syndrome at C4 level of cervical spinal cord, initial encounter | Open fracture of C1-C4 level with anterior cord syndrome |
| S12000B | 80613 | Unspecified displaced fracture of first cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with central cord syndrome |
| S12001B | 80613 | Unspecified nondisplaced fracture of first cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with central cord syndrome |
| S12100B | 80613 | Unspecified displaced fracture of second cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with central cord syndrome |
| S12101B | 80613 | Unspecified nondisplaced fracture of second cervical vertebra, initial encounter for open fracture | Open fracture of C1-C4 level with central cord syndrome |

Appendix A
Frailty markers

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|---------|-------|---|--|
| S14155A | 80619 | Other incomplete lesion at C5 level of cervical spinal cord, initial encounter | Open fracture of C5-C7 level with other specified spinal cord injury |
| S14156A | 80619 | Other incomplete lesion at C6 level of cervical spinal cord, initial encounter | Open fracture of C5-C7 level with other specified spinal cord injury |
| S14157A | 80619 | Other incomplete lesion at C7 level of cervical spinal cord, initial encounter | Open fracture of C5-C7 level with other specified spinal cord injury |
| S22019A | 80620 | Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with unspecified spinal cord injury |
| S22029A | 80620 | Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with unspecified spinal cord injury |
| S22039A | 80620 | Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with unspecified spinal cord injury |
| S22049A | 80620 | Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with unspecified spinal cord injury |
| S22059A | 80620 | Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with unspecified spinal cord injury |
| S24101A | 80620 | Unspecified injury at T1 level of thoracic spinal cord, initial encounter | Closed fracture of T1-T6 level with unspecified spinal cord injury |
| S24102A | 80620 | Unspecified injury at T2-T6 level of thoracic spinal cord, initial encounter | Closed fracture of T1-T6 level with unspecified spinal cord injury |
| S22019A | 80621 | Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with complete lesion of cord |
| S22029A | 80621 | Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with complete lesion of cord |
| S22039A | 80621 | Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with complete lesion of cord |
| S22049A | 80621 | Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with complete lesion of cord |
| S22059A | 80621 | Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with complete lesion of cord |
| S24111A | 80621 | Complete lesion at T1 level of thoracic spinal cord, initial encounter | Closed fracture of T1-T6 level with complete lesion of cord |
| S24112A | 80621 | Complete lesion at T2-T6 level of thoracic spinal cord, initial encounter | Closed fracture of T1-T6 level with complete lesion of cord |
| S22019A | 80622 | Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with anterior cord syndrome |
| S22029A | 80622 | Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with anterior cord syndrome |
| S22039A | 80622 | Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with anterior cord syndrome |
| S22049A | 80622 | Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with anterior cord syndrome |
| S22059A | 80622 | Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with anterior cord syndrome |
| S24131A | 80622 | Anterior cord syndrome at T1 level of thoracic spinal cord, initial encounter | Closed fracture of T1-T6 level with anterior cord syndrome |
| S24132A | 80622 | Anterior cord syndrome at T2-T6 level of thoracic spinal cord, initial encounter | Closed fracture of T1-T6 level with anterior cord syndrome |
| S22019A | 80623 | Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with central cord syndrome |
| S22029A | 80623 | Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with central cord syndrome |
| S22039A | 80623 | Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with central cord syndrome |
| S22049A | 80623 | Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with central cord syndrome |
| S22059A | 80623 | Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with central cord syndrome |
| S24151A | 80623 | Other incomplete lesion at T1 level of thoracic spinal cord, initial encounter | Closed fracture of T1-T6 level with central cord syndrome |
| S24152A | 80623 | Other incomplete lesion at T2-T6 level of thoracic spinal cord, initial encounter | Closed fracture of T1-T6 level with central cord syndrome |

Appendix A
Frailty markers

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|---------|-------|---|---|
| S22019A | 80624 | Unspecified fracture of first thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with other specified spinal cord injury |
| S22029A | 80624 | Unspecified fracture of second thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with other specified spinal cord injury |
| S22039A | 80624 | Unspecified fracture of third thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with other specified spinal cord injury |
| S22049A | 80624 | Unspecified fracture of fourth thoracic vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with other specified spinal cord injury |
| S22059A | 80624 | Unspecified fracture of T5-T6 vertebra, initial encounter for closed fracture | Closed fracture of T1-T6 level with other specified spinal cord injury |
| S24151A | 80624 | Other incomplete lesion at T1 level of thoracic spinal cord, initial encounter | Closed fracture of T1-T6 level with other specified spinal cord injury |
| S24152A | 80624 | Other incomplete lesion at T2-T6 level of thoracic spinal cord, initial encounter | Closed fracture of T1-T6 level with other specified spinal cord injury |
| S22069A | 80625 | Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture | Closed fracture of T7-T12 level with unspecified spinal cord injury |
| S22079A | 80625 | Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture | Closed fracture of T7-T12 level with unspecified spinal cord injury |
| S22089A | 80625 | Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture | Closed fracture of T7-T12 level with unspecified spinal cord injury |
| S24103A | 80625 | Unspecified injury at T7-T10 level of thoracic spinal cord, initial encounter | Closed fracture of T7-T12 level with unspecified spinal cord injury |
| S24104A | 80625 | Unspecified injury at T11-T12 level of thoracic spinal cord, initial encounter | Closed fracture of T7-T12 level with unspecified spinal cord injury |
| S22069A | 80626 | Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture | Closed fracture of T7-T12 level with complete lesion of cord |
| S22079A | 80626 | Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture | Closed fracture of T7-T12 level with complete lesion of cord |
| S22089A | 80626 | Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture | Closed fracture of T7-T12 level with complete lesion of cord |
| S24113A | 80626 | Complete lesion at T7-T10 level of thoracic spinal cord, initial encounter | Closed fracture of T7-T12 level with complete lesion of cord |
| S24114A | 80626 | Complete lesion at T11-T12 level of thoracic spinal cord, initial encounter | Closed fracture of T7-T12 level with complete lesion of cord |
| S22069A | 80627 | Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture | Closed fracture of T7-T12 level with anterior cord syndrome |
| S22079A | 80627 | Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture | Closed fracture of T7-T12 level with anterior cord syndrome |
| S22089A | 80627 | Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture | Closed fracture of T7-T12 level with anterior cord syndrome |
| S24133A | 80627 | Anterior cord syndrome at T7-T10 level of thoracic spinal cord, initial encounter | Closed fracture of T7-T12 level with anterior cord syndrome |
| S24134A | 80627 | Anterior cord syndrome at T11-T12 level of thoracic spinal cord, initial encounter | Closed fracture of T7-T12 level with anterior cord syndrome |
| S22069A | 80628 | Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture | Closed fracture of T7-T12 level with central cord syndrome |
| S22079A | 80628 | Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture | Closed fracture of T7-T12 level with central cord syndrome |
| S22089A | 80628 | Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture | Closed fracture of T7-T12 level with central cord syndrome |
| S24153A | 80628 | Other incomplete lesion at T7-T10 level of thoracic spinal cord, initial encounter | Closed fracture of T7-T12 level with central cord syndrome |
| S24154A | 80628 | Other incomplete lesion at T11-T12 level of thoracic spinal cord, initial encounter | Closed fracture of T7-T12 level with central cord syndrome |
| S22069A | 80629 | Unspecified fracture of T7-T8 vertebra, initial encounter for closed fracture | Closed fracture of T7-T12 level with other specified spinal cord injury |
| S22079A | 80629 | Unspecified fracture of T9-T10 vertebra, initial encounter for closed fracture | Closed fracture of T7-T12 level with other specified spinal cord injury |
| S22089A | 80629 | Unspecified fracture of T11-T12 vertebra, initial encounter for closed fracture | Closed fracture of T7-T12 level with other specified spinal cord injury |
| S24153A | 80629 | Other incomplete lesion at T7-T10 level of thoracic spinal cord, initial encounter | Closed fracture of T7-T12 level with other specified spinal cord injury |

Appendix A
Frailty markers

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|---------|-------|---|---|
| S24154A | 80629 | Other incomplete lesion at T11-T12 level of thoracic spinal cord, initial encounter | Closed fracture of T7-T12 level with other specified spinal cord injury |
| S22019B | 80630 | Unspecified fracture of first thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with unspecified spinal cord injury |
| S22029B | 80630 | Unspecified fracture of second thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with unspecified spinal cord injury |
| S22039B | 80630 | Unspecified fracture of third thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with unspecified spinal cord injury |
| S22049B | 80630 | Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with unspecified spinal cord injury |
| S22059B | 80630 | Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with unspecified spinal cord injury |
| S24101A | 80630 | Unspecified injury at T1 level of thoracic spinal cord, initial encounter | Open fracture of T1-T6 level with unspecified spinal cord injury |
| S24102A | 80630 | Unspecified injury at T2-T6 level of thoracic spinal cord, initial encounter | Open fracture of T1-T6 level with unspecified spinal cord injury |
| S22019B | 80631 | Unspecified fracture of first thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with complete lesion of cord |
| S22029B | 80631 | Unspecified fracture of second thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with complete lesion of cord |
| S22039B | 80631 | Unspecified fracture of third thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with complete lesion of cord |
| S22049B | 80631 | Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with complete lesion of cord |
| S22059B | 80631 | Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with complete lesion of cord |
| S24111A | 80631 | Complete lesion at T1 level of thoracic spinal cord, initial encounter | Open fracture of T1-T6 level with complete lesion of cord |
| S24112A | 80631 | Complete lesion at T2-T6 level of thoracic spinal cord, initial encounter | Open fracture of T1-T6 level with complete lesion of cord |
| S22019B | 80632 | Unspecified fracture of first thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with anterior cord syndrome |
| S22029B | 80632 | Unspecified fracture of second thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with anterior cord syndrome |
| S22039B | 80632 | Unspecified fracture of third thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with anterior cord syndrome |
| S22049B | 80632 | Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with anterior cord syndrome |
| S22059B | 80632 | Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with anterior cord syndrome |
| S24131A | 80632 | Anterior cord syndrome at T1 level of thoracic spinal cord, initial encounter | Open fracture of T1-T6 level with anterior cord syndrome |
| S24132A | 80632 | Anterior cord syndrome at T2-T6 level of thoracic spinal cord, initial encounter | Open fracture of T1-T6 level with anterior cord syndrome |
| S22019B | 80633 | Unspecified fracture of first thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with central cord syndrome |
| S22029B | 80633 | Unspecified fracture of second thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with central cord syndrome |
| S22039B | 80633 | Unspecified fracture of third thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with central cord syndrome |
| S22049B | 80633 | Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with central cord syndrome |
| S22059B | 80633 | Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with central cord syndrome |
| S24151A | 80633 | Other incomplete lesion at T1 level of thoracic spinal cord, initial encounter | Open fracture of T1-T6 level with central cord syndrome |
| S24152A | 80633 | Other incomplete lesion at T2-T6 level of thoracic spinal cord, initial encounter | Open fracture of T1-T6 level with central cord syndrome |
| S22019B | 80634 | Unspecified fracture of first thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with other specified spinal cord injury |
| S22029B | 80634 | Unspecified fracture of second thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with other specified spinal cord injury |

Appendix A
Frailty markers

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|---------|-------|--|---|
| S22039B | 80634 | Unspecified fracture of third thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with other specified spinal cord injury |
| S22049B | 80634 | Unspecified fracture of fourth thoracic vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with other specified spinal cord injury |
| S22059B | 80634 | Unspecified fracture of T5-T6 vertebra, initial encounter for open fracture | Open fracture of T1-T6 level with other specified spinal cord injury |
| S24151A | 80634 | Other incomplete lesion at T1 level of thoracic spinal cord, initial encounter | Open fracture of T1-T6 level with other specified spinal cord injury |
| S24152A | 80634 | Other incomplete lesion at T2-T6 level of thoracic spinal cord, initial encounter | Open fracture of T1-T6 level with other specified spinal cord injury |
| S22069B | 80635 | Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture | Open fracture of T7-T12 level with unspecified spinal cord injury |
| S22079B | 80635 | Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture | Open fracture of T7-T12 level with unspecified spinal cord injury |
| S22089B | 80635 | Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture | Open fracture of T7-T12 level with unspecified spinal cord injury |
| S24103A | 80635 | Unspecified injury at T7-T10 level of thoracic spinal cord, initial encounter | Open fracture of T7-T12 level with unspecified spinal cord injury |
| S24104A | 80635 | Unspecified injury at T11-T12 level of thoracic spinal cord, initial encounter | Open fracture of T7-T12 level with unspecified spinal cord injury |
| S22069B | 80636 | Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture | Open fracture of T7-T12 level with complete lesion of cord |
| S22079B | 80636 | Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture | Open fracture of T7-T12 level with complete lesion of cord |
| S22089B | 80636 | Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture | Open fracture of T7-T12 level with complete lesion of cord |
| S24113A | 80636 | Complete lesion at T7-T10 level of thoracic spinal cord, initial encounter | Open fracture of T7-T12 level with complete lesion of cord |
| S24114A | 80636 | Complete lesion at T11-T12 level of thoracic spinal cord, initial encounter | Open fracture of T7-T12 level with complete lesion of cord |
| S22069B | 80637 | Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture | Open fracture of T7-T12 level with anterior cord syndrome |
| S22079B | 80637 | Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture | Open fracture of T7-T12 level with anterior cord syndrome |
| S22089B | 80637 | Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture | Open fracture of T7-T12 level with anterior cord syndrome |
| S24133A | 80637 | Anterior cord syndrome at T7-T10 level of thoracic spinal cord, initial encounter | Open fracture of T7-T12 level with anterior cord syndrome |
| S24134A | 80637 | Anterior cord syndrome at T11-T12 level of thoracic spinal cord, initial encounter | Open fracture of T7-T12 level with anterior cord syndrome |
| S22069B | 80638 | Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture | Open fracture of T7-T12 level with central cord syndrome |
| S22079B | 80638 | Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture | Open fracture of T7-T12 level with central cord syndrome |
| S22089B | 80638 | Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture | Open fracture of T7-T12 level with central cord syndrome |
| S24153A | 80638 | Other incomplete lesion at T7-T10 level of thoracic spinal cord, initial encounter | Open fracture of T7-T12 level with central cord syndrome |
| S24154A | 80638 | Other incomplete lesion at T11-T12 level of thoracic spinal cord, initial encounter | Open fracture of T7-T12 level with central cord syndrome |
| S22069B | 80639 | Unspecified fracture of T7-T8 vertebra, initial encounter for open fracture | Open fracture of T7-T12 level with other specified spinal cord injury |
| S22079B | 80639 | Unspecified fracture of T9-T10 vertebra, initial encounter for open fracture | Open fracture of T7-T12 level with other specified spinal cord injury |
| S22089B | 80639 | Unspecified fracture of T11-T12 vertebra, initial encounter for open fracture | Open fracture of T7-T12 level with other specified spinal cord injury |
| S24153A | 80639 | Other incomplete lesion at T7-T10 level of thoracic spinal cord, initial encounter | Open fracture of T7-T12 level with other specified spinal cord injury |
| S24154A | 80639 | Other incomplete lesion at T11-T12 level of thoracic spinal cord, initial encounter | Open fracture of T7-T12 level with other specified spinal cord injury |
| S32009A | 8064 | Unspecified fracture of unspecified lumbar vertebra, initial encounter for closed fracture | Closed fracture of lumbar spine with spinal cord injury |

Appendix A
Frailty markers

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|---------|-------|--|--|
| S34103A | 8065 | Unspecified injury to L3 level of lumbar spinal cord, initial encounter | Open fracture of lumbar spine with spinal cord injury |
| S34104A | 8065 | Unspecified injury to L4 level of lumbar spinal cord, initial encounter | Open fracture of lumbar spine with spinal cord injury |
| S34105A | 8065 | Unspecified injury to L5 level of lumbar spinal cord, initial encounter | Open fracture of lumbar spine with spinal cord injury |
| S34109A | 8065 | Unspecified injury to unspecified level of lumbar spinal cord, initial encounter | Open fracture of lumbar spine with spinal cord injury |
| S34111A | 8065 | Complete lesion of L1 level of lumbar spinal cord, initial encounter | Open fracture of lumbar spine with spinal cord injury |
| S34112A | 8065 | Complete lesion of L2 level of lumbar spinal cord, initial encounter | Open fracture of lumbar spine with spinal cord injury |
| S34113A | 8065 | Complete lesion of L3 level of lumbar spinal cord, initial encounter | Open fracture of lumbar spine with spinal cord injury |
| S34114A | 8065 | Complete lesion of L4 level of lumbar spinal cord, initial encounter | Open fracture of lumbar spine with spinal cord injury |
| S34115A | 8065 | Complete lesion of L5 level of lumbar spinal cord, initial encounter | Open fracture of lumbar spine with spinal cord injury |
| S34119A | 8065 | Complete lesion of unspecified level of lumbar spinal cord, initial encounter | Open fracture of lumbar spine with spinal cord injury |
| S34121A | 8065 | Incomplete lesion of L1 level of lumbar spinal cord, initial encounter | Open fracture of lumbar spine with spinal cord injury |
| S34122A | 8065 | Incomplete lesion of L2 level of lumbar spinal cord, initial encounter | Open fracture of lumbar spine with spinal cord injury |
| S34123A | 8065 | Incomplete lesion of L3 level of lumbar spinal cord, initial encounter | Open fracture of lumbar spine with spinal cord injury |
| S34124A | 8065 | Incomplete lesion of L4 level of lumbar spinal cord, initial encounter | Open fracture of lumbar spine with spinal cord injury |
| S34125A | 8065 | Incomplete lesion of L5 level of lumbar spinal cord, initial encounter | Open fracture of lumbar spine with spinal cord injury |
| S34129A | 8065 | Incomplete lesion of unspecified level of lumbar spinal cord, initial encounter | Open fracture of lumbar spine with spinal cord injury |
| S3210XA | 80660 | Unspecified fracture of sacrum, initial encounter for closed fracture | Closed fracture of sacrum and coccyx with unspecified spinal cord injury |
| S322XXA | 80660 | Fracture of coccyx, initial encounter for closed fracture | Closed fracture of sacrum and coccyx with unspecified spinal cord injury |
| S34139A | 80660 | Unspecified injury to sacral spinal cord, initial encounter | Closed fracture of sacrum and coccyx with unspecified spinal cord injury |
| S3210XA | 80661 | Unspecified fracture of sacrum, initial encounter for closed fracture | Closed fracture of sacrum and coccyx with complete cauda equina lesion |
| S322XXA | 80661 | Fracture of coccyx, initial encounter for closed fracture | Closed fracture of sacrum and coccyx with complete cauda equina lesion |
| S343XXA | 80661 | Injury of cauda equina, initial encounter | Closed fracture of sacrum and coccyx with complete cauda equina lesion |
| S3210XA | 80662 | Unspecified fracture of sacrum, initial encounter for closed fracture | Closed fracture of sacrum and coccyx with other cauda equina injury |
| S322XXA | 80662 | Fracture of coccyx, initial encounter for closed fracture | Closed fracture of sacrum and coccyx with other cauda equina injury |
| S343XXA | 80662 | Injury of cauda equina, initial encounter | Closed fracture of sacrum and coccyx with other cauda equina injury |
| S3210XA | 80669 | Unspecified fracture of sacrum, initial encounter for closed fracture | Closed fracture of sacrum and coccyx with other spinal cord injury |
| S322XXA | 80669 | Fracture of coccyx, initial encounter for closed fracture | Closed fracture of sacrum and coccyx with other spinal cord injury |
| S34131A | 80669 | Complete lesion of sacral spinal cord, initial encounter | Closed fracture of sacrum and coccyx with other spinal cord injury |
| S34132A | 80669 | Incomplete lesion of sacral spinal cord, initial encounter | Closed fracture of sacrum and coccyx with other spinal cord injury |
| S3210XB | 80670 | Unspecified fracture of sacrum, initial encounter for open fracture | Open fracture of sacrum and coccyx with unspecified spinal cord injury |
| S322XXB | 80670 | Fracture of coccyx, initial encounter for open fracture | Open fracture of sacrum and coccyx with unspecified spinal cord injury |

Appendix A
Frailty markers

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|---------|-------|--|---|
| S34139A | 80670 | Unspecified injury to sacral spinal cord, initial encounter | Open fracture of sacrum and coccyx with unspecified spinal cord injury |
| S3210XB | 80671 | Unspecified fracture of sacrum, initial encounter for open fracture | Open fracture of sacrum and coccyx with complete cauda equina lesion |
| S322XXB | 80671 | Fracture of coccyx, initial encounter for open fracture | Open fracture of sacrum and coccyx with complete cauda equina lesion |
| S343XXA | 80671 | Injury of cauda equina, initial encounter | Open fracture of sacrum and coccyx with complete cauda equina lesion |
| S3210XB | 80672 | Unspecified fracture of sacrum, initial encounter for open fracture | Open fracture of sacrum and coccyx with other cauda equina injury |
| S322XXB | 80672 | Fracture of coccyx, initial encounter for open fracture | Open fracture of sacrum and coccyx with other cauda equina injury |
| S343XXA | 80672 | Injury of cauda equina, initial encounter | Open fracture of sacrum and coccyx with other cauda equina injury |
| S3210XB | 80679 | Unspecified fracture of sacrum, initial encounter for open fracture | Open fracture of sacrum and coccyx with other spinal cord injury |
| S322XXB | 80679 | Fracture of coccyx, initial encounter for open fracture | Open fracture of sacrum and coccyx with other spinal cord injury |
| S34131A | 80679 | Complete lesion of sacral spinal cord, initial encounter | Open fracture of sacrum and coccyx with other spinal cord injury |
| S34132A | 80679 | Incomplete lesion of sacral spinal cord, initial encounter | Open fracture of sacrum and coccyx with other spinal cord injury |
| S129XXA | 8068 | Fracture of neck, unspecified, initial encounter | Closed fracture of unspecified vertebral column with spinal cord injury |
| S14109A | 8068 | Unspecified injury at unspecified level of cervical spinal cord, initial encounter | Closed fracture of unspecified vertebral column with spinal cord injury |
| S22009A | 8068 | Unspecified fracture of unspecified thoracic vertebra, initial encounter for closed fracture | Closed fracture of unspecified vertebral column with spinal cord injury |
| S24109A | 8068 | Unspecified injury at unspecified level of thoracic spinal cord, initial encounter | Closed fracture of unspecified vertebral column with spinal cord injury |
| S32009A | 8068 | Unspecified fracture of unspecified lumbar vertebra, initial encounter for closed fracture | Closed fracture of unspecified vertebral column with spinal cord injury |
| S3210XA | 8068 | Unspecified fracture of sacrum, initial encounter for closed fracture | Closed fracture of unspecified vertebral column with spinal cord injury |
| S34109A | 8068 | Unspecified injury to unspecified level of lumbar spinal cord, initial encounter | Closed fracture of unspecified vertebral column with spinal cord injury |
| S34139A | 8068 | Unspecified injury to sacral spinal cord, initial encounter | Closed fracture of unspecified vertebral column with spinal cord injury |
| S129XXA | 8069 | Fracture of neck, unspecified, initial encounter | Open fracture of unspecified vertebral column with spinal cord injury |
| S14109A | 8069 | Unspecified injury at unspecified level of cervical spinal cord, initial encounter | Open fracture of unspecified vertebral column with spinal cord injury |
| S22009B | 8069 | Unspecified fracture of unspecified thoracic vertebra, initial encounter for open fracture | Open fracture of unspecified vertebral column with spinal cord injury |
| S24109A | 8069 | Unspecified injury at unspecified level of thoracic spinal cord, initial encounter | Open fracture of unspecified vertebral column with spinal cord injury |
| S32009B | 8069 | Unspecified fracture of unspecified lumbar vertebra, initial encounter for open fracture | Open fracture of unspecified vertebral column with spinal cord injury |
| S3210XB | 8069 | Unspecified fracture of sacrum, initial encounter for open fracture | Open fracture of unspecified vertebral column with spinal cord injury |
| S34109A | 8069 | Unspecified injury to unspecified level of lumbar spinal cord, initial encounter | Open fracture of unspecified vertebral column with spinal cord injury |
| S34139A | 8069 | Unspecified injury to sacral spinal cord, initial encounter | Open fracture of unspecified vertebral column with spinal cord injury |
| S2231XA | 80701 | Fracture of one rib, right side, initial encounter for closed fracture | Closed fracture of one rib |
| S2232XA | 80701 | Fracture of one rib, left side, initial encounter for closed fracture | Closed fracture of one rib |
| S2241XA | 80702 | Multiple fractures of ribs, right side, initial encounter for closed fracture | Closed fracture of two ribs |
| S2242XA | 80702 | Multiple fractures of ribs, left side, initial encounter for closed fracture | Closed fracture of two ribs |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|---|
| S2243XA | 80702 | Multiple fractures of ribs, bilateral, initial encounter for closed fracture | Closed fracture of two ribs |
| S2241XA | 80703 | Multiple fractures of ribs, right side, initial encounter for closed fracture | Closed fracture of three ribs |
| S2242XA | 80703 | Multiple fractures of ribs, left side, initial encounter for closed fracture | Closed fracture of three ribs |
| S2243XA | 80703 | Multiple fractures of ribs, bilateral, initial encounter for closed fracture | Closed fracture of three ribs |
| S2249XA | 80703 | Multiple fractures of ribs, unspecified side, initial encounter for closed fracture | Closed fracture of three ribs |
| S2241XA | 80704 | Multiple fractures of ribs, right side, initial encounter for closed fracture | Closed fracture of four ribs |
| S2242XA | 80704 | Multiple fractures of ribs, left side, initial encounter for closed fracture | Closed fracture of four ribs |
| S2243XA | 80704 | Multiple fractures of ribs, bilateral, initial encounter for closed fracture | Closed fracture of four ribs |
| S2249XA | 80704 | Multiple fractures of ribs, unspecified side, initial encounter for closed fracture | Closed fracture of four ribs |
| S2241XA | 80705 | Multiple fractures of ribs, right side, initial encounter for closed fracture | Closed fracture of five ribs |
| S2242XA | 80705 | Multiple fractures of ribs, left side, initial encounter for closed fracture | Closed fracture of five ribs |
| S2243XA | 80705 | Multiple fractures of ribs, bilateral, initial encounter for closed fracture | Closed fracture of five ribs |
| S2249XA | 80705 | Multiple fractures of ribs, unspecified side, initial encounter for closed fracture | Closed fracture of five ribs |
| S2241XA | 80706 | Multiple fractures of ribs, right side, initial encounter for closed fracture | Closed fracture of six ribs |
| S2242XA | 80706 | Multiple fractures of ribs, left side, initial encounter for closed fracture | Closed fracture of six ribs |
| S2243XA | 80706 | Multiple fractures of ribs, bilateral, initial encounter for closed fracture | Closed fracture of six ribs |
| S2249XA | 80706 | Multiple fractures of ribs, unspecified side, initial encounter for closed fracture | Closed fracture of six ribs |
| S2241XA | 80707 | Multiple fractures of ribs, right side, initial encounter for closed fracture | Closed fracture of seven ribs |
| S2242XA | 80707 | Multiple fractures of ribs, left side, initial encounter for closed fracture | Closed fracture of seven ribs |
| S2243XA | 80707 | Multiple fractures of ribs, bilateral, initial encounter for closed fracture | Closed fracture of seven ribs |
| S2249XA | 80707 | Multiple fractures of ribs, unspecified side, initial encounter for closed fracture | Closed fracture of seven ribs |
| S2241XA | 80708 | Multiple fractures of ribs, right side, initial encounter for closed fracture | Closed fracture of eight or more ribs |
| S2242XA | 80708 | Multiple fractures of ribs, left side, initial encounter for closed fracture | Closed fracture of eight or more ribs |
| S2243XA | 80708 | Multiple fractures of ribs, bilateral, initial encounter for closed fracture | Closed fracture of eight or more ribs |
| S2249XA | 80708 | Multiple fractures of ribs, unspecified side, initial encounter for closed fracture | Closed fracture of eight or more ribs |
| S2241XA | 80709 | Multiple fractures of ribs, right side, initial encounter for closed fracture | Closed fracture of multiple ribs, unspecified |
| S2242XA | 80709 | Multiple fractures of ribs, left side, initial encounter for closed fracture | Closed fracture of multiple ribs, unspecified |
| S2243XA | 80709 | Multiple fractures of ribs, bilateral, initial encounter for closed fracture | Closed fracture of multiple ribs, unspecified |
| S2239XB | 80710 | Fracture of one rib, unspecified side, initial encounter for open fracture | Open fracture of rib(s), unspecified |
| S2231XB | 80711 | Fracture of one rib, right side, initial encounter for open fracture | Open fracture of one rib |
| S2232XB | 80711 | Fracture of one rib, left side, initial encounter for open fracture | Open fracture of one rib |

Appendix A
Frailty markers

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|---------|-------|---|---|
| S2241XB | 80712 | Multiple fractures of ribs, right side, initial encounter for open fracture | Open fracture of two ribs |
| S2242XB | 80712 | Multiple fractures of ribs, left side, initial encounter for open fracture | Open fracture of two ribs |
| S2243XB | 80712 | Multiple fractures of ribs, bilateral, initial encounter for open fracture | Open fracture of two ribs |
| S2241XB | 80713 | Multiple fractures of ribs, right side, initial encounter for open fracture | Open fracture of three ribs |
| S2242XB | 80713 | Multiple fractures of ribs, left side, initial encounter for open fracture | Open fracture of three ribs |
| S2243XB | 80713 | Multiple fractures of ribs, bilateral, initial encounter for open fracture | Open fracture of three ribs |
| S2249XB | 80713 | Multiple fractures of ribs, unspecified side, initial encounter for open fracture | Open fracture of three ribs |
| S2241XB | 80714 | Multiple fractures of ribs, right side, initial encounter for open fracture | Open fracture of four ribs |
| S2242XB | 80714 | Multiple fractures of ribs, left side, initial encounter for open fracture | Open fracture of four ribs |
| S2243XB | 80714 | Multiple fractures of ribs, bilateral, initial encounter for open fracture | Open fracture of four ribs |
| S2249XB | 80714 | Multiple fractures of ribs, unspecified side, initial encounter for open fracture | Open fracture of four ribs |
| S2241XB | 80715 | Multiple fractures of ribs, right side, initial encounter for open fracture | Open fracture of five ribs |
| S2242XB | 80715 | Multiple fractures of ribs, left side, initial encounter for open fracture | Open fracture of five ribs |
| S2243XB | 80715 | Multiple fractures of ribs, bilateral, initial encounter for open fracture | Open fracture of five ribs |
| S2249XB | 80715 | Multiple fractures of ribs, unspecified side, initial encounter for open fracture | Open fracture of five ribs |
| S2241XB | 80716 | Multiple fractures of ribs, right side, initial encounter for open fracture | Open fracture of six ribs |
| S2242XB | 80716 | Multiple fractures of ribs, left side, initial encounter for open fracture | Open fracture of six ribs |
| S2243XB | 80716 | Multiple fractures of ribs, bilateral, initial encounter for open fracture | Open fracture of six ribs |
| S2249XB | 80716 | Multiple fractures of ribs, unspecified side, initial encounter for open fracture | Open fracture of six ribs |
| S2241XB | 80717 | Multiple fractures of ribs, right side, initial encounter for open fracture | Open fracture of seven ribs |
| S2242XB | 80717 | Multiple fractures of ribs, left side, initial encounter for open fracture | Open fracture of seven ribs |
| S2243XB | 80717 | Multiple fractures of ribs, bilateral, initial encounter for open fracture | Open fracture of seven ribs |
| S2249XB | 80717 | Multiple fractures of ribs, unspecified side, initial encounter for open fracture | Open fracture of seven ribs |
| S2241XB | 80718 | Multiple fractures of ribs, right side, initial encounter for open fracture | Open fracture of eight or more ribs |
| S2242XB | 80718 | Multiple fractures of ribs, left side, initial encounter for open fracture | Open fracture of eight or more ribs |
| S2243XB | 80718 | Multiple fractures of ribs, bilateral, initial encounter for open fracture | Open fracture of eight or more ribs |
| S2249XB | 80718 | Multiple fractures of ribs, unspecified side, initial encounter for open fracture | Open fracture of eight or more ribs |
| S2241XB | 80719 | Multiple fractures of ribs, right side, initial encounter for open fracture | Open fracture of multiple ribs, unspecified |
| S2242XB | 80719 | Multiple fractures of ribs, left side, initial encounter for open fracture | Open fracture of multiple ribs, unspecified |
| S2243XB | 80719 | Multiple fractures of ribs, bilateral, initial encounter for open fracture | Open fracture of multiple ribs, unspecified |
| S2221XA | 8072 | Fracture of manubrium, initial encounter for closed fracture | Closed fracture of sternum |

Appendix A
Frailty markers

| | | | |
|---------|------|---|-------------------------------------|
| S2222XA | 8072 | Fracture of body of sternum, initial encounter for closed fracture | Closed fracture of sternum |
| S2223XA | 8072 | Sternal manubrial dissociation, initial encounter for closed fracture | Closed fracture of sternum |
| S2224XA | 8072 | Fracture of xiphoid process, initial encounter for closed fracture | Closed fracture of sternum |
| S2221XB | 8073 | Fracture of manubrium, initial encounter for open fracture | Open fracture of sternum |
| S2222XB | 8073 | Fracture of body of sternum, initial encounter for open fracture | Open fracture of sternum |
| S2223XB | 8073 | Sternal manubrial dissociation, initial encounter for open fracture | Open fracture of sternum |
| S2224XB | 8073 | Fracture of xiphoid process, initial encounter for open fracture | Open fracture of sternum |
| S128XXA | 8076 | Fracture of other parts of neck, initial encounter | Open fracture of larynx and trachea |
| S32401A | 8080 | Unspecified fracture of right acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32402A | 8080 | Unspecified fracture of left acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32411A | 8080 | Displaced fracture of anterior wall of right acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32412A | 8080 | Displaced fracture of anterior wall of left acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32413A | 8080 | Displaced fracture of anterior wall of unspecified acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32414A | 8080 | Nondisplaced fracture of anterior wall of right acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32415A | 8080 | Nondisplaced fracture of anterior wall of left acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32416A | 8080 | Nondisplaced fracture of anterior wall of unspecified acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32421A | 8080 | Displaced fracture of posterior wall of right acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32422A | 8080 | Displaced fracture of posterior wall of left acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32423A | 8080 | Displaced fracture of posterior wall of unspecified acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32424A | 8080 | Nondisplaced fracture of posterior wall of right acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32425A | 8080 | Nondisplaced fracture of posterior wall of left acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32426A | 8080 | Nondisplaced fracture of posterior wall of unspecified acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32431A | 8080 | Displaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32432A | 8080 | Displaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32433A | 8080 | Displaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32434A | 8080 | Nondisplaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32435A | 8080 | Nondisplaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32436A | 8080 | Nondisplaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32441A | 8080 | Displaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32442A | 8080 | Displaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |

Appendix A
Frailty markers

| | | | |
|---------|------|--|-------------------------------|
| S32443A | 8080 | Displaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32444A | 8080 | Nondisplaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32445A | 8080 | Nondisplaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32446A | 8080 | Nondisplaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32451A | 8080 | Displaced transverse fracture of right acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32452A | 8080 | Displaced transverse fracture of left acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32453A | 8080 | Displaced transverse fracture of unspecified acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32454A | 8080 | Nondisplaced transverse fracture of right acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32455A | 8080 | Nondisplaced transverse fracture of left acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32456A | 8080 | Nondisplaced transverse fracture of unspecified acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32461A | 8080 | Displaced associated transverse-posterior fracture of right acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32462A | 8080 | Displaced associated transverse-posterior fracture of left acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32463A | 8080 | Displaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32464A | 8080 | Nondisplaced associated transverse-posterior fracture of right acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32465A | 8080 | Nondisplaced associated transverse-posterior fracture of left acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32466A | 8080 | Nondisplaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32471A | 8080 | Displaced fracture of medial wall of right acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32472A | 8080 | Displaced fracture of medial wall of left acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32473A | 8080 | Displaced fracture of medial wall of unspecified acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32474A | 8080 | Nondisplaced fracture of medial wall of right acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32475A | 8080 | Nondisplaced fracture of medial wall of left acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32476A | 8080 | Nondisplaced fracture of medial wall of unspecified acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32481A | 8080 | Displaced dome fracture of right acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32482A | 8080 | Displaced dome fracture of left acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32483A | 8080 | Displaced dome fracture of unspecified acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32484A | 8080 | Nondisplaced dome fracture of right acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32485A | 8080 | Nondisplaced dome fracture of left acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32486A | 8080 | Nondisplaced dome fracture of unspecified acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32491A | 8080 | Other specified fracture of right acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |

Appendix A
Frailty markers

| | | | |
|---------|------|--|-------------------------------|
| S32492A | 8080 | Other specified fracture of left acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32499A | 8080 | Other specified fracture of unspecified acetabulum, initial encounter for closed fracture | Closed fracture of acetabulum |
| S32401B | 8081 | Unspecified fracture of right acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32402B | 8081 | Unspecified fracture of left acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32411B | 8081 | Displaced fracture of anterior wall of right acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32412B | 8081 | Displaced fracture of anterior wall of left acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32413B | 8081 | Displaced fracture of anterior wall of unspecified acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32414B | 8081 | Nondisplaced fracture of anterior wall of right acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32415B | 8081 | Nondisplaced fracture of anterior wall of left acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32416B | 8081 | Nondisplaced fracture of anterior wall of unspecified acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32421B | 8081 | Displaced fracture of posterior wall of right acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32422B | 8081 | Displaced fracture of posterior wall of left acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32423B | 8081 | Displaced fracture of posterior wall of unspecified acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32424B | 8081 | Nondisplaced fracture of posterior wall of right acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32425B | 8081 | Nondisplaced fracture of posterior wall of left acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32426B | 8081 | Nondisplaced fracture of posterior wall of unspecified acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32431B | 8081 | Displaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32432B | 8081 | Displaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32433B | 8081 | Displaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32434B | 8081 | Nondisplaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32435B | 8081 | Nondisplaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32436B | 8081 | Nondisplaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32441B | 8081 | Displaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32442B | 8081 | Displaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32443B | 8081 | Displaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32444B | 8081 | Nondisplaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32445B | 8081 | Nondisplaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32446B | 8081 | Nondisplaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32451B | 8081 | Displaced transverse fracture of right acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32452B | 8081 | Displaced transverse fracture of left acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32453B | 8081 | Displaced transverse fracture of unspecified acetabulum, initial encounter for open fracture | Open fracture of acetabulum |

Appendix A
Frailty markers

| | | | |
|---------|------|--|-----------------------------|
| S32454B | 8081 | Nondisplaced transverse fracture of right acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32455B | 8081 | Nondisplaced transverse fracture of left acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32456B | 8081 | Nondisplaced transverse fracture of unspecified acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32461B | 8081 | Displaced associated transverse-posterior fracture of right acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32462B | 8081 | Displaced associated transverse-posterior fracture of left acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32463B | 8081 | Displaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32464B | 8081 | Nondisplaced associated transverse-posterior fracture of right acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32465B | 8081 | Nondisplaced associated transverse-posterior fracture of left acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32466B | 8081 | Nondisplaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32471B | 8081 | Displaced fracture of medial wall of right acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32472B | 8081 | Displaced fracture of medial wall of left acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32473B | 8081 | Displaced fracture of medial wall of unspecified acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32474B | 8081 | Nondisplaced fracture of medial wall of right acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32475B | 8081 | Nondisplaced fracture of medial wall of left acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32476B | 8081 | Nondisplaced fracture of medial wall of unspecified acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32481B | 8081 | Displaced dome fracture of right acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32482B | 8081 | Displaced dome fracture of left acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32483B | 8081 | Displaced dome fracture of unspecified acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32484B | 8081 | Nondisplaced dome fracture of right acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32485B | 8081 | Nondisplaced dome fracture of left acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32486B | 8081 | Nondisplaced dome fracture of unspecified acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32491B | 8081 | Other specified fracture of right acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32492B | 8081 | Other specified fracture of left acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32499B | 8081 | Other specified fracture of unspecified acetabulum, initial encounter for open fracture | Open fracture of acetabulum |
| S32511A | 8082 | Fracture of superior rim of right pubis, initial encounter for closed fracture | Closed fracture of pubis |
| S32512A | 8082 | Fracture of superior rim of left pubis, initial encounter for closed fracture | Closed fracture of pubis |
| S32519A | 8082 | Fracture of superior rim of unspecified pubis, initial encounter for closed fracture | Closed fracture of pubis |
| S32591A | 8082 | Other specified fracture of right pubis, initial encounter for closed fracture | Closed fracture of pubis |
| S32592A | 8082 | Other specified fracture of left pubis, initial encounter for closed fracture | Closed fracture of pubis |
| S32599A | 8082 | Other specified fracture of unspecified pubis, initial encounter for closed fracture | Closed fracture of pubis |
| S32511B | 8083 | Fracture of superior rim of right pubis, initial encounter for open fracture | Open fracture of pubis |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|---|
| S32512B | 8083 | Fracture of superior rim of left pubis, initial encounter for open fracture | Open fracture of pubis |
| S32519B | 8083 | Fracture of superior rim of unspecified pubis, initial encounter for open fracture | Open fracture of pubis |
| S32591B | 8083 | Other specified fracture of right pubis, initial encounter for open fracture | Open fracture of pubis |
| S32592B | 8083 | Other specified fracture of left pubis, initial encounter for open fracture | Open fracture of pubis |
| S32599B | 8083 | Other specified fracture of unspecified pubis, initial encounter for open fracture | Open fracture of pubis |
| S32301A | 80841 | Unspecified fracture of right ilium, initial encounter for closed fracture | Closed fracture of ilium |
| S32302A | 80841 | Unspecified fracture of left ilium, initial encounter for closed fracture | Closed fracture of ilium |
| S32311A | 80841 | Displaced avulsion fracture of right ilium, initial encounter for closed fracture | Closed fracture of ilium |
| S32312A | 80841 | Displaced avulsion fracture of left ilium, initial encounter for closed fracture | Closed fracture of ilium |
| S32313A | 80841 | Displaced avulsion fracture of unspecified ilium, initial encounter for closed fracture | Closed fracture of ilium |
| S32314A | 80841 | Nondisplaced avulsion fracture of right ilium, initial encounter for closed fracture | Closed fracture of ilium |
| S32315A | 80841 | Nondisplaced avulsion fracture of left ilium, initial encounter for closed fracture | Closed fracture of ilium |
| S32316A | 80841 | Nondisplaced avulsion fracture of unspecified ilium, initial encounter for closed fracture | Closed fracture of ilium |
| S32391A | 80841 | Other fracture of right ilium, initial encounter for closed fracture | Closed fracture of ilium |
| S32392A | 80841 | Other fracture of left ilium, initial encounter for closed fracture | Closed fracture of ilium |
| S32399A | 80841 | Other fracture of unspecified ilium, initial encounter for closed fracture | Closed fracture of ilium |
| S32601A | 80842 | Unspecified fracture of right ischium, initial encounter for closed fracture | Closed fracture of ischium |
| S32602A | 80842 | Unspecified fracture of left ischium, initial encounter for closed fracture | Closed fracture of ischium |
| S32611A | 80842 | Displaced avulsion fracture of right ischium, initial encounter for closed fracture | Closed fracture of ischium |
| S32612A | 80842 | Displaced avulsion fracture of left ischium, initial encounter for closed fracture | Closed fracture of ischium |
| S32613A | 80842 | Displaced avulsion fracture of unspecified ischium, initial encounter for closed fracture | Closed fracture of ischium |
| S32614A | 80842 | Nondisplaced avulsion fracture of right ischium, initial encounter for closed fracture | Closed fracture of ischium |
| S32615A | 80842 | Nondisplaced avulsion fracture of left ischium, initial encounter for closed fracture | Closed fracture of ischium |
| S32616A | 80842 | Nondisplaced avulsion fracture of unspecified ischium, initial encounter for closed fracture | Closed fracture of ischium |
| S32691A | 80842 | Other specified fracture of right ischium, initial encounter for closed fracture | Closed fracture of ischium |
| S32692A | 80842 | Other specified fracture of left ischium, initial encounter for closed fracture | Closed fracture of ischium |
| S32699A | 80842 | Other specified fracture of unspecified ischium, initial encounter for closed fracture | Closed fracture of ischium |
| S329XXA | 80849 | Fracture of unspecified parts of lumbosacral spine and pelvis, initial encounter for closed fracture | Closed fracture of other specified part of pelvis |
| S32301B | 80851 | Unspecified fracture of right ilium, initial encounter for open fracture | Open fracture of ilium |
| S32302B | 80851 | Unspecified fracture of left ilium, initial encounter for open fracture | Open fracture of ilium |
| S32311B | 80851 | Displaced avulsion fracture of right ilium, initial encounter for open fracture | Open fracture of ilium |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|---|
| S32312B | 80851 | Displaced avulsion fracture of left ilium, initial encounter for open fracture | Open fracture of ilium |
| S32313B | 80851 | Displaced avulsion fracture of unspecified ilium, initial encounter for open fracture | Open fracture of ilium |
| S32314B | 80851 | Nondisplaced avulsion fracture of right ilium, initial encounter for open fracture | Open fracture of ilium |
| S32315B | 80851 | Nondisplaced avulsion fracture of left ilium, initial encounter for open fracture | Open fracture of ilium |
| S32316B | 80851 | Nondisplaced avulsion fracture of unspecified ilium, initial encounter for open fracture | Open fracture of ilium |
| S32391B | 80851 | Other fracture of right ilium, initial encounter for open fracture | Open fracture of ilium |
| S32392B | 80851 | Other fracture of left ilium, initial encounter for open fracture | Open fracture of ilium |
| S32399B | 80851 | Other fracture of unspecified ilium, initial encounter for open fracture | Open fracture of ilium |
| S32601B | 80852 | Unspecified fracture of right ischium, initial encounter for open fracture | Open fracture of ischium |
| S32602B | 80852 | Unspecified fracture of left ischium, initial encounter for open fracture | Open fracture of ischium |
| S32611B | 80852 | Displaced avulsion fracture of right ischium, initial encounter for open fracture | Open fracture of ischium |
| S32612B | 80852 | Displaced avulsion fracture of left ischium, initial encounter for open fracture | Open fracture of ischium |
| S32613B | 80852 | Displaced avulsion fracture of unspecified ischium, initial encounter for open fracture | Open fracture of ischium |
| S32614B | 80852 | Nondisplaced avulsion fracture of right ischium, initial encounter for open fracture | Open fracture of ischium |
| S32615B | 80852 | Nondisplaced avulsion fracture of left ischium, initial encounter for open fracture | Open fracture of ischium |
| S32616B | 80852 | Nondisplaced avulsion fracture of unspecified ischium, initial encounter for open fracture | Open fracture of ischium |
| S32691B | 80852 | Other specified fracture of right ischium, initial encounter for open fracture | Open fracture of ischium |
| S32692B | 80852 | Other specified fracture of left ischium, initial encounter for open fracture | Open fracture of ischium |
| S32699B | 80852 | Other specified fracture of unspecified ischium, initial encounter for open fracture | Open fracture of ischium |
| S329XXB | 80859 | Fracture of unspecified parts of lumbosacral spine and pelvis, initial encounter for open fracture | Open fracture of other specified part of pelvis |
| S42001A | 81000 | Fracture of unspecified part of right clavicle, initial encounter for closed fracture | Closed fracture of clavicle, unspecified part |
| S42002A | 81000 | Fracture of unspecified part of left clavicle, initial encounter for closed fracture | Closed fracture of clavicle, unspecified part |
| S42011A | 81001 | Anterior displaced fracture of sternal end of right clavicle, initial encounter for closed fracture | Closed fracture of sternal end of clavicle |
| S42012A | 81001 | Anterior displaced fracture of sternal end of left clavicle, initial encounter for closed fracture | Closed fracture of sternal end of clavicle |
| S42014A | 81001 | Posterior displaced fracture of sternal end of right clavicle, initial encounter for closed fracture | Closed fracture of sternal end of clavicle |
| S42015A | 81001 | Posterior displaced fracture of sternal end of left clavicle, initial encounter for closed fracture | Closed fracture of sternal end of clavicle |
| S42017A | 81001 | Nondisplaced fracture of sternal end of right clavicle, initial encounter for closed fracture | Closed fracture of sternal end of clavicle |
| S42018A | 81001 | Nondisplaced fracture of sternal end of left clavicle, initial encounter for closed fracture | Closed fracture of sternal end of clavicle |
| S42021A | 81002 | Displaced fracture of shaft of right clavicle, initial encounter for closed fracture | Closed fracture of shaft of clavicle |
| S42022A | 81002 | Displaced fracture of shaft of left clavicle, initial encounter for closed fracture | Closed fracture of shaft of clavicle |
| S42024A | 81002 | Nondisplaced fracture of shaft of right clavicle, initial encounter for closed fracture | Closed fracture of shaft of clavicle |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|--|
| S42025A | 81002 | Nondisplaced fracture of shaft of left clavicle, initial encounter for closed fracture | Closed fracture of shaft of clavicle |
| S42031A | 81003 | Displaced fracture of lateral end of right clavicle, initial encounter for closed fracture | Closed fracture of acromial end of clavicle |
| S42032A | 81003 | Displaced fracture of lateral end of left clavicle, initial encounter for closed fracture | Closed fracture of acromial end of clavicle |
| S42034A | 81003 | Nondisplaced fracture of lateral end of right clavicle, initial encounter for closed fracture | Closed fracture of acromial end of clavicle |
| S42035A | 81003 | Nondisplaced fracture of lateral end of left clavicle, initial encounter for closed fracture | Closed fracture of acromial end of clavicle |
| S42001B | 81010 | Fracture of unspecified part of right clavicle, initial encounter for open fracture | Open fracture of clavicle, unspecified part |
| S42002B | 81010 | Fracture of unspecified part of left clavicle, initial encounter for open fracture | Open fracture of clavicle, unspecified part |
| S42011B | 81011 | Anterior displaced fracture of sternal end of right clavicle, initial encounter for open fracture | Open fracture of sternal end of clavicle |
| S42012B | 81011 | Anterior displaced fracture of sternal end of left clavicle, initial encounter for open fracture | Open fracture of sternal end of clavicle |
| S42014B | 81011 | Posterior displaced fracture of sternal end of right clavicle, initial encounter for open fracture | Open fracture of sternal end of clavicle |
| S42015B | 81011 | Posterior displaced fracture of sternal end of left clavicle, initial encounter for open fracture | Open fracture of sternal end of clavicle |
| S42017B | 81011 | Nondisplaced fracture of sternal end of right clavicle, initial encounter for open fracture | Open fracture of sternal end of clavicle |
| S42018B | 81011 | Nondisplaced fracture of sternal end of left clavicle, initial encounter for open fracture | Open fracture of sternal end of clavicle |
| S42021B | 81012 | Displaced fracture of shaft of right clavicle, initial encounter for open fracture | Open fracture of shaft of clavicle |
| S42022B | 81012 | Displaced fracture of shaft of left clavicle, initial encounter for open fracture | Open fracture of shaft of clavicle |
| S42024B | 81012 | Nondisplaced fracture of shaft of right clavicle, initial encounter for open fracture | Open fracture of shaft of clavicle |
| S42025B | 81012 | Nondisplaced fracture of shaft of left clavicle, initial encounter for open fracture | Open fracture of shaft of clavicle |
| S42031B | 81013 | Displaced fracture of lateral end of right clavicle, initial encounter for open fracture | Open fracture of acromial end of clavicle |
| S42032B | 81013 | Displaced fracture of lateral end of left clavicle, initial encounter for open fracture | Open fracture of acromial end of clavicle |
| S42034B | 81013 | Nondisplaced fracture of lateral end of right clavicle, initial encounter for open fracture | Open fracture of acromial end of clavicle |
| S42035B | 81013 | Nondisplaced fracture of lateral end of left clavicle, initial encounter for open fracture | Open fracture of acromial end of clavicle |
| S42101A | 81100 | Fracture of unspecified part of scapula, right shoulder, initial encounter for closed fracture | Closed fracture of scapula, unspecified part |
| S42102A | 81100 | Fracture of unspecified part of scapula, left shoulder, initial encounter for closed fracture | Closed fracture of scapula, unspecified part |
| S42121A | 81101 | Displaced fracture of acromial process, right shoulder, initial encounter for closed fracture | Closed fracture of acromial process of scapula |
| S42122A | 81101 | Displaced fracture of acromial process, left shoulder, initial encounter for closed fracture | Closed fracture of acromial process of scapula |
| S42124A | 81101 | Nondisplaced fracture of acromial process, right shoulder, initial encounter for closed fracture | Closed fracture of acromial process of scapula |
| S42125A | 81101 | Nondisplaced fracture of acromial process, left shoulder, initial encounter for closed fracture | Closed fracture of acromial process of scapula |
| S42131A | 81102 | Displaced fracture of coracoid process, right shoulder, initial encounter for closed fracture | Closed fracture of coracoid process of scapula |
| S42132A | 81102 | Displaced fracture of coracoid process, left shoulder, initial encounter for closed fracture | Closed fracture of coracoid process of scapula |
| S42134A | 81102 | Nondisplaced fracture of coracoid process, right shoulder, initial encounter for closed fracture | Closed fracture of coracoid process of scapula |
| S42135A | 81102 | Nondisplaced fracture of coracoid process, left shoulder, initial encounter for closed fracture | Closed fracture of coracoid process of scapula |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|---|
| S42141A | 81103 | Displaced fracture of glenoid cavity of scapula, right shoulder, initial encounter for closed fracture | Closed fracture of glenoid cavity and neck of scapula |
| S42142A | 81103 | Displaced fracture of glenoid cavity of scapula, left shoulder, initial encounter for closed fracture | Closed fracture of glenoid cavity and neck of scapula |
| S42144A | 81103 | Nondisplaced fracture of glenoid cavity of scapula, right shoulder, initial encounter for closed fracture | Closed fracture of glenoid cavity and neck of scapula |
| S42145A | 81103 | Nondisplaced fracture of glenoid cavity of scapula, left shoulder, initial encounter for closed fracture | Closed fracture of glenoid cavity and neck of scapula |
| S42151A | 81103 | Displaced fracture of neck of scapula, right shoulder, initial encounter for closed fracture | Closed fracture of glenoid cavity and neck of scapula |
| S42152A | 81103 | Displaced fracture of neck of scapula, left shoulder, initial encounter for closed fracture | Closed fracture of glenoid cavity and neck of scapula |
| S42154A | 81103 | Nondisplaced fracture of neck of scapula, right shoulder, initial encounter for closed fracture | Closed fracture of glenoid cavity and neck of scapula |
| S42155A | 81103 | Nondisplaced fracture of neck of scapula, left shoulder, initial encounter for closed fracture | Closed fracture of glenoid cavity and neck of scapula |
| S42111A | 81109 | Displaced fracture of body of scapula, right shoulder, initial encounter for closed fracture | Closed fracture of scapula, other |
| S42112A | 81109 | Displaced fracture of body of scapula, left shoulder, initial encounter for closed fracture | Closed fracture of scapula, other |
| S42114A | 81109 | Nondisplaced fracture of body of scapula, right shoulder, initial encounter for closed fracture | Closed fracture of scapula, other |
| S42115A | 81109 | Nondisplaced fracture of body of scapula, left shoulder, initial encounter for closed fracture | Closed fracture of scapula, other |
| S42191A | 81109 | Fracture of other part of scapula, right shoulder, initial encounter for closed fracture | Closed fracture of scapula, other |
| S42192A | 81109 | Fracture of other part of scapula, left shoulder, initial encounter for closed fracture | Closed fracture of scapula, other |
| S42101B | 81110 | Fracture of unspecified part of scapula, right shoulder, initial encounter for open fracture | Open fracture of scapula, unspecified part |
| S42102B | 81110 | Fracture of unspecified part of scapula, left shoulder, initial encounter for open fracture | Open fracture of scapula, unspecified part |
| S42121B | 81111 | Displaced fracture of acromial process, right shoulder, initial encounter for open fracture | Open fracture of acromial process of scapula |
| S42122B | 81111 | Displaced fracture of acromial process, left shoulder, initial encounter for open fracture | Open fracture of acromial process of scapula |
| S42124B | 81111 | Nondisplaced fracture of acromial process, right shoulder, initial encounter for open fracture | Open fracture of acromial process of scapula |
| S42125B | 81111 | Nondisplaced fracture of acromial process, left shoulder, initial encounter for open fracture | Open fracture of acromial process of scapula |
| S42131B | 81112 | Displaced fracture of coracoid process, right shoulder, initial encounter for open fracture | Open fracture of coracoid process |
| S42132B | 81112 | Displaced fracture of coracoid process, left shoulder, initial encounter for open fracture | Open fracture of coracoid process |
| S42134B | 81112 | Nondisplaced fracture of coracoid process, right shoulder, initial encounter for open fracture | Open fracture of coracoid process |
| S42135B | 81112 | Nondisplaced fracture of coracoid process, left shoulder, initial encounter for open fracture | Open fracture of coracoid process |
| S42141B | 81113 | Displaced fracture of glenoid cavity of scapula, right shoulder, initial encounter for open fracture | Open fracture of glenoid cavity and neck of scapula |
| S42142B | 81113 | Displaced fracture of glenoid cavity of scapula, left shoulder, initial encounter for open fracture | Open fracture of glenoid cavity and neck of scapula |
| S42144B | 81113 | Nondisplaced fracture of glenoid cavity of scapula, right shoulder, initial encounter for open fracture | Open fracture of glenoid cavity and neck of scapula |
| S42145B | 81113 | Nondisplaced fracture of glenoid cavity of scapula, left shoulder, initial encounter for open fracture | Open fracture of glenoid cavity and neck of scapula |
| S42151B | 81113 | Displaced fracture of neck of scapula, right shoulder, initial encounter for open fracture | Open fracture of glenoid cavity and neck of scapula |
| S42152B | 81113 | Displaced fracture of neck of scapula, left shoulder, initial encounter for open fracture | Open fracture of glenoid cavity and neck of scapula |
| S42154B | 81113 | Nondisplaced fracture of neck of scapula, right shoulder, initial encounter for open fracture | Open fracture of glenoid cavity and neck of scapula |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|---|
| S42155B | 81113 | Nondisplaced fracture of neck of scapula, left shoulder, initial encounter for open fracture | Open fracture of glenoid cavity and neck of scapula |
| S42111B | 81119 | Displaced fracture of body of scapula, right shoulder, initial encounter for open fracture | Open fracture of scapula, other |
| S42112B | 81119 | Displaced fracture of body of scapula, left shoulder, initial encounter for open fracture | Open fracture of scapula, other |
| S42114B | 81119 | Nondisplaced fracture of body of scapula, right shoulder, initial encounter for open fracture | Open fracture of scapula, other |
| S42115B | 81119 | Nondisplaced fracture of body of scapula, left shoulder, initial encounter for open fracture | Open fracture of scapula, other |
| S42191B | 81119 | Fracture of other part of scapula, right shoulder, initial encounter for open fracture | Open fracture of scapula, other |
| S42192B | 81119 | Fracture of other part of scapula, left shoulder, initial encounter for open fracture | Open fracture of scapula, other |
| S42201A | 81200 | Unspecified fracture of upper end of right humerus, initial encounter for closed fracture | Closed fracture of unspecified part of upper end of humerus |
| S42202A | 81200 | Unspecified fracture of upper end of left humerus, initial encounter for closed fracture | Closed fracture of unspecified part of upper end of humerus |
| S42211A | 81201 | Unspecified displaced fracture of surgical neck of right humerus, initial encounter for closed fracture | Closed fracture of surgical neck of humerus |
| S42212A | 81201 | Unspecified displaced fracture of surgical neck of left humerus, initial encounter for closed fracture | Closed fracture of surgical neck of humerus |
| S42214A | 81201 | Unspecified nondisplaced fracture of surgical neck of right humerus, initial encounter for closed fracture | Closed fracture of surgical neck of humerus |
| S42215A | 81201 | Unspecified nondisplaced fracture of surgical neck of left humerus, initial encounter for closed fracture | Closed fracture of surgical neck of humerus |
| S42221A | 81201 | 2-part displaced fracture of surgical neck of right humerus, initial encounter for closed fracture | Closed fracture of surgical neck of humerus |
| S42222A | 81201 | 2-part displaced fracture of surgical neck of left humerus, initial encounter for closed fracture | Closed fracture of surgical neck of humerus |
| S42223A | 81201 | 2-part displaced fracture of surgical neck of unspecified humerus, initial encounter for closed fracture | Closed fracture of surgical neck of humerus |
| S42224A | 81201 | 2-part nondisplaced fracture of surgical neck of right humerus, initial encounter for closed fracture | Closed fracture of surgical neck of humerus |
| S42225A | 81201 | 2-part nondisplaced fracture of surgical neck of left humerus, initial encounter for closed fracture | Closed fracture of surgical neck of humerus |
| S42226A | 81201 | 2-part nondisplaced fracture of surgical neck of unspecified humerus, initial encounter for closed fracture | Closed fracture of surgical neck of humerus |
| S42231A | 81201 | 3-part fracture of surgical neck of right humerus, initial encounter for closed fracture | Closed fracture of surgical neck of humerus |
| S42232A | 81201 | 3-part fracture of surgical neck of left humerus, initial encounter for closed fracture | Closed fracture of surgical neck of humerus |
| S42239A | 81201 | 3-part fracture of surgical neck of unspecified humerus, initial encounter for closed fracture | Closed fracture of surgical neck of humerus |
| S42241A | 81201 | 4-part fracture of surgical neck of right humerus, initial encounter for closed fracture | Closed fracture of surgical neck of humerus |
| S42242A | 81201 | 4-part fracture of surgical neck of left humerus, initial encounter for closed fracture | Closed fracture of surgical neck of humerus |
| S42249A | 81201 | 4-part fracture of surgical neck of unspecified humerus, initial encounter for closed fracture | Closed fracture of surgical neck of humerus |
| S42291A | 81202 | Other displaced fracture of upper end of right humerus, initial encounter for closed fracture | Closed fracture of anatomical neck of humerus |
| S42292A | 81202 | Other displaced fracture of upper end of left humerus, initial encounter for closed fracture | Closed fracture of anatomical neck of humerus |
| S42294A | 81202 | Other nondisplaced fracture of upper end of right humerus, initial encounter for closed fracture | Closed fracture of anatomical neck of humerus |
| S42296A | 81202 | Other nondisplaced fracture of upper end of unspecified humerus, initial encounter for closed fracture | Closed fracture of anatomical neck of humerus |
| S42251A | 81203 | Displaced fracture of greater tuberosity of right humerus, initial encounter for closed fracture | Closed fracture of greater tuberosity of humerus |
| S42252A | 81203 | Displaced fracture of greater tuberosity of left humerus, initial encounter for closed fracture | Closed fracture of greater tuberosity of humerus |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|---|
| S49049A | 81209 | Salter-Harris Type IV physeal fracture of upper end of humerus, unspecified arm, initial encounter for closed fracture | Other closed fracture of upper end of humerus |
| S49091A | 81209 | Other physeal fracture of upper end of humerus, right arm, initial encounter for closed fracture | Other closed fracture of upper end of humerus |
| S49092A | 81209 | Other physeal fracture of upper end of humerus, left arm, initial encounter for closed fracture | Other closed fracture of upper end of humerus |
| S49099A | 81209 | Other physeal fracture of upper end of humerus, unspecified arm, initial encounter for closed fracture | Other closed fracture of upper end of humerus |
| S42201B | 81210 | Unspecified fracture of upper end of right humerus, initial encounter for open fracture | Open fracture of unspecified part of upper end of humerus |
| S42202B | 81210 | Unspecified fracture of upper end of left humerus, initial encounter for open fracture | Open fracture of unspecified part of upper end of humerus |
| S42211B | 81211 | Unspecified displaced fracture of surgical neck of right humerus, initial encounter for open fracture | Open fracture of surgical neck of humerus |
| S42212B | 81211 | Unspecified displaced fracture of surgical neck of left humerus, initial encounter for open fracture | Open fracture of surgical neck of humerus |
| S42214B | 81211 | Unspecified nondisplaced fracture of surgical neck of right humerus, initial encounter for open fracture | Open fracture of surgical neck of humerus |
| S42215B | 81211 | Unspecified nondisplaced fracture of surgical neck of left humerus, initial encounter for open fracture | Open fracture of surgical neck of humerus |
| S42221B | 81211 | 2-part displaced fracture of surgical neck of right humerus, initial encounter for open fracture | Open fracture of surgical neck of humerus |
| S42222B | 81211 | 2-part displaced fracture of surgical neck of left humerus, initial encounter for open fracture | Open fracture of surgical neck of humerus |
| S42223B | 81211 | 2-part displaced fracture of surgical neck of unspecified humerus, initial encounter for open fracture | Open fracture of surgical neck of humerus |
| S42224B | 81211 | 2-part nondisplaced fracture of surgical neck of right humerus, initial encounter for open fracture | Open fracture of surgical neck of humerus |
| S42225B | 81211 | 2-part nondisplaced fracture of surgical neck of left humerus, initial encounter for open fracture | Open fracture of surgical neck of humerus |
| S42226B | 81211 | 2-part nondisplaced fracture of surgical neck of unspecified humerus, initial encounter for open fracture | Open fracture of surgical neck of humerus |
| S42231B | 81211 | 3-part fracture of surgical neck of right humerus, initial encounter for open fracture | Open fracture of surgical neck of humerus |
| S42232B | 81211 | 3-part fracture of surgical neck of left humerus, initial encounter for open fracture | Open fracture of surgical neck of humerus |
| S42239B | 81211 | 3-part fracture of surgical neck of unspecified humerus, initial encounter for open fracture | Open fracture of surgical neck of humerus |
| S42241B | 81211 | 4-part fracture of surgical neck of right humerus, initial encounter for open fracture | Open fracture of surgical neck of humerus |
| S42242B | 81211 | 4-part fracture of surgical neck of left humerus, initial encounter for open fracture | Open fracture of surgical neck of humerus |
| S42249B | 81211 | 4-part fracture of surgical neck of unspecified humerus, initial encounter for open fracture | Open fracture of surgical neck of humerus |
| S42291B | 81212 | Other displaced fracture of upper end of right humerus, initial encounter for open fracture | Open fracture of anatomical neck of humerus |
| S42292B | 81212 | Other displaced fracture of upper end of left humerus, initial encounter for open fracture | Open fracture of anatomical neck of humerus |
| S42294B | 81212 | Other nondisplaced fracture of upper end of right humerus, initial encounter for open fracture | Open fracture of anatomical neck of humerus |
| S42295B | 81212 | Other nondisplaced fracture of upper end of left humerus, initial encounter for open fracture | Open fracture of anatomical neck of humerus |
| S42251B | 81213 | Displaced fracture of greater tuberosity of right humerus, initial encounter for open fracture | Open fracture of greater tuberosity of humerus |
| S42252B | 81213 | Displaced fracture of greater tuberosity of left humerus, initial encounter for open fracture | Open fracture of greater tuberosity of humerus |
| S42254B | 81213 | Nondisplaced fracture of greater tuberosity of right humerus, initial encounter for open fracture | Open fracture of greater tuberosity of humerus |
| S42255B | 81213 | Nondisplaced fracture of greater tuberosity of left humerus, initial encounter for open fracture | Open fracture of greater tuberosity of humerus |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|--|
| S42261B | 81219 | Displaced fracture of lesser tuberosity of right humerus, initial encounter for open fracture | Other open fracture of upper end of humerus |
| S42262B | 81219 | Displaced fracture of lesser tuberosity of left humerus, initial encounter for open fracture | Other open fracture of upper end of humerus |
| S42263B | 81219 | Displaced fracture of lesser tuberosity of unspecified humerus, initial encounter for open fracture | Other open fracture of upper end of humerus |
| S42264B | 81219 | Nondisplaced fracture of lesser tuberosity of right humerus, initial encounter for open fracture | Other open fracture of upper end of humerus |
| S42265B | 81219 | Nondisplaced fracture of lesser tuberosity of left humerus, initial encounter for open fracture | Other open fracture of upper end of humerus |
| S42266B | 81219 | Nondisplaced fracture of lesser tuberosity of unspecified humerus, initial encounter for open fracture | Other open fracture of upper end of humerus |
| S42291B | 81219 | Other displaced fracture of upper end of right humerus, initial encounter for open fracture | Other open fracture of upper end of humerus |
| S42292B | 81219 | Other displaced fracture of upper end of left humerus, initial encounter for open fracture | Other open fracture of upper end of humerus |
| S42294B | 81219 | Other nondisplaced fracture of upper end of right humerus, initial encounter for open fracture | Other open fracture of upper end of humerus |
| S42295B | 81219 | Other nondisplaced fracture of upper end of left humerus, initial encounter for open fracture | Other open fracture of upper end of humerus |
| S42301A | 81220 | Unspecified fracture of shaft of humerus, right arm, initial encounter for closed fracture | Closed fracture of unspecified part of humerus |
| S42302A | 81220 | Unspecified fracture of shaft of humerus, left arm, initial encounter for closed fracture | Closed fracture of unspecified part of humerus |
| S4290XA | 81220 | Fracture of unspecified shoulder girdle, part unspecified, initial encounter for closed fracture | Closed fracture of unspecified part of humerus |
| S4291XA | 81220 | Fracture of right shoulder girdle, part unspecified, initial encounter for closed fracture | Closed fracture of unspecified part of humerus |
| S4292XA | 81220 | Fracture of left shoulder girdle, part unspecified, initial encounter for closed fracture | Closed fracture of unspecified part of humerus |
| S42311A | 81221 | Greenstick fracture of shaft of humerus, right arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42312A | 81221 | Greenstick fracture of shaft of humerus, left arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42319A | 81221 | Greenstick fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42321A | 81221 | Displaced transverse fracture of shaft of humerus, right arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42322A | 81221 | Displaced transverse fracture of shaft of humerus, left arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42323A | 81221 | Displaced transverse fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42324A | 81221 | Nondisplaced transverse fracture of shaft of humerus, right arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42325A | 81221 | Nondisplaced transverse fracture of shaft of humerus, left arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42326A | 81221 | Nondisplaced transverse fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42331A | 81221 | Displaced oblique fracture of shaft of humerus, right arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42332A | 81221 | Displaced oblique fracture of shaft of humerus, left arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42333A | 81221 | Displaced oblique fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42334A | 81221 | Nondisplaced oblique fracture of shaft of humerus, right arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42335A | 81221 | Nondisplaced oblique fracture of shaft of humerus, left arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42336A | 81221 | Nondisplaced oblique fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42341A | 81221 | Displaced spiral fracture of shaft of humerus, right arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|--|
| S42342A | 81221 | Displaced spiral fracture of shaft of humerus, left arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42343A | 81221 | Displaced spiral fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42344A | 81221 | Nondisplaced spiral fracture of shaft of humerus, right arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42345A | 81221 | Nondisplaced spiral fracture of shaft of humerus, left arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42346A | 81221 | Nondisplaced spiral fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42351A | 81221 | Displaced comminuted fracture of shaft of humerus, right arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42352A | 81221 | Displaced comminuted fracture of shaft of humerus, left arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42353A | 81221 | Displaced comminuted fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42354A | 81221 | Nondisplaced comminuted fracture of shaft of humerus, right arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42355A | 81221 | Nondisplaced comminuted fracture of shaft of humerus, left arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42356A | 81221 | Nondisplaced comminuted fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42361A | 81221 | Displaced segmental fracture of shaft of humerus, right arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42362A | 81221 | Displaced segmental fracture of shaft of humerus, left arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42363A | 81221 | Displaced segmental fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42364A | 81221 | Nondisplaced segmental fracture of shaft of humerus, right arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42365A | 81221 | Nondisplaced segmental fracture of shaft of humerus, left arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42366A | 81221 | Nondisplaced segmental fracture of shaft of humerus, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42391A | 81221 | Other fracture of shaft of right humerus, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42392A | 81221 | Other fracture of shaft of left humerus, initial encounter for closed fracture | Closed fracture of shaft of humerus |
| S42301B | 81230 | Unspecified fracture of shaft of humerus, right arm, initial encounter for open fracture | Open fracture of unspecified part of humerus |
| S42302B | 81230 | Unspecified fracture of shaft of humerus, left arm, initial encounter for open fracture | Open fracture of unspecified part of humerus |
| S4290XB | 81230 | Fracture of unspecified shoulder girdle, part unspecified, initial encounter for open fracture | Open fracture of unspecified part of humerus |
| S4291XB | 81230 | Fracture of right shoulder girdle, part unspecified, initial encounter for open fracture | Open fracture of unspecified part of humerus |
| S4292XB | 81230 | Fracture of left shoulder girdle, part unspecified, initial encounter for open fracture | Open fracture of unspecified part of humerus |
| S42321B | 81231 | Displaced transverse fracture of shaft of humerus, right arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42322B | 81231 | Displaced transverse fracture of shaft of humerus, left arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42323B | 81231 | Displaced transverse fracture of shaft of humerus, unspecified arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42324B | 81231 | Nondisplaced transverse fracture of shaft of humerus, right arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42325B | 81231 | Nondisplaced transverse fracture of shaft of humerus, left arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42326B | 81231 | Nondisplaced transverse fracture of shaft of humerus, unspecified arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42331B | 81231 | Displaced oblique fracture of shaft of humerus, right arm, initial encounter for open fracture | Open fracture of shaft of humerus |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|---|
| S42332B | 81231 | Displaced oblique fracture of shaft of humerus, left arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42333B | 81231 | Displaced oblique fracture of shaft of humerus, unspecified arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42334B | 81231 | Nondisplaced oblique fracture of shaft of humerus, right arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42335B | 81231 | Nondisplaced oblique fracture of shaft of humerus, left arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42336B | 81231 | Nondisplaced oblique fracture of shaft of humerus, unspecified arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42341B | 81231 | Displaced spiral fracture of shaft of humerus, right arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42342B | 81231 | Displaced spiral fracture of shaft of humerus, left arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42343B | 81231 | Displaced spiral fracture of shaft of humerus, unspecified arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42344B | 81231 | Nondisplaced spiral fracture of shaft of humerus, right arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42345B | 81231 | Nondisplaced spiral fracture of shaft of humerus, left arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42346B | 81231 | Nondisplaced spiral fracture of shaft of humerus, unspecified arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42351B | 81231 | Displaced comminuted fracture of shaft of humerus, right arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42352B | 81231 | Displaced comminuted fracture of shaft of humerus, left arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42353B | 81231 | Displaced comminuted fracture of shaft of humerus, unspecified arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42354B | 81231 | Nondisplaced comminuted fracture of shaft of humerus, right arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42355B | 81231 | Nondisplaced comminuted fracture of shaft of humerus, left arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42356B | 81231 | Nondisplaced comminuted fracture of shaft of humerus, unspecified arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42361B | 81231 | Displaced segmental fracture of shaft of humerus, right arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42362B | 81231 | Displaced segmental fracture of shaft of humerus, left arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42363B | 81231 | Displaced segmental fracture of shaft of humerus, unspecified arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42364B | 81231 | Nondisplaced segmental fracture of shaft of humerus, right arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42365B | 81231 | Nondisplaced segmental fracture of shaft of humerus, left arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42366B | 81231 | Nondisplaced segmental fracture of shaft of humerus, unspecified arm, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42391B | 81231 | Other fracture of shaft of right humerus, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42392B | 81231 | Other fracture of shaft of left humerus, initial encounter for open fracture | Open fracture of shaft of humerus |
| S42401A | 81240 | Unspecified fracture of lower end of right humerus, initial encounter for closed fracture | Closed fracture of unspecified part of lower end of humerus |
| S42402A | 81240 | Unspecified fracture of lower end of left humerus, initial encounter for closed fracture | Closed fracture of unspecified part of lower end of humerus |
| S42411A | 81241 | Displaced simple supracondylar fracture without intercondylar fracture of right humerus, initial encounter for closed fracture | Closed supracondylar fracture of humerus |
| S42412A | 81241 | Displaced simple supracondylar fracture without intercondylar fracture of left humerus, initial encounter for closed fracture | Closed supracondylar fracture of humerus |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|---|
| S42401B | 81250 | Unspecified fracture of lower end of right humerus, initial encounter for open fracture | Open fracture of unspecified part of lower end of humerus |
| S42402B | 81250 | Unspecified fracture of lower end of left humerus, initial encounter for open fracture | Open fracture of unspecified part of lower end of humerus |
| S42411B | 81251 | Displaced simple supracondylar fracture without intercondylar fracture of right humerus, initial encounter for open fracture | Open supracondylar fracture of humerus |
| S42412B | 81251 | Displaced simple supracondylar fracture without intercondylar fracture of left humerus, initial encounter for open fracture | Open supracondylar fracture of humerus |
| S42414B | 81251 | Nondisplaced simple supracondylar fracture without intercondylar fracture of right humerus, initial encounter for open fracture | Open supracondylar fracture of humerus |
| S42415B | 81251 | Nondisplaced simple supracondylar fracture without intercondylar fracture of left humerus, initial encounter for open fracture | Open supracondylar fracture of humerus |
| S42421B | 81251 | Displaced comminuted supracondylar fracture without intercondylar fracture of right humerus, initial encounter for open fracture | Open supracondylar fracture of humerus |
| S42422B | 81251 | Displaced comminuted supracondylar fracture without intercondylar fracture of left humerus, initial encounter for open fracture | Open supracondylar fracture of humerus |
| S42423B | 81251 | Displaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for open fracture | Open supracondylar fracture of humerus |
| S42424B | 81251 | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of right humerus, initial encounter for open fracture | Open supracondylar fracture of humerus |
| S42425B | 81251 | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of left humerus, initial encounter for open fracture | Open supracondylar fracture of humerus |
| S42426B | 81251 | Nondisplaced comminuted supracondylar fracture without intercondylar fracture of unspecified humerus, initial encounter for open fracture | Open supracondylar fracture of humerus |
| S42431B | 81252 | Displaced fracture (avulsion) of lateral epicondyle of right humerus, initial encounter for open fracture | Open fracture of lateral condyle of humerus |
| S42432B | 81252 | Displaced fracture (avulsion) of lateral epicondyle of left humerus, initial encounter for open fracture | Open fracture of lateral condyle of humerus |
| S42433B | 81252 | Displaced fracture (avulsion) of lateral epicondyle of unspecified humerus, initial encounter for open fracture | Open fracture of lateral condyle of humerus |
| S42434B | 81252 | Nondisplaced fracture (avulsion) of lateral epicondyle of right humerus, initial encounter for open fracture | Open fracture of lateral condyle of humerus |
| S42435B | 81252 | Nondisplaced fracture (avulsion) of lateral epicondyle of left humerus, initial encounter for open fracture | Open fracture of lateral condyle of humerus |
| S42436B | 81252 | Nondisplaced fracture (avulsion) of lateral epicondyle of unspecified humerus, initial encounter for open fracture | Open fracture of lateral condyle of humerus |
| S42451B | 81252 | Displaced fracture of lateral condyle of right humerus, initial encounter for open fracture | Open fracture of lateral condyle of humerus |
| S42452B | 81252 | Displaced fracture of lateral condyle of left humerus, initial encounter for open fracture | Open fracture of lateral condyle of humerus |
| S42454B | 81252 | Nondisplaced fracture of lateral condyle of right humerus, initial encounter for open fracture | Open fracture of lateral condyle of humerus |
| S42455B | 81252 | Nondisplaced fracture of lateral condyle of left humerus, initial encounter for open fracture | Open fracture of lateral condyle of humerus |
| S42441B | 81253 | Displaced fracture (avulsion) of medial epicondyle of right humerus, initial encounter for open fracture | Open fracture of medial condyle of humerus |
| S42442B | 81253 | Displaced fracture (avulsion) of medial epicondyle of left humerus, initial encounter for open fracture | Open fracture of medial condyle of humerus |
| S42443B | 81253 | Displaced fracture (avulsion) of medial epicondyle of unspecified humerus, initial encounter for open fracture | Open fracture of medial condyle of humerus |
| S42444B | 81253 | Nondisplaced fracture (avulsion) of medial epicondyle of right humerus, initial encounter for open fracture | Open fracture of medial condyle of humerus |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|--|
| S42445B | 81253 | Nondisplaced fracture (avulsion) of medial epicondyle of left humerus, initial encounter for open fracture | Open fracture of medial condyle of humerus |
| S42446B | 81253 | Nondisplaced fracture (avulsion) of medial epicondyle of unspecified humerus, initial encounter for open fracture | Open fracture of medial condyle of humerus |
| S42447B | 81253 | Incarcerated fracture (avulsion) of medial epicondyle of right humerus, initial encounter for open fracture | Open fracture of medial condyle of humerus |
| S42448B | 81253 | Incarcerated fracture (avulsion) of medial epicondyle of left humerus, initial encounter for open fracture | Open fracture of medial condyle of humerus |
| S42449B | 81253 | Incarcerated fracture (avulsion) of medial epicondyle of unspecified humerus, initial encounter for open fracture | Open fracture of medial condyle of humerus |
| S42461B | 81253 | Displaced fracture of medial condyle of right humerus, initial encounter for open fracture | Open fracture of medial condyle of humerus |
| S42462B | 81253 | Displaced fracture of medial condyle of left humerus, initial encounter for open fracture | Open fracture of medial condyle of humerus |
| S42464B | 81253 | Nondisplaced fracture of medial condyle of right humerus, initial encounter for open fracture | Open fracture of medial condyle of humerus |
| S42465B | 81253 | Nondisplaced fracture of medial condyle of left humerus, initial encounter for open fracture | Open fracture of medial condyle of humerus |
| S42471B | 81254 | Displaced transcondylar fracture of right humerus, initial encounter for open fracture | Open fracture of unspecified condyle(s) of humerus |
| S42472B | 81254 | Displaced transcondylar fracture of left humerus, initial encounter for open fracture | Open fracture of unspecified condyle(s) of humerus |
| S42474B | 81254 | Nondisplaced transcondylar fracture of right humerus, initial encounter for open fracture | Open fracture of unspecified condyle(s) of humerus |
| S42475B | 81254 | Nondisplaced transcondylar fracture of left humerus, initial encounter for open fracture | Open fracture of unspecified condyle(s) of humerus |
| S42491B | 81259 | Other displaced fracture of lower end of right humerus, initial encounter for open fracture | Other open fracture of lower end of humerus |
| S42492B | 81259 | Other displaced fracture of lower end of left humerus, initial encounter for open fracture | Other open fracture of lower end of humerus |
| S42494B | 81259 | Other nondisplaced fracture of lower end of right humerus, initial encounter for open fracture | Other open fracture of lower end of humerus |
| S42495B | 81259 | Other nondisplaced fracture of lower end of left humerus, initial encounter for open fracture | Other open fracture of lower end of humerus |
| S5290XA | 81300 | Unspecified fracture of unspecified forearm, initial encounter for closed fracture | Closed fracture of upper end of forearm, unspecified |
| S52021A | 81301 | Displaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for closed fracture | Closed fracture of olecranon process of ulna |
| S52022A | 81301 | Displaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for closed fracture | Closed fracture of olecranon process of ulna |
| S52024A | 81301 | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for closed fracture | Closed fracture of olecranon process of ulna |
| S52025A | 81301 | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for closed fracture | Closed fracture of olecranon process of ulna |
| S52031A | 81301 | Displaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for closed fracture | Closed fracture of olecranon process of ulna |
| S52032A | 81301 | Displaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for closed fracture | Closed fracture of olecranon process of ulna |
| S52033A | 81301 | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for closed fracture | Closed fracture of olecranon process of ulna |
| S52034A | 81301 | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for closed fracture | Closed fracture of olecranon process of ulna |
| S52035A | 81301 | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for closed fracture | Closed fracture of olecranon process of ulna |

Appendix A
Frailty markers

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|---------|-------|---|--|
| S52036A | 81301 | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for closed fracture | Closed fracture of olecranon process of ulna |
| S52041A | 81302 | Displaced fracture of coronoid process of right ulna, initial encounter for closed fracture | Closed fracture of coronoid process of ulna |
| S52042A | 81302 | Displaced fracture of coronoid process of left ulna, initial encounter for closed fracture | Closed fracture of coronoid process of ulna |
| S52044A | 81302 | Nondisplaced fracture of coronoid process of right ulna, initial encounter for closed fracture | Closed fracture of coronoid process of ulna |
| S52045A | 81302 | Nondisplaced fracture of coronoid process of left ulna, initial encounter for closed fracture | Closed fracture of coronoid process of ulna |
| S52271A | 81303 | Monteggia's fracture of right ulna, initial encounter for closed fracture | Closed Monteggia's fracture |
| S52272A | 81303 | Monteggia's fracture of left ulna, initial encounter for closed fracture | Closed Monteggia's fracture |
| S52001A | 81304 | Unspecified fracture of upper end of right ulna, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of ulna (alone) |
| S52002A | 81304 | Unspecified fracture of upper end of left ulna, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of ulna (alone) |
| S52091A | 81304 | Other fracture of upper end of right ulna, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of ulna (alone) |
| S52092A | 81304 | Other fracture of upper end of left ulna, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of ulna (alone) |
| S52121A | 81305 | Displaced fracture of head of right radius, initial encounter for closed fracture | Closed fracture of head of radius |
| S52122A | 81305 | Displaced fracture of head of left radius, initial encounter for closed fracture | Closed fracture of head of radius |
| S52124A | 81305 | Nondisplaced fracture of head of right radius, initial encounter for closed fracture | Closed fracture of head of radius |
| S52125A | 81305 | Nondisplaced fracture of head of left radius, initial encounter for closed fracture | Closed fracture of head of radius |
| S52131A | 81306 | Displaced fracture of neck of right radius, initial encounter for closed fracture | Closed fracture of neck of radius |
| S52132A | 81306 | Displaced fracture of neck of left radius, initial encounter for closed fracture | Closed fracture of neck of radius |
| S52134A | 81306 | Nondisplaced fracture of neck of right radius, initial encounter for closed fracture | Closed fracture of neck of radius |
| S52135A | 81306 | Nondisplaced fracture of neck of left radius, initial encounter for closed fracture | Closed fracture of neck of radius |
| S52101A | 81307 | Unspecified fracture of upper end of right radius, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S52102A | 81307 | Unspecified fracture of upper end of left radius, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S52181A | 81307 | Other fracture of upper end of right radius, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S52182A | 81307 | Other fracture of upper end of left radius, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S59101A | 81307 | Unspecified physeal fracture of upper end of radius, right arm, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S59102A | 81307 | Unspecified physeal fracture of upper end of radius, left arm, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S59111A | 81307 | Salter-Harris Type I physeal fracture of upper end of radius, right arm, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S59112A | 81307 | Salter-Harris Type I physeal fracture of upper end of radius, left arm, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S59119A | 81307 | Salter-Harris Type I physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S59121A | 81307 | Salter-Harris Type II physeal fracture of upper end of radius, right arm, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S59122A | 81307 | Salter-Harris Type II physeal fracture of upper end of radius, left arm, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |

Appendix A
Frailty markers

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|---------|-------|---|--|
| S59129A | 81307 | Salter-Harris Type II physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S59131A | 81307 | Salter-Harris Type III physeal fracture of upper end of radius, right arm, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S59132A | 81307 | Salter-Harris Type III physeal fracture of upper end of radius, left arm, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S59139A | 81307 | Salter-Harris Type III physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S59141A | 81307 | Salter-Harris Type IV physeal fracture of upper end of radius, right arm, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S59142A | 81307 | Salter-Harris Type IV physeal fracture of upper end of radius, left arm, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S59149A | 81307 | Salter-Harris Type IV physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S59191A | 81307 | Other physeal fracture of upper end of radius, right arm, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S59192A | 81307 | Other physeal fracture of upper end of radius, left arm, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S59199A | 81307 | Other physeal fracture of upper end of radius, unspecified arm, initial encounter for closed fracture | Other and unspecified closed fractures of proximal end of radius (alone) |
| S52009A | 81308 | Unspecified fracture of upper end of unspecified ulna, initial encounter for closed fracture | Closed fracture of radius with ulna, upper end [any part] |
| S52109A | 81308 | Unspecified fracture of upper end of unspecified radius, initial encounter for closed fracture | Closed fracture of radius with ulna, upper end [any part] |
| S5290XB | 81310 | Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II | Open fracture of upper end of forearm, unspecified |
| S5290XC | 81310 | Unspecified fracture of unspecified forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of forearm, unspecified |
| S52021B | 81311 | Displaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for open fracture type I or II | Open fracture of olecranon process of ulna |
| S52021C | 81311 | Displaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of olecranon process of ulna |
| S52022B | 81311 | Displaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for open fracture type I or II | Open fracture of olecranon process of ulna |
| S52022C | 81311 | Displaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of olecranon process of ulna |
| S52024B | 81311 | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for open fracture type I or II | Open fracture of olecranon process of ulna |
| S52024C | 81311 | Nondisplaced fracture of olecranon process without intraarticular extension of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of olecranon process of ulna |
| S52025B | 81311 | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for open fracture type I or II | Open fracture of olecranon process of ulna |
| S52025C | 81311 | Nondisplaced fracture of olecranon process without intraarticular extension of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of olecranon process of ulna |
| S52031B | 81311 | Displaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for open fracture type I or II | Open fracture of olecranon process of ulna |
| S52031C | 81311 | Displaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of olecranon process of ulna |
| S52032B | 81311 | Displaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for open fracture type I or II | Open fracture of olecranon process of ulna |

Appendix A
Frailty markers

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|---------|-------|--|--|
| S52032C | 81311 | Displaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of olecranon process of ulna |
| S52033B | 81311 | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for open fracture type I or II | Open fracture of olecranon process of ulna |
| S52033C | 81311 | Displaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of olecranon process of ulna |
| S52034B | 81311 | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for open fracture type I or II | Open fracture of olecranon process of ulna |
| S52034C | 81311 | Nondisplaced fracture of olecranon process with intraarticular extension of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of olecranon process of ulna |
| S52035B | 81311 | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for open fracture type I or II | Open fracture of olecranon process of ulna |
| S52035C | 81311 | Nondisplaced fracture of olecranon process with intraarticular extension of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of olecranon process of ulna |
| S52036B | 81311 | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for open fracture type I or II | Open fracture of olecranon process of ulna |
| S52036C | 81311 | Nondisplaced fracture of olecranon process with intraarticular extension of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of olecranon process of ulna |
| S52041B | 81312 | Displaced fracture of coronoid process of right ulna, initial encounter for open fracture type I or II | Open fracture of coronoid process of ulna |
| S52041C | 81312 | Displaced fracture of coronoid process of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of coronoid process of ulna |
| S52042B | 81312 | Displaced fracture of coronoid process of left ulna, initial encounter for open fracture type I or II | Open fracture of coronoid process of ulna |
| S52042C | 81312 | Displaced fracture of coronoid process of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of coronoid process of ulna |
| S52044B | 81312 | Nondisplaced fracture of coronoid process of right ulna, initial encounter for open fracture type I or II | Open fracture of coronoid process of ulna |
| S52044C | 81312 | Nondisplaced fracture of coronoid process of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of coronoid process of ulna |
| S52045B | 81312 | Nondisplaced fracture of coronoid process of left ulna, initial encounter for open fracture type I or II | Open fracture of coronoid process of ulna |
| S52045C | 81312 | Nondisplaced fracture of coronoid process of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of coronoid process of ulna |
| S52271B | 81313 | Monteggia's fracture of right ulna, initial encounter for open fracture type I or II | Open Monteggia's fracture |
| S52271C | 81313 | Monteggia's fracture of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open Monteggia's fracture |
| S52272B | 81313 | Monteggia's fracture of left ulna, initial encounter for open fracture type I or II | Open Monteggia's fracture |
| S52272C | 81313 | Monteggia's fracture of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open Monteggia's fracture |
| S52001B | 81314 | Unspecified fracture of upper end of right ulna, initial encounter for open fracture type I or II | Other and unspecified open fractures of proximal end of ulna (alone) |
| S52001C | 81314 | Unspecified fracture of upper end of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other and unspecified open fractures of proximal end of ulna (alone) |
| S52002B | 81314 | Unspecified fracture of upper end of left ulna, initial encounter for open fracture type I or II | Other and unspecified open fractures of proximal end of ulna (alone) |
| S52002C | 81314 | Unspecified fracture of upper end of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other and unspecified open fractures of proximal end of ulna (alone) |
| S52091B | 81314 | Other fracture of upper end of right ulna, initial encounter for open fracture type I or II | Other and unspecified open fractures of proximal end of ulna (alone) |

Appendix A
Frailty markers

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|---------|-------|---|--|
| S52091C | 81314 | Other fracture of upper end of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other and unspecified open fractures of proximal end of ulna (alone) |
| S52092B | 81314 | Other fracture of upper end of left ulna, initial encounter for open fracture type I or II | Other and unspecified open fractures of proximal end of ulna (alone) |
| S52092C | 81314 | Other fracture of upper end of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other and unspecified open fractures of proximal end of ulna (alone) |
| S52121B | 81315 | Displaced fracture of head of right radius, initial encounter for open fracture type I or II | Open fracture of head of radius |
| S52121C | 81315 | Displaced fracture of head of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of head of radius |
| S52122B | 81315 | Displaced fracture of head of left radius, initial encounter for open fracture type I or II | Open fracture of head of radius |
| S52122C | 81315 | Displaced fracture of head of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of head of radius |
| S52124B | 81315 | Nondisplaced fracture of head of right radius, initial encounter for open fracture type I or II | Open fracture of head of radius |
| S52124C | 81315 | Nondisplaced fracture of head of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of head of radius |
| S52125B | 81315 | Nondisplaced fracture of head of left radius, initial encounter for open fracture type I or II | Open fracture of head of radius |
| S52125C | 81315 | Nondisplaced fracture of head of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of head of radius |
| S52131B | 81316 | Displaced fracture of neck of right radius, initial encounter for open fracture type I or II | Open fracture of neck of radius |
| S52131C | 81316 | Displaced fracture of neck of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of neck of radius |
| S52132B | 81316 | Displaced fracture of neck of left radius, initial encounter for open fracture type I or II | Open fracture of neck of radius |
| S52132C | 81316 | Displaced fracture of neck of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of neck of radius |
| S52134B | 81316 | Nondisplaced fracture of neck of right radius, initial encounter for open fracture type I or II | Open fracture of neck of radius |
| S52134C | 81316 | Nondisplaced fracture of neck of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of neck of radius |
| S52135B | 81316 | Nondisplaced fracture of neck of left radius, initial encounter for open fracture type I or II | Open fracture of neck of radius |
| S52135C | 81316 | Nondisplaced fracture of neck of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of neck of radius |
| S52101B | 81317 | Unspecified fracture of upper end of right radius, initial encounter for open fracture type I or II | Other and unspecified open fractures of proximal end of radius (alone) |
| S52101C | 81317 | Unspecified fracture of upper end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other and unspecified open fractures of proximal end of radius (alone) |
| S52102B | 81317 | Unspecified fracture of upper end of left radius, initial encounter for open fracture type I or II | Other and unspecified open fractures of proximal end of radius (alone) |
| S52102C | 81317 | Unspecified fracture of upper end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other and unspecified open fractures of proximal end of radius (alone) |
| S52181B | 81317 | Other fracture of upper end of right radius, initial encounter for open fracture type I or II | Other and unspecified open fractures of proximal end of radius (alone) |
| S52181C | 81317 | Other fracture of upper end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other and unspecified open fractures of proximal end of radius (alone) |
| S52182B | 81317 | Other fracture of upper end of left radius, initial encounter for open fracture type I or II | Other and unspecified open fractures of proximal end of radius (alone) |
| S52182C | 81317 | Other fracture of upper end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other and unspecified open fractures of proximal end of radius (alone) |
| S52009B | 81318 | Unspecified fracture of upper end of unspecified ulna, initial encounter for open fracture type I or II | Open fracture of radius with ulna, upper end (any part) |
| S52009C | 81318 | Unspecified fracture of upper end of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of radius with ulna, upper end (any part) |
| S52109B | 81318 | Unspecified fracture of upper end of unspecified radius, initial encounter for open fracture type I or II | Open fracture of radius with ulna, upper end (any part) |
| S52109C | 81318 | Unspecified fracture of upper end of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of radius with ulna, upper end (any part) |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|--|
| S52362A | 81321 | Displaced segmental fracture of shaft of radius, left arm, initial encounter for closed fracture | Closed fracture of shaft of radius (alone) |
| S52363A | 81321 | Displaced segmental fracture of shaft of radius, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of radius (alone) |
| S52364A | 81321 | Nondisplaced segmental fracture of shaft of radius, right arm, initial encounter for closed fracture | Closed fracture of shaft of radius (alone) |
| S52365A | 81321 | Nondisplaced segmental fracture of shaft of radius, left arm, initial encounter for closed fracture | Closed fracture of shaft of radius (alone) |
| S52366A | 81321 | Nondisplaced segmental fracture of shaft of radius, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of radius (alone) |
| S52371A | 81321 | Galeazzi's fracture of right radius, initial encounter for closed fracture | Closed fracture of shaft of radius (alone) |
| S52372A | 81321 | Galeazzi's fracture of left radius, initial encounter for closed fracture | Closed fracture of shaft of radius (alone) |
| S52379A | 81321 | Galeazzi's fracture of unspecified radius, initial encounter for closed fracture | Closed fracture of shaft of radius (alone) |
| S52381A | 81321 | Bent bone of right radius, initial encounter for closed fracture | Closed fracture of shaft of radius (alone) |
| S52382A | 81321 | Bent bone of left radius, initial encounter for closed fracture | Closed fracture of shaft of radius (alone) |
| S52389A | 81321 | Bent bone of unspecified radius, initial encounter for closed fracture | Closed fracture of shaft of radius (alone) |
| S52391A | 81321 | Other fracture of shaft of radius, right arm, initial encounter for closed fracture | Closed fracture of shaft of radius (alone) |
| S52392A | 81321 | Other fracture of shaft of radius, left arm, initial encounter for closed fracture | Closed fracture of shaft of radius (alone) |
| S52399A | 81321 | Other fracture of shaft of radius, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of radius (alone) |
| S52201A | 81322 | Unspecified fracture of shaft of right ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52202A | 81322 | Unspecified fracture of shaft of left ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52211A | 81322 | Greenstick fracture of shaft of right ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52212A | 81322 | Greenstick fracture of shaft of left ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52219A | 81322 | Greenstick fracture of shaft of unspecified ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52221A | 81322 | Displaced transverse fracture of shaft of right ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52222A | 81322 | Displaced transverse fracture of shaft of left ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52223A | 81322 | Displaced transverse fracture of shaft of unspecified ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52224A | 81322 | Nondisplaced transverse fracture of shaft of right ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52225A | 81322 | Nondisplaced transverse fracture of shaft of left ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52226A | 81322 | Nondisplaced transverse fracture of shaft of unspecified ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52231A | 81322 | Displaced oblique fracture of shaft of right ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52232A | 81322 | Displaced oblique fracture of shaft of left ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52233A | 81322 | Displaced oblique fracture of shaft of unspecified ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52234A | 81322 | Nondisplaced oblique fracture of shaft of right ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52235A | 81322 | Nondisplaced oblique fracture of shaft of left ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52236A | 81322 | Nondisplaced oblique fracture of shaft of unspecified ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|---|
| S52241A | 81322 | Displaced spiral fracture of shaft of ulna, right arm, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52242A | 81322 | Displaced spiral fracture of shaft of ulna, left arm, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52243A | 81322 | Displaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52244A | 81322 | Nondisplaced spiral fracture of shaft of ulna, right arm, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52245A | 81322 | Nondisplaced spiral fracture of shaft of ulna, left arm, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52246A | 81322 | Nondisplaced spiral fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52251A | 81322 | Displaced comminuted fracture of shaft of ulna, right arm, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52252A | 81322 | Displaced comminuted fracture of shaft of ulna, left arm, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52253A | 81322 | Displaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52254A | 81322 | Nondisplaced comminuted fracture of shaft of ulna, right arm, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52255A | 81322 | Nondisplaced comminuted fracture of shaft of ulna, left arm, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52256A | 81322 | Nondisplaced comminuted fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52261A | 81322 | Displaced segmental fracture of shaft of ulna, right arm, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52262A | 81322 | Displaced segmental fracture of shaft of ulna, left arm, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52263A | 81322 | Displaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52264A | 81322 | Nondisplaced segmental fracture of shaft of ulna, right arm, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52265A | 81322 | Nondisplaced segmental fracture of shaft of ulna, left arm, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52266A | 81322 | Nondisplaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52281A | 81322 | Bent bone of right ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52282A | 81322 | Bent bone of left ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52283A | 81322 | Bent bone of unspecified ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52291A | 81322 | Other fracture of shaft of right ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52292A | 81322 | Other fracture of shaft of left ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52299A | 81322 | Other fracture of shaft of unspecified ulna, initial encounter for closed fracture | Closed fracture of shaft of ulna (alone) |
| S52209A | 81323 | Unspecified fracture of shaft of unspecified ulna, initial encounter for closed fracture | Closed fracture of shaft of radius with ulna |
| S52309A | 81323 | Unspecified fracture of shaft of unspecified radius, initial encounter for closed fracture | Closed fracture of shaft of radius with ulna |
| S5290XB | 81330 | Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II | Open fracture of shaft of radius or ulna, unspecified |
| S5290XC | 81330 | Unspecified fracture of unspecified forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of radius or ulna, unspecified |
| S52301B | 81331 | Unspecified fracture of shaft of right radius, initial encounter for open fracture type I or II | Open fracture of shaft of radius (alone) |
| S52301C | 81331 | Unspecified fracture of shaft of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of radius (alone) |
| S52302B | 81331 | Unspecified fracture of shaft of left radius, initial encounter for open fracture type I or II | Open fracture of shaft of radius (alone) |
| S52302C | 81331 | Unspecified fracture of shaft of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of radius (alone) |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|--|
| S52365B | 81331 | Nondisplaced segmental fracture of shaft of radius, left arm, initial encounter for open fracture type I or II | Open fracture of shaft of radius (alone) |
| S52365C | 81331 | Nondisplaced segmental fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of radius (alone) |
| S52366B | 81331 | Nondisplaced segmental fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II | Open fracture of shaft of radius (alone) |
| S52366C | 81331 | Nondisplaced segmental fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of radius (alone) |
| S52371B | 81331 | Galeazzi's fracture of right radius, initial encounter for open fracture type I or II | Open fracture of shaft of radius (alone) |
| S52371C | 81331 | Galeazzi's fracture of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of radius (alone) |
| S52372B | 81331 | Galeazzi's fracture of left radius, initial encounter for open fracture type I or II | Open fracture of shaft of radius (alone) |
| S52372C | 81331 | Galeazzi's fracture of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of radius (alone) |
| S52379B | 81331 | Galeazzi's fracture of unspecified radius, initial encounter for open fracture type I or II | Open fracture of shaft of radius (alone) |
| S52379C | 81331 | Galeazzi's fracture of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of radius (alone) |
| S52381B | 81331 | Bent bone of right radius, initial encounter for open fracture type I or II | Open fracture of shaft of radius (alone) |
| S52381C | 81331 | Bent bone of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of radius (alone) |
| S52382B | 81331 | Bent bone of left radius, initial encounter for open fracture type I or II | Open fracture of shaft of radius (alone) |
| S52382C | 81331 | Bent bone of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of radius (alone) |
| S52389B | 81331 | Bent bone of unspecified radius, initial encounter for open fracture type I or II | Open fracture of shaft of radius (alone) |
| S52389C | 81331 | Bent bone of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of radius (alone) |
| S52391B | 81331 | Other fracture of shaft of radius, right arm, initial encounter for open fracture type I or II | Open fracture of shaft of radius (alone) |
| S52391C | 81331 | Other fracture of shaft of radius, right arm, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of radius (alone) |
| S52392B | 81331 | Other fracture of shaft of radius, left arm, initial encounter for open fracture type I or II | Open fracture of shaft of radius (alone) |
| S52392C | 81331 | Other fracture of shaft of radius, left arm, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of radius (alone) |
| S52399B | 81331 | Other fracture of shaft of radius, unspecified arm, initial encounter for open fracture type I or II | Open fracture of shaft of radius (alone) |
| S52399C | 81331 | Other fracture of shaft of radius, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of radius (alone) |
| S52201B | 81332 | Unspecified fracture of shaft of right ulna, initial encounter for open fracture type I or II | Open fracture of shaft of ulna (alone) |
| S52201C | 81332 | Unspecified fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of ulna (alone) |
| S52202B | 81332 | Unspecified fracture of shaft of left ulna, initial encounter for open fracture type I or II | Open fracture of shaft of ulna (alone) |
| S52202C | 81332 | Unspecified fracture of shaft of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of ulna (alone) |
| S52221B | 81332 | Displaced transverse fracture of shaft of right ulna, initial encounter for open fracture type I or II | Open fracture of shaft of ulna (alone) |
| S52221C | 81332 | Displaced transverse fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of ulna (alone) |
| S52222B | 81332 | Displaced transverse fracture of shaft of left ulna, initial encounter for open fracture type I or II | Open fracture of shaft of ulna (alone) |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|--|
| S52266C | 81332 | Nondisplaced segmental fracture of shaft of ulna, unspecified arm, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of ulna (alone) |
| S52281B | 81332 | Bent bone of right ulna, initial encounter for open fracture type I or II | Open fracture of shaft of ulna (alone) |
| S52281C | 81332 | Bent bone of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of ulna (alone) |
| S52282B | 81332 | Bent bone of left ulna, initial encounter for open fracture type I or II | Open fracture of shaft of ulna (alone) |
| S52282C | 81332 | Bent bone of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of ulna (alone) |
| S52283B | 81332 | Bent bone of unspecified ulna, initial encounter for open fracture type I or II | Open fracture of shaft of ulna (alone) |
| S52283C | 81332 | Bent bone of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of ulna (alone) |
| S52291B | 81332 | Other fracture of shaft of right ulna, initial encounter for open fracture type I or II | Open fracture of shaft of ulna (alone) |
| S52291C | 81332 | Other fracture of shaft of right ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of ulna (alone) |
| S52292B | 81332 | Other fracture of shaft of left ulna, initial encounter for open fracture type I or II | Open fracture of shaft of ulna (alone) |
| S52292C | 81332 | Other fracture of shaft of left ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of ulna (alone) |
| S52299B | 81332 | Other fracture of shaft of unspecified ulna, initial encounter for open fracture type I or II | Open fracture of shaft of ulna (alone) |
| S52299C | 81332 | Other fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of ulna (alone) |
| S52209B | 81333 | Unspecified fracture of shaft of unspecified ulna, initial encounter for open fracture type I or II | Open fracture of shaft of radius with ulna |
| S52209C | 81333 | Unspecified fracture of shaft of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of radius with ulna |
| S52309B | 81333 | Unspecified fracture of shaft of unspecified radius, initial encounter for open fracture type I or II | Open fracture of shaft of radius with ulna |
| S52309C | 81333 | Unspecified fracture of shaft of unspecified radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of radius with ulna |
| S5290XA | 81340 | Unspecified fracture of unspecified forearm, initial encounter for closed fracture | Closed fracture of lower end of forearm, unspecified |
| S52531A | 81341 | Colles' fracture of right radius, initial encounter for closed fracture | Closed Colles' fracture |
| S52532A | 81341 | Colles' fracture of left radius, initial encounter for closed fracture | Closed Colles' fracture |
| S52541A | 81341 | Smith's fracture of right radius, initial encounter for closed fracture | Closed Colles' fracture |
| S52542A | 81341 | Smith's fracture of left radius, initial encounter for closed fracture | Closed Colles' fracture |
| S52501A | 81342 | Unspecified fracture of the lower end of right radius, initial encounter for closed fracture | Other closed fractures of distal end of radius (alone) |
| S52502A | 81342 | Unspecified fracture of the lower end of left radius, initial encounter for closed fracture | Other closed fractures of distal end of radius (alone) |
| S52511A | 81342 | Displaced fracture of right radial styloid process, initial encounter for closed fracture | Other closed fractures of distal end of radius (alone) |
| S52512A | 81342 | Displaced fracture of left radial styloid process, initial encounter for closed fracture | Other closed fractures of distal end of radius (alone) |
| S52513A | 81342 | Displaced fracture of unspecified radial styloid process, initial encounter for closed fracture | Other closed fractures of distal end of radius (alone) |
| S52514A | 81342 | Nondisplaced fracture of right radial styloid process, initial encounter for closed fracture | Other closed fractures of distal end of radius (alone) |
| S52515A | 81342 | Nondisplaced fracture of left radial styloid process, initial encounter for closed fracture | Other closed fractures of distal end of radius (alone) |
| S52516A | 81342 | Nondisplaced fracture of unspecified radial styloid process, initial encounter for closed fracture | Other closed fractures of distal end of radius (alone) |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|--|
| S52602A | 81343 | Unspecified fracture of lower end of left ulna, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S52611A | 81343 | Displaced fracture of right ulna styloid process, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S52612A | 81343 | Displaced fracture of left ulna styloid process, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S52613A | 81343 | Displaced fracture of unspecified ulna styloid process, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S52614A | 81343 | Nondisplaced fracture of right ulna styloid process, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S52615A | 81343 | Nondisplaced fracture of left ulna styloid process, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S52616A | 81343 | Nondisplaced fracture of unspecified ulna styloid process, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S52691A | 81343 | Other fracture of lower end of right ulna, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S52692A | 81343 | Other fracture of lower end of left ulna, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S52699A | 81343 | Other fracture of lower end of unspecified ulna, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S59001A | 81343 | Unspecified physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S59002A | 81343 | Unspecified physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S59009A | 81343 | Unspecified physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S59011A | 81343 | Salter-Harris Type I physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S59012A | 81343 | Salter-Harris Type I physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S59019A | 81343 | Salter-Harris Type I physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S59021A | 81343 | Salter-Harris Type II physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S59022A | 81343 | Salter-Harris Type II physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S59029A | 81343 | Salter-Harris Type II physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S59031A | 81343 | Salter-Harris Type III physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S59032A | 81343 | Salter-Harris Type III physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S59039A | 81343 | Salter-Harris Type III physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S59041A | 81343 | Salter-Harris Type IV physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S59042A | 81343 | Salter-Harris Type IV physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S59049A | 81343 | Salter-Harris Type IV physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S59091A | 81343 | Other physeal fracture of lower end of ulna, right arm, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S59092A | 81343 | Other physeal fracture of lower end of ulna, left arm, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S59099A | 81343 | Other physeal fracture of lower end of ulna, unspecified arm, initial encounter for closed fracture | Closed fracture of distal end of ulna (alone) |
| S52509A | 81344 | Unspecified fracture of the lower end of unspecified radius, initial encounter for closed fracture | Closed fracture of lower end of radius with ulna |
| S52609A | 81344 | Unspecified fracture of lower end of unspecified ulna, initial encounter for closed fracture | Closed fracture of lower end of radius with ulna |
| S52111A | 81345 | Torus fracture of upper end of right radius, initial encounter for closed fracture | Torus fracture of radius (alone) |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|--|
| S52112A | 81345 | Torus fracture of upper end of left radius, initial encounter for closed fracture | Torus fracture of radius (alone) |
| S52521A | 81345 | Torus fracture of lower end of right radius, initial encounter for closed fracture | Torus fracture of radius (alone) |
| S52522A | 81345 | Torus fracture of lower end of left radius, initial encounter for closed fracture | Torus fracture of radius (alone) |
| S52011A | 81346 | Torus fracture of upper end of right ulna, initial encounter for closed fracture | Torus fracture of ulna (alone) |
| S52012A | 81346 | Torus fracture of upper end of left ulna, initial encounter for closed fracture | Torus fracture of ulna (alone) |
| S52621A | 81346 | Torus fracture of lower end of right ulna, initial encounter for closed fracture | Torus fracture of ulna (alone) |
| S52622A | 81346 | Torus fracture of lower end of left ulna, initial encounter for closed fracture | Torus fracture of ulna (alone) |
| S52011A | 81347 | Torus fracture of upper end of right ulna, initial encounter for closed fracture | Torus fracture of radius and ulna |
| S52012A | 81347 | Torus fracture of upper end of left ulna, initial encounter for closed fracture | Torus fracture of radius and ulna |
| S52111A | 81347 | Torus fracture of upper end of right radius, initial encounter for closed fracture | Torus fracture of radius and ulna |
| S52112A | 81347 | Torus fracture of upper end of left radius, initial encounter for closed fracture | Torus fracture of radius and ulna |
| S52521A | 81347 | Torus fracture of lower end of right radius, initial encounter for closed fracture | Torus fracture of radius and ulna |
| S52522A | 81347 | Torus fracture of lower end of left radius, initial encounter for closed fracture | Torus fracture of radius and ulna |
| S52621A | 81347 | Torus fracture of lower end of right ulna, initial encounter for closed fracture | Torus fracture of radius and ulna |
| S52622A | 81347 | Torus fracture of lower end of left ulna, initial encounter for closed fracture | Torus fracture of radius and ulna |
| S5290XB | 81350 | Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II | Open fracture of lower end of forearm, unspecified |
| S5290XC | 81350 | Unspecified fracture of unspecified forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of lower end of forearm, unspecified |
| S52531B | 81351 | Colles' fracture of right radius, initial encounter for open fracture type I or II | Open Colles' fracture |
| S52531C | 81351 | Colles' fracture of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open Colles' fracture |
| S52532B | 81351 | Colles' fracture of left radius, initial encounter for open fracture type I or II | Open Colles' fracture |
| S52532C | 81351 | Colles' fracture of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open Colles' fracture |
| S52501B | 81352 | Unspecified fracture of the lower end of right radius, initial encounter for open fracture type I or II | Other open fractures of distal end of radius (alone) |
| S52501C | 81352 | Unspecified fracture of the lower end of right radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other open fractures of distal end of radius (alone) |
| S52502B | 81352 | Unspecified fracture of the lower end of left radius, initial encounter for open fracture type I or II | Other open fractures of distal end of radius (alone) |
| S52502C | 81352 | Unspecified fracture of the lower end of left radius, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other open fractures of distal end of radius (alone) |
| S52511B | 81352 | Displaced fracture of right radial styloid process, initial encounter for open fracture type I or II | Other open fractures of distal end of radius (alone) |
| S52511C | 81352 | Displaced fracture of right radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other open fractures of distal end of radius (alone) |
| S52512B | 81352 | Displaced fracture of left radial styloid process, initial encounter for open fracture type I or II | Other open fractures of distal end of radius (alone) |
| S52512C | 81352 | Displaced fracture of left radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other open fractures of distal end of radius (alone) |
| S52513B | 81352 | Displaced fracture of unspecified radial styloid process, initial encounter for open fracture type I or II | Other open fractures of distal end of radius (alone) |
| S52513C | 81352 | Displaced fracture of unspecified radial styloid process, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other open fractures of distal end of radius (alone) |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|---|
| S52609C | 81354 | Unspecified fracture of lower end of unspecified ulna, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of lower end of radius with ulna |
| S5291XA | 81380 | Unspecified fracture of right forearm, initial encounter for closed fracture | Closed fracture of unspecified part of forearm |
| S5292XA | 81380 | Unspecified fracture of left forearm, initial encounter for closed fracture | Closed fracture of unspecified part of forearm |
| S5290XA | 81381 | Unspecified fracture of unspecified forearm, initial encounter for closed fracture | Closed fracture of unspecified part of radius (alone) |
| S5290XA | 81382 | Unspecified fracture of unspecified forearm, initial encounter for closed fracture | Closed fracture of unspecified part of ulna (alone) |
| S5290XA | 81383 | Unspecified fracture of unspecified forearm, initial encounter for closed fracture | Closed fracture of unspecified part of radius with ulna |
| S5291XB | 81390 | Unspecified fracture of right forearm, initial encounter for open fracture type I or II | Open fracture of unspecified part of forearm |
| S5291XC | 81390 | Unspecified fracture of right forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of unspecified part of forearm |
| S5292XB | 81390 | Unspecified fracture of left forearm, initial encounter for open fracture type I or II | Open fracture of unspecified part of forearm |
| S5292XC | 81390 | Unspecified fracture of left forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of unspecified part of forearm |
| S5290XB | 81391 | Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II | Open fracture of unspecified part of radius (alone) |
| S5290XC | 81391 | Unspecified fracture of unspecified forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of unspecified part of radius (alone) |
| S5290XB | 81392 | Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II | Open fracture of unspecified part of ulna (alone) |
| S5290XC | 81392 | Unspecified fracture of unspecified forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of unspecified part of ulna (alone) |
| S5290XB | 81393 | Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II | Open fracture of unspecified part of radius with ulna |
| S5290XC | 81393 | Unspecified fracture of unspecified forearm, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of unspecified part of radius with ulna |
| S62101A | 81400 | Fracture of unspecified carpal bone, right wrist, initial encounter for closed fracture | Closed fracture of carpal bone, unspecified |
| S62102A | 81400 | Fracture of unspecified carpal bone, left wrist, initial encounter for closed fracture | Closed fracture of carpal bone, unspecified |
| S62001A | 81401 | Unspecified fracture of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62002A | 81401 | Unspecified fracture of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62011A | 81401 | Displaced fracture of distal pole of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62012A | 81401 | Displaced fracture of distal pole of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62013A | 81401 | Displaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62014A | 81401 | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62015A | 81401 | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62016A | 81401 | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62021A | 81401 | Displaced fracture of middle third of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62022A | 81401 | Displaced fracture of middle third of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62023A | 81401 | Displaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |

Appendix A
Frailty markers

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|---------|-------|--|--|
| S62024A | 81401 | Nondisplaced fracture of middle third of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62025A | 81401 | Nondisplaced fracture of middle third of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62026A | 81401 | Nondisplaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62031A | 81401 | Displaced fracture of proximal third of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62032A | 81401 | Displaced fracture of proximal third of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62033A | 81401 | Displaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62034A | 81401 | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of right wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62035A | 81401 | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of left wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62036A | 81401 | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, initial encounter for closed fracture | Closed fracture of navicular [scaphoid] bone of wrist |
| S62121A | 81402 | Displaced fracture of lunate [semilunar], right wrist, initial encounter for closed fracture | Closed fracture of lunate [semilunar] bone of wrist |
| S62122A | 81402 | Displaced fracture of lunate [semilunar], left wrist, initial encounter for closed fracture | Closed fracture of lunate [semilunar] bone of wrist |
| S62124A | 81402 | Nondisplaced fracture of lunate [semilunar], right wrist, initial encounter for closed fracture | Closed fracture of lunate [semilunar] bone of wrist |
| S62125A | 81402 | Nondisplaced fracture of lunate [semilunar], left wrist, initial encounter for closed fracture | Closed fracture of lunate [semilunar] bone of wrist |
| S62111A | 81403 | Displaced fracture of triquetrum [cuneiform] bone, right wrist, initial encounter for closed fracture | Closed fracture of triquetral [cuneiform] bone of wrist |
| S62112A | 81403 | Displaced fracture of triquetrum [cuneiform] bone, left wrist, initial encounter for closed fracture | Closed fracture of triquetral [cuneiform] bone of wrist |
| S62114A | 81403 | Nondisplaced fracture of triquetrum [cuneiform] bone, right wrist, initial encounter for closed fracture | Closed fracture of triquetral [cuneiform] bone of wrist |
| S62115A | 81403 | Nondisplaced fracture of triquetrum [cuneiform] bone, left wrist, initial encounter for closed fracture | Closed fracture of triquetral [cuneiform] bone of wrist |
| S62161A | 81404 | Displaced fracture of pisiform, right wrist, initial encounter for closed fracture | Closed fracture of pisiform bone of wrist |
| S62162A | 81404 | Displaced fracture of pisiform, left wrist, initial encounter for closed fracture | Closed fracture of pisiform bone of wrist |
| S62164A | 81404 | Nondisplaced fracture of pisiform, right wrist, initial encounter for closed fracture | Closed fracture of pisiform bone of wrist |
| S62165A | 81404 | Nondisplaced fracture of pisiform, left wrist, initial encounter for closed fracture | Closed fracture of pisiform bone of wrist |
| S62171A | 81405 | Displaced fracture of trapezium [larger multangular], right wrist, initial encounter for closed fracture | Closed fracture of trapezium bone [larger multangular] of wrist |
| S62172A | 81405 | Displaced fracture of trapezium [larger multangular], left wrist, initial encounter for closed fracture | Closed fracture of trapezium bone [larger multangular] of wrist |
| S62174A | 81405 | Nondisplaced fracture of trapezium [larger multangular], right wrist, initial encounter for closed fracture | Closed fracture of trapezium bone [larger multangular] of wrist |
| S62175A | 81405 | Nondisplaced fracture of trapezium [larger multangular], left wrist, initial encounter for closed fracture | Closed fracture of trapezium bone [larger multangular] of wrist |
| S62181A | 81406 | Displaced fracture of trapezoid [smaller multangular], right wrist, initial encounter for closed fracture | Closed fracture of trapezoid bone [smaller multangular] of wrist |
| S62182A | 81406 | Displaced fracture of trapezoid [smaller multangular], left wrist, initial encounter for closed fracture | Closed fracture of trapezoid bone [smaller multangular] of wrist |

Appendix A
Frailty markers

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|---------|-------|---|--|
| S62184A | 81406 | Nondisplaced fracture of trapezoid [smaller multangular], right wrist, initial encounter for closed fracture | Closed fracture of trapezoid bone [smaller multangular] of wrist |
| S62185A | 81406 | Nondisplaced fracture of trapezoid [smaller multangular], left wrist, initial encounter for closed fracture | Closed fracture of trapezoid bone [smaller multangular] of wrist |
| S62131A | 81407 | Displaced fracture of capitate [os magnum] bone, right wrist, initial encounter for closed fracture | Closed fracture of capitate bone [os magnum] of wrist |
| S62132A | 81407 | Displaced fracture of capitate [os magnum] bone, left wrist, initial encounter for closed fracture | Closed fracture of capitate bone [os magnum] of wrist |
| S62134A | 81407 | Nondisplaced fracture of capitate [os magnum] bone, right wrist, initial encounter for closed fracture | Closed fracture of capitate bone [os magnum] of wrist |
| S62135A | 81407 | Nondisplaced fracture of capitate [os magnum] bone, left wrist, initial encounter for closed fracture | Closed fracture of capitate bone [os magnum] of wrist |
| S62141A | 81408 | Displaced fracture of body of hamate [unciform] bone, right wrist, initial encounter for closed fracture | Closed fracture of hamate [unciform] bone of wrist |
| S62142A | 81408 | Displaced fracture of body of hamate [unciform] bone, left wrist, initial encounter for closed fracture | Closed fracture of hamate [unciform] bone of wrist |
| S62144A | 81408 | Nondisplaced fracture of body of hamate [unciform] bone, right wrist, initial encounter for closed fracture | Closed fracture of hamate [unciform] bone of wrist |
| S62145A | 81408 | Nondisplaced fracture of body of hamate [unciform] bone, left wrist, initial encounter for closed fracture | Closed fracture of hamate [unciform] bone of wrist |
| S62151A | 81409 | Displaced fracture of hook process of hamate [unciform] bone, right wrist, initial encounter for closed fracture | Closed fracture of other bone of wrist |
| S62152A | 81409 | Displaced fracture of hook process of hamate [unciform] bone, left wrist, initial encounter for closed fracture | Closed fracture of other bone of wrist |
| S62154A | 81409 | Nondisplaced fracture of hook process of hamate [unciform] bone, right wrist, initial encounter for closed fracture | Closed fracture of other bone of wrist |
| S62155A | 81409 | Nondisplaced fracture of hook process of hamate [unciform] bone, left wrist, initial encounter for closed fracture | Closed fracture of other bone of wrist |
| S62101B | 81410 | Fracture of unspecified carpal bone, right wrist, initial encounter for open fracture | Open fracture of carpal bone, unspecified |
| S62102B | 81410 | Fracture of unspecified carpal bone, left wrist, initial encounter for open fracture | Open fracture of carpal bone, unspecified |
| S62001B | 81411 | Unspecified fracture of navicular [scaphoid] bone of right wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62002B | 81411 | Unspecified fracture of navicular [scaphoid] bone of left wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62011B | 81411 | Displaced fracture of distal pole of navicular [scaphoid] bone of right wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62012B | 81411 | Displaced fracture of distal pole of navicular [scaphoid] bone of left wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62013B | 81411 | Displaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62014B | 81411 | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of right wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62015B | 81411 | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of left wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62016B | 81411 | Nondisplaced fracture of distal pole of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62021B | 81411 | Displaced fracture of middle third of navicular [scaphoid] bone of right wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62022B | 81411 | Displaced fracture of middle third of navicular [scaphoid] bone of left wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62023B | 81411 | Displaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62024B | 81411 | Nondisplaced fracture of middle third of navicular [scaphoid] bone of right wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |

Appendix A
Frailty markers

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|---------|-------|--|--|
| S62025B | 81411 | Nondisplaced fracture of middle third of navicular [scaphoid] bone of left wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62026B | 81411 | Nondisplaced fracture of middle third of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62031B | 81411 | Displaced fracture of proximal third of navicular [scaphoid] bone of right wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62032B | 81411 | Displaced fracture of proximal third of navicular [scaphoid] bone of left wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62033B | 81411 | Displaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62034B | 81411 | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of right wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62035B | 81411 | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of left wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62036B | 81411 | Nondisplaced fracture of proximal third of navicular [scaphoid] bone of unspecified wrist, initial encounter for open fracture | Open fracture of navicular [scaphoid] bone of wrist |
| S62121B | 81412 | Displaced fracture of lunate [semilunar], right wrist, initial encounter for open fracture | Open fracture of lunate [semilunar] bone of wrist |
| S62122B | 81412 | Displaced fracture of lunate [semilunar], left wrist, initial encounter for open fracture | Open fracture of lunate [semilunar] bone of wrist |
| S62124B | 81412 | Nondisplaced fracture of lunate [semilunar], right wrist, initial encounter for open fracture | Open fracture of lunate [semilunar] bone of wrist |
| S62125B | 81412 | Nondisplaced fracture of lunate [semilunar], left wrist, initial encounter for open fracture | Open fracture of lunate [semilunar] bone of wrist |
| S62111B | 81413 | Displaced fracture of triquetrum [cuneiform] bone, right wrist, initial encounter for open fracture | Open fracture of triquetral [cuneiform] bone of wrist |
| S62112B | 81413 | Displaced fracture of triquetrum [cuneiform] bone, left wrist, initial encounter for open fracture | Open fracture of triquetral [cuneiform] bone of wrist |
| S62114B | 81413 | Nondisplaced fracture of triquetrum [cuneiform] bone, right wrist, initial encounter for open fracture | Open fracture of triquetral [cuneiform] bone of wrist |
| S62115B | 81413 | Nondisplaced fracture of triquetrum [cuneiform] bone, left wrist, initial encounter for open fracture | Open fracture of triquetral [cuneiform] bone of wrist |
| S62161B | 81414 | Displaced fracture of pisiform, right wrist, initial encounter for open fracture | Open fracture of pisiform bone of wrist |
| S62162B | 81414 | Displaced fracture of pisiform, left wrist, initial encounter for open fracture | Open fracture of pisiform bone of wrist |
| S62164B | 81414 | Nondisplaced fracture of pisiform, right wrist, initial encounter for open fracture | Open fracture of pisiform bone of wrist |
| S62165B | 81414 | Nondisplaced fracture of pisiform, left wrist, initial encounter for open fracture | Open fracture of pisiform bone of wrist |
| S62171B | 81415 | Displaced fracture of trapezium [larger multangular], right wrist, initial encounter for open fracture | Open fracture of trapezium bone [larger multangular] of wrist |
| S62172B | 81415 | Displaced fracture of trapezium [larger multangular], left wrist, initial encounter for open fracture | Open fracture of trapezium bone [larger multangular] of wrist |
| S62174B | 81415 | Nondisplaced fracture of trapezium [larger multangular], right wrist, initial encounter for open fracture | Open fracture of trapezium bone [larger multangular] of wrist |
| S62175B | 81415 | Nondisplaced fracture of trapezium [larger multangular], left wrist, initial encounter for open fracture | Open fracture of trapezium bone [larger multangular] of wrist |
| S62181B | 81416 | Displaced fracture of trapezoid [smaller multangular], right wrist, initial encounter for open fracture | Open fracture of trapezoid bone [smaller multangular] of wrist |
| S62182B | 81416 | Displaced fracture of trapezoid [smaller multangular], left wrist, initial encounter for open fracture | Open fracture of trapezoid bone [smaller multangular] of wrist |
| S62184B | 81416 | Nondisplaced fracture of trapezoid [smaller multangular], right wrist, initial encounter for open fracture | Open fracture of trapezoid bone [smaller multangular] of wrist |
| S62185B | 81416 | Nondisplaced fracture of trapezoid [smaller multangular], left wrist, initial encounter for open fracture | Open fracture of trapezoid bone [smaller multangular] of wrist |

Appendix A
Frailty markers

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|---------|-------|---|---|
| S62131B | 81417 | Displaced fracture of capitate [os magnum] bone, right wrist, initial encounter for open fracture | Open fracture of capitate bone [os magnum] of wrist |
| S62132B | 81417 | Displaced fracture of capitate [os magnum] bone, left wrist, initial encounter for open fracture | Open fracture of capitate bone [os magnum] of wrist |
| S62134B | 81417 | Nondisplaced fracture of capitate [os magnum] bone, right wrist, initial encounter for open fracture | Open fracture of capitate bone [os magnum] of wrist |
| S62135B | 81417 | Nondisplaced fracture of capitate [os magnum] bone, left wrist, initial encounter for open fracture | Open fracture of capitate bone [os magnum] of wrist |
| S62141B | 81418 | Displaced fracture of body of hamate [unciform] bone, right wrist, initial encounter for open fracture | Open fracture of hamate [unciform] bone of wrist |
| S62142B | 81418 | Displaced fracture of body of hamate [unciform] bone, left wrist, initial encounter for open fracture | Open fracture of hamate [unciform] bone of wrist |
| S62144B | 81418 | Nondisplaced fracture of body of hamate [unciform] bone, right wrist, initial encounter for open fracture | Open fracture of hamate [unciform] bone of wrist |
| S62145B | 81418 | Nondisplaced fracture of body of hamate [unciform] bone, left wrist, initial encounter for open fracture | Open fracture of hamate [unciform] bone of wrist |
| S62151B | 81419 | Displaced fracture of hook process of hamate [unciform] bone, right wrist, initial encounter for open fracture | Open fracture of other bone of wrist |
| S62152B | 81419 | Displaced fracture of hook process of hamate [unciform] bone, left wrist, initial encounter for open fracture | Open fracture of other bone of wrist |
| S62154B | 81419 | Nondisplaced fracture of hook process of hamate [unciform] bone, right wrist, initial encounter for open fracture | Open fracture of other bone of wrist |
| S62155B | 81419 | Nondisplaced fracture of hook process of hamate [unciform] bone, left wrist, initial encounter for open fracture | Open fracture of other bone of wrist |
| S62319A | 81500 | Displaced fracture of base of unspecified metacarpal bone, initial encounter for closed fracture | Closed fracture of metacarpal bone(s), site unspecified |
| S62329A | 81500 | Displaced fracture of shaft of unspecified metacarpal bone, initial encounter for closed fracture | Closed fracture of metacarpal bone(s), site unspecified |
| S62339A | 81500 | Displaced fracture of neck of unspecified metacarpal bone, initial encounter for closed fracture | Closed fracture of metacarpal bone(s), site unspecified |
| S62349A | 81500 | Nondisplaced fracture of base of unspecified metacarpal bone, initial encounter for closed fracture | Closed fracture of metacarpal bone(s), site unspecified |
| S62359A | 81500 | Nondisplaced fracture of shaft of unspecified metacarpal bone, initial encounter for closed fracture | Closed fracture of metacarpal bone(s), site unspecified |
| S62369A | 81500 | Nondisplaced fracture of neck of unspecified metacarpal bone, initial encounter for closed fracture | Closed fracture of metacarpal bone(s), site unspecified |
| S62399A | 81500 | Other fracture of unspecified metacarpal bone, initial encounter for closed fracture | Closed fracture of metacarpal bone(s), site unspecified |
| S62201A | 81501 | Unspecified fracture of first metacarpal bone, right hand, initial encounter for closed fracture | Closed fracture of base of thumb [first] metacarpal |
| S62202A | 81501 | Unspecified fracture of first metacarpal bone, left hand, initial encounter for closed fracture | Closed fracture of base of thumb [first] metacarpal |
| S62209A | 81501 | Unspecified fracture of first metacarpal bone, unspecified hand, initial encounter for closed fracture | Closed fracture of base of thumb [first] metacarpal |
| S62211A | 81501 | Bennett's fracture, right hand, initial encounter for closed fracture | Closed fracture of base of thumb [first] metacarpal |
| S62212A | 81501 | Bennett's fracture, left hand, initial encounter for closed fracture | Closed fracture of base of thumb [first] metacarpal |
| S62213A | 81501 | Bennett's fracture, unspecified hand, initial encounter for closed fracture | Closed fracture of base of thumb [first] metacarpal |
| S62221A | 81501 | Displaced Rolando's fracture, right hand, initial encounter for closed fracture | Closed fracture of base of thumb [first] metacarpal |
| S62222A | 81501 | Displaced Rolando's fracture, left hand, initial encounter for closed fracture | Closed fracture of base of thumb [first] metacarpal |
| S62223A | 81501 | Displaced Rolando's fracture, unspecified hand, initial encounter for closed fracture | Closed fracture of base of thumb [first] metacarpal |
| S62224A | 81501 | Nondisplaced Rolando's fracture, right hand, initial encounter for closed fracture | Closed fracture of base of thumb [first] metacarpal |
| S62225A | 81501 | Nondisplaced Rolando's fracture, left hand, initial encounter for closed fracture | Closed fracture of base of thumb [first] metacarpal |
| S62226A | 81501 | Nondisplaced Rolando's fracture, unspecified hand, initial encounter for closed fracture | Closed fracture of base of thumb [first] metacarpal |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|---|
| S62361A | 81504 | Nondisplaced fracture of neck of second metacarpal bone, left hand, initial encounter for closed fracture | Closed fracture of neck of metacarpal bone(s) |
| S62362A | 81504 | Nondisplaced fracture of neck of third metacarpal bone, right hand, initial encounter for closed fracture | Closed fracture of neck of metacarpal bone(s) |
| S62363A | 81504 | Nondisplaced fracture of neck of third metacarpal bone, left hand, initial encounter for closed fracture | Closed fracture of neck of metacarpal bone(s) |
| S62364A | 81504 | Nondisplaced fracture of neck of fourth metacarpal bone, right hand, initial encounter for closed fracture | Closed fracture of neck of metacarpal bone(s) |
| S62365A | 81504 | Nondisplaced fracture of neck of fourth metacarpal bone, left hand, initial encounter for closed fracture | Closed fracture of neck of metacarpal bone(s) |
| S62366A | 81504 | Nondisplaced fracture of neck of fifth metacarpal bone, right hand, initial encounter for closed fracture | Closed fracture of neck of metacarpal bone(s) |
| S62367A | 81504 | Nondisplaced fracture of neck of fifth metacarpal bone, left hand, initial encounter for closed fracture | Closed fracture of neck of metacarpal bone(s) |
| S62368A | 81504 | Nondisplaced fracture of neck of other metacarpal bone, initial encounter for closed fracture | Closed fracture of neck of metacarpal bone(s) |
| S62291A | 81509 | Other fracture of first metacarpal bone, right hand, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62292A | 81509 | Other fracture of first metacarpal bone, left hand, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62299A | 81509 | Other fracture of first metacarpal bone, unspecified hand, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62300A | 81509 | Unspecified fracture of second metacarpal bone, right hand, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62301A | 81509 | Unspecified fracture of second metacarpal bone, left hand, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62302A | 81509 | Unspecified fracture of third metacarpal bone, right hand, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62303A | 81509 | Unspecified fracture of third metacarpal bone, left hand, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62304A | 81509 | Unspecified fracture of fourth metacarpal bone, right hand, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62305A | 81509 | Unspecified fracture of fourth metacarpal bone, left hand, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62306A | 81509 | Unspecified fracture of fifth metacarpal bone, right hand, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62307A | 81509 | Unspecified fracture of fifth metacarpal bone, left hand, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62308A | 81509 | Unspecified fracture of other metacarpal bone, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62309A | 81509 | Unspecified fracture of unspecified metacarpal bone, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62390A | 81509 | Other fracture of second metacarpal bone, right hand, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62391A | 81509 | Other fracture of second metacarpal bone, left hand, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62392A | 81509 | Other fracture of third metacarpal bone, right hand, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62393A | 81509 | Other fracture of third metacarpal bone, left hand, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62394A | 81509 | Other fracture of fourth metacarpal bone, right hand, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62395A | 81509 | Other fracture of fourth metacarpal bone, left hand, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62396A | 81509 | Other fracture of fifth metacarpal bone, right hand, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62397A | 81509 | Other fracture of fifth metacarpal bone, left hand, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62398A | 81509 | Other fracture of other metacarpal bone, initial encounter for closed fracture | Closed fracture of multiple sites of metacarpus |
| S62201B | 81511 | Unspecified fracture of first metacarpal bone, right hand, initial encounter for open fracture | Open fracture of base of thumb [first] metacarpal |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|--|
| S62309B | 81519 | Unspecified fracture of unspecified metacarpal bone, initial encounter for open fracture | Open fracture of multiple sites of metacarpus |
| S62390B | 81519 | Other fracture of second metacarpal bone, right hand, initial encounter for open fracture | Open fracture of multiple sites of metacarpus |
| S62391B | 81519 | Other fracture of second metacarpal bone, left hand, initial encounter for open fracture | Open fracture of multiple sites of metacarpus |
| S62392B | 81519 | Other fracture of third metacarpal bone, right hand, initial encounter for open fracture | Open fracture of multiple sites of metacarpus |
| S62393B | 81519 | Other fracture of third metacarpal bone, left hand, initial encounter for open fracture | Open fracture of multiple sites of metacarpus |
| S62394B | 81519 | Other fracture of fourth metacarpal bone, right hand, initial encounter for open fracture | Open fracture of multiple sites of metacarpus |
| S62395B | 81519 | Other fracture of fourth metacarpal bone, left hand, initial encounter for open fracture | Open fracture of multiple sites of metacarpus |
| S62396B | 81519 | Other fracture of fifth metacarpal bone, right hand, initial encounter for open fracture | Open fracture of multiple sites of metacarpus |
| S62397B | 81519 | Other fracture of fifth metacarpal bone, left hand, initial encounter for open fracture | Open fracture of multiple sites of metacarpus |
| S62398B | 81519 | Other fracture of other metacarpal bone, initial encounter for open fracture | Open fracture of multiple sites of metacarpus |
| S62501A | 81600 | Fracture of unspecified phalanx of right thumb, initial encounter for closed fracture | Closed fracture of phalanx or phalanges of hand, unspecified |
| S62502A | 81600 | Fracture of unspecified phalanx of left thumb, initial encounter for closed fracture | Closed fracture of phalanx or phalanges of hand, unspecified |
| S62600A | 81600 | Fracture of unspecified phalanx of right index finger, initial encounter for closed fracture | Closed fracture of phalanx or phalanges of hand, unspecified |
| S62601A | 81600 | Fracture of unspecified phalanx of left index finger, initial encounter for closed fracture | Closed fracture of phalanx or phalanges of hand, unspecified |
| S62602A | 81600 | Fracture of unspecified phalanx of right middle finger, initial encounter for closed fracture | Closed fracture of phalanx or phalanges of hand, unspecified |
| S62603A | 81600 | Fracture of unspecified phalanx of left middle finger, initial encounter for closed fracture | Closed fracture of phalanx or phalanges of hand, unspecified |
| S62604A | 81600 | Fracture of unspecified phalanx of right ring finger, initial encounter for closed fracture | Closed fracture of phalanx or phalanges of hand, unspecified |
| S62605A | 81600 | Fracture of unspecified phalanx of left ring finger, initial encounter for closed fracture | Closed fracture of phalanx or phalanges of hand, unspecified |
| S62606A | 81600 | Fracture of unspecified phalanx of right little finger, initial encounter for closed fracture | Closed fracture of phalanx or phalanges of hand, unspecified |
| S62607A | 81600 | Fracture of unspecified phalanx of left little finger, initial encounter for closed fracture | Closed fracture of phalanx or phalanges of hand, unspecified |
| S62608A | 81600 | Fracture of unspecified phalanx of other finger, initial encounter for closed fracture | Closed fracture of phalanx or phalanges of hand, unspecified |
| S62511A | 81601 | Displaced fracture of proximal phalanx of right thumb, initial encounter for closed fracture | Closed fracture of middle or proximal phalanx or phalanges of hand |
| S62512A | 81601 | Displaced fracture of proximal phalanx of left thumb, initial encounter for closed fracture | Closed fracture of middle or proximal phalanx or phalanges of hand |
| S62514A | 81601 | Nondisplaced fracture of proximal phalanx of right thumb, initial encounter for closed fracture | Closed fracture of middle or proximal phalanx or phalanges of hand |
| S62515A | 81601 | Nondisplaced fracture of proximal phalanx of left thumb, initial encounter for closed fracture | Closed fracture of middle or proximal phalanx or phalanges of hand |
| S62610A | 81601 | Displaced fracture of proximal phalanx of right index finger, initial encounter for closed fracture | Closed fracture of middle or proximal phalanx or phalanges of hand |
| S62611A | 81601 | Displaced fracture of proximal phalanx of left index finger, initial encounter for closed fracture | Closed fracture of middle or proximal phalanx or phalanges of hand |
| S62612A | 81601 | Displaced fracture of proximal phalanx of right middle finger, initial encounter for closed fracture | Closed fracture of middle or proximal phalanx or phalanges of hand |
| S62613A | 81601 | Displaced fracture of proximal phalanx of left middle finger, initial encounter for closed fracture | Closed fracture of middle or proximal phalanx or phalanges of hand |
| S62614A | 81601 | Displaced fracture of proximal phalanx of right ring finger, initial encounter for closed fracture | Closed fracture of middle or proximal phalanx or phalanges of hand |
| S62615A | 81601 | Displaced fracture of proximal phalanx of left ring finger, initial encounter for closed fracture | Closed fracture of middle or proximal phalanx or phalanges of hand |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|--|
| S62665B | 81612 | Nondisplaced fracture of distal phalanx of left ring finger, initial encounter for open fracture | Open fracture of distal phalanx or phalanges of hand |
| S62666B | 81612 | Nondisplaced fracture of distal phalanx of right little finger, initial encounter for open fracture | Open fracture of distal phalanx or phalanges of hand |
| S62667B | 81612 | Nondisplaced fracture of distal phalanx of left little finger, initial encounter for open fracture | Open fracture of distal phalanx or phalanges of hand |
| S62668B | 81612 | Nondisplaced fracture of distal phalanx of other finger, initial encounter for open fracture | Open fracture of distal phalanx or phalanges of hand |
| S6290XB | 81613 | Unspecified fracture of unspecified wrist and hand, initial encounter for open fracture | Open fracture of multiple sites of phalanx or phalanges of hand |
| S6291XB | 81613 | Unspecified fracture of right wrist and hand, initial encounter for open fracture | Open fracture of multiple sites of phalanx or phalanges of hand |
| S6292XB | 81613 | Unspecified fracture of left wrist and hand, initial encounter for open fracture | Open fracture of multiple sites of phalanx or phalanges of hand |
| S6290XB | 8171 | Unspecified fracture of unspecified wrist and hand, initial encounter for open fracture | Multiple open fractures of hand bones |
| S6290XA | 8180 | Unspecified fracture of unspecified wrist and hand, initial encounter for closed fracture | Ill-defined closed fractures of upper limb |
| S2220XA | 8190 | Unspecified fracture of sternum, initial encounter for closed fracture | Multiple closed fractures involving both upper limbs, and upper limb with rib(s) and sternum |
| S2249XA | 8190 | Multiple fractures of ribs, unspecified side, initial encounter for closed fracture | Multiple closed fractures involving both upper limbs, and upper limb with rib(s) and sternum |
| S4290XA | 8190 | Fracture of unspecified shoulder girdle, part unspecified, initial encounter for closed fracture | Multiple closed fractures involving both upper limbs, and upper limb with rib(s) and sternum |
| S4291XA | 8190 | Fracture of right shoulder girdle, part unspecified, initial encounter for closed fracture | Multiple closed fractures involving both upper limbs, and upper limb with rib(s) and sternum |
| S4292XA | 8190 | Fracture of left shoulder girdle, part unspecified, initial encounter for closed fracture | Multiple closed fractures involving both upper limbs, and upper limb with rib(s) and sternum |
| S5290XA | 8190 | Unspecified fracture of unspecified forearm, initial encounter for closed fracture | Multiple closed fractures involving both upper limbs, and upper limb with rib(s) and sternum |
| S5291XA | 8190 | Unspecified fracture of right forearm, initial encounter for closed fracture | Multiple closed fractures involving both upper limbs, and upper limb with rib(s) and sternum |
| S5292XA | 8190 | Unspecified fracture of left forearm, initial encounter for closed fracture | Multiple closed fractures involving both upper limbs, and upper limb with rib(s) and sternum |
| S2220XB | 8191 | Unspecified fracture of sternum, initial encounter for open fracture | Multiple open fractures involving both upper limbs, and upper limb with rib(s) and sternum |
| S2249XB | 8191 | Multiple fractures of ribs, unspecified side, initial encounter for open fracture | Multiple open fractures involving both upper limbs, and upper limb with rib(s) and sternum |
| S4290XB | 8191 | Fracture of unspecified shoulder girdle, part unspecified, initial encounter for open fracture | Multiple open fractures involving both upper limbs, and upper limb with rib(s) and sternum |
| S4291XB | 8191 | Fracture of right shoulder girdle, part unspecified, initial encounter for open fracture | Multiple open fractures involving both upper limbs, and upper limb with rib(s) and sternum |
| S4292XB | 8191 | Fracture of left shoulder girdle, part unspecified, initial encounter for open fracture | Multiple open fractures involving both upper limbs, and upper limb with rib(s) and sternum |
| S5290XB | 8191 | Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II | Multiple open fractures involving both upper limbs, and upper limb with rib(s) and sternum |
| S5291XB | 8191 | Unspecified fracture of right forearm, initial encounter for open fracture type I or II | Multiple open fractures involving both upper limbs, and upper limb with rib(s) and sternum |
| S5292XB | 8191 | Unspecified fracture of left forearm, initial encounter for open fracture type I or II | Multiple open fractures involving both upper limbs, and upper limb with rib(s) and sternum |
| S72011A | 82000 | Unspecified intracapsular fracture of right femur, initial encounter for closed fracture | Closed fracture of intracapsular section of neck of femur, unspecified |
| S72012A | 82000 | Unspecified intracapsular fracture of left femur, initial encounter for closed fracture | Closed fracture of intracapsular section of neck of femur, unspecified |
| S72021A | 82001 | Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for closed fracture | Closed fracture of epiphysis (separation) (upper) of neck of femur |
| S72022A | 82001 | Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for closed fracture | Closed fracture of epiphysis (separation) (upper) of neck of femur |
| S72024A | 82001 | Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for closed fracture | Closed fracture of epiphysis (separation) (upper) of neck of femur |
| S72025A | 82001 | Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for closed fracture | Closed fracture of epiphysis (separation) (upper) of neck of femur |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|--|
| S79001A | 82001 | Unspecified physeal fracture of upper end of right femur, initial encounter for closed fracture | Closed fracture of epiphysis (separation) (upper) of neck of femur |
| S79002A | 82001 | Unspecified physeal fracture of upper end of left femur, initial encounter for closed fracture | Closed fracture of epiphysis (separation) (upper) of neck of femur |
| S79009A | 82001 | Unspecified physeal fracture of upper end of unspecified femur, initial encounter for closed fracture | Closed fracture of epiphysis (separation) (upper) of neck of femur |
| S79011A | 82001 | Salter-Harris Type I physeal fracture of upper end of right femur, initial encounter for closed fracture | Closed fracture of epiphysis (separation) (upper) of neck of femur |
| S79012A | 82001 | Salter-Harris Type I physeal fracture of upper end of left femur, initial encounter for closed fracture | Closed fracture of epiphysis (separation) (upper) of neck of femur |
| S79019A | 82001 | Salter-Harris Type I physeal fracture of upper end of unspecified femur, initial encounter for closed fracture | Closed fracture of epiphysis (separation) (upper) of neck of femur |
| S79091A | 82001 | Other physeal fracture of upper end of right femur, initial encounter for closed fracture | Closed fracture of epiphysis (separation) (upper) of neck of femur |
| S79092A | 82001 | Other physeal fracture of upper end of left femur, initial encounter for closed fracture | Closed fracture of epiphysis (separation) (upper) of neck of femur |
| S79099A | 82001 | Other physeal fracture of upper end of unspecified femur, initial encounter for closed fracture | Closed fracture of epiphysis (separation) (upper) of neck of femur |
| S72031A | 82002 | Displaced midcervical fracture of right femur, initial encounter for closed fracture | Closed fracture of midcervical section of neck of femur |
| S72032A | 82002 | Displaced midcervical fracture of left femur, initial encounter for closed fracture | Closed fracture of midcervical section of neck of femur |
| S72034A | 82002 | Nondisplaced midcervical fracture of right femur, initial encounter for closed fracture | Closed fracture of midcervical section of neck of femur |
| S72035A | 82002 | Nondisplaced midcervical fracture of left femur, initial encounter for closed fracture | Closed fracture of midcervical section of neck of femur |
| S72041A | 82003 | Displaced fracture of base of neck of right femur, initial encounter for closed fracture | Closed fracture of base of neck of femur |
| S72042A | 82003 | Displaced fracture of base of neck of left femur, initial encounter for closed fracture | Closed fracture of base of neck of femur |
| S72044A | 82003 | Nondisplaced fracture of base of neck of right femur, initial encounter for closed fracture | Closed fracture of base of neck of femur |
| S72045A | 82003 | Nondisplaced fracture of base of neck of left femur, initial encounter for closed fracture | Closed fracture of base of neck of femur |
| S72051A | 82009 | Unspecified fracture of head of right femur, initial encounter for closed fracture | Other closed transcervical fracture of neck of femur |
| S72052A | 82009 | Unspecified fracture of head of left femur, initial encounter for closed fracture | Other closed transcervical fracture of neck of femur |
| S72059A | 82009 | Unspecified fracture of head of unspecified femur, initial encounter for closed fracture | Other closed transcervical fracture of neck of femur |
| S72061A | 82009 | Displaced articular fracture of head of right femur, initial encounter for closed fracture | Other closed transcervical fracture of neck of femur |
| S72062A | 82009 | Displaced articular fracture of head of left femur, initial encounter for closed fracture | Other closed transcervical fracture of neck of femur |
| S72063A | 82009 | Displaced articular fracture of head of unspecified femur, initial encounter for closed fracture | Other closed transcervical fracture of neck of femur |
| S72064A | 82009 | Nondisplaced articular fracture of head of right femur, initial encounter for closed fracture | Other closed transcervical fracture of neck of femur |
| S72065A | 82009 | Nondisplaced articular fracture of head of left femur, initial encounter for closed fracture | Other closed transcervical fracture of neck of femur |
| S72066A | 82009 | Nondisplaced articular fracture of head of unspecified femur, initial encounter for closed fracture | Other closed transcervical fracture of neck of femur |
| S72091A | 82009 | Other fracture of head and neck of right femur, initial encounter for closed fracture | Other closed transcervical fracture of neck of femur |
| S72092A | 82009 | Other fracture of head and neck of left femur, initial encounter for closed fracture | Other closed transcervical fracture of neck of femur |
| S72011B | 82010 | Unspecified intracapsular fracture of right femur, initial encounter for open fracture type I or II | Open fracture of intracapsular section of neck of femur, unspecified |
| S72011C | 82010 | Unspecified intracapsular fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of intracapsular section of neck of femur, unspecified |
| S72012B | 82010 | Unspecified intracapsular fracture of left femur, initial encounter for open fracture type I or II | Open fracture of intracapsular section of neck of femur, unspecified |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|--|
| S72012C | 82010 | Unspecified intracapsular fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of intracapsular section of neck of femur, unspecified |
| S72021B | 82011 | Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type I or II | Open fracture of epiphysis (separation) (upper) of neck of femur |
| S72021C | 82011 | Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of epiphysis (separation) (upper) of neck of femur |
| S72022B | 82011 | Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type I or II | Open fracture of epiphysis (separation) (upper) of neck of femur |
| S72022C | 82011 | Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of epiphysis (separation) (upper) of neck of femur |
| S72024B | 82011 | Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type I or II | Open fracture of epiphysis (separation) (upper) of neck of femur |
| S72024C | 82011 | Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of epiphysis (separation) (upper) of neck of femur |
| S72025B | 82011 | Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type I or II | Open fracture of epiphysis (separation) (upper) of neck of femur |
| S72025C | 82011 | Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of epiphysis (separation) (upper) of neck of femur |
| S72031B | 82012 | Displaced midcervical fracture of right femur, initial encounter for open fracture type I or II | Open fracture of midcervical section of neck of femur |
| S72031C | 82012 | Displaced midcervical fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of midcervical section of neck of femur |
| S72032B | 82012 | Displaced midcervical fracture of left femur, initial encounter for open fracture type I or II | Open fracture of midcervical section of neck of femur |
| S72032C | 82012 | Displaced midcervical fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of midcervical section of neck of femur |
| S72034B | 82012 | Nondisplaced midcervical fracture of right femur, initial encounter for open fracture type I or II | Open fracture of midcervical section of neck of femur |
| S72034C | 82012 | Nondisplaced midcervical fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of midcervical section of neck of femur |
| S72035B | 82012 | Nondisplaced midcervical fracture of left femur, initial encounter for open fracture type I or II | Open fracture of midcervical section of neck of femur |
| S72035C | 82012 | Nondisplaced midcervical fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of midcervical section of neck of femur |
| S72041B | 82013 | Displaced fracture of base of neck of right femur, initial encounter for open fracture type I or II | Open fracture of base of neck of femur |
| S72041C | 82013 | Displaced fracture of base of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of base of neck of femur |
| S72042B | 82013 | Displaced fracture of base of neck of left femur, initial encounter for open fracture type I or II | Open fracture of base of neck of femur |
| S72042C | 82013 | Displaced fracture of base of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of base of neck of femur |
| S72044B | 82013 | Nondisplaced fracture of base of neck of right femur, initial encounter for open fracture type I or II | Open fracture of base of neck of femur |
| S72044C | 82013 | Nondisplaced fracture of base of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of base of neck of femur |
| S72045B | 82013 | Nondisplaced fracture of base of neck of left femur, initial encounter for open fracture type I or II | Open fracture of base of neck of femur |
| S72045C | 82013 | Nondisplaced fracture of base of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of base of neck of femur |
| S72051B | 82019 | Unspecified fracture of head of right femur, initial encounter for open fracture type I or II | Other open transcervical fracture of neck of femur |
| S72051C | 82019 | Unspecified fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other open transcervical fracture of neck of femur |
| S72052B | 82019 | Unspecified fracture of head of left femur, initial encounter for open fracture type I or II | Other open transcervical fracture of neck of femur |
| S72052C | 82019 | Unspecified fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other open transcervical fracture of neck of femur |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|---|
| S72144B | 82031 | Nondisplaced intertrochanteric fracture of right femur, initial encounter for open fracture type I or II | Open fracture of intertrochanteric section of neck of femur |
| S72144C | 82031 | Nondisplaced intertrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of intertrochanteric section of neck of femur |
| S72145B | 82031 | Nondisplaced intertrochanteric fracture of left femur, initial encounter for open fracture type I or II | Open fracture of intertrochanteric section of neck of femur |
| S72145C | 82031 | Nondisplaced intertrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of intertrochanteric section of neck of femur |
| S7221XB | 82032 | Displaced subtrochanteric fracture of right femur, initial encounter for open fracture type I or II | Open fracture of subtrochanteric section of neck of femur |
| S7221XC | 82032 | Displaced subtrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of subtrochanteric section of neck of femur |
| S7222XB | 82032 | Displaced subtrochanteric fracture of left femur, initial encounter for open fracture type I or II | Open fracture of subtrochanteric section of neck of femur |
| S7222XC | 82032 | Displaced subtrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of subtrochanteric section of neck of femur |
| S7224XB | 82032 | Nondisplaced subtrochanteric fracture of right femur, initial encounter for open fracture type I or II | Open fracture of subtrochanteric section of neck of femur |
| S7224XC | 82032 | Nondisplaced subtrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of subtrochanteric section of neck of femur |
| S7225XB | 82032 | Nondisplaced subtrochanteric fracture of left femur, initial encounter for open fracture type I or II | Open fracture of subtrochanteric section of neck of femur |
| S7225XC | 82032 | Nondisplaced subtrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of subtrochanteric section of neck of femur |
| S72001A | 8208 | Fracture of unspecified part of neck of right femur, initial encounter for closed fracture | Closed fracture of unspecified part of neck of femur |
| S72002A | 8208 | Fracture of unspecified part of neck of left femur, initial encounter for closed fracture | Closed fracture of unspecified part of neck of femur |
| S72001B | 8209 | Fracture of unspecified part of neck of right femur, initial encounter for open fracture type I or II | Open fracture of unspecified part of neck of femur |
| S72001C | 8209 | Fracture of unspecified part of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of unspecified part of neck of femur |
| S72002B | 8209 | Fracture of unspecified part of neck of left femur, initial encounter for open fracture type I or II | Open fracture of unspecified part of neck of femur |
| S72002C | 8209 | Fracture of unspecified part of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of unspecified part of neck of femur |
| S728X1A | 82100 | Other fracture of right femur, initial encounter for closed fracture | Closed fracture of unspecified part of femur |
| S728X2A | 82100 | Other fracture of left femur, initial encounter for closed fracture | Closed fracture of unspecified part of femur |
| S728X9A | 82100 | Other fracture of unspecified femur, initial encounter for closed fracture | Closed fracture of unspecified part of femur |
| S7291XA | 82100 | Unspecified fracture of right femur, initial encounter for closed fracture | Closed fracture of unspecified part of femur |
| S7292XA | 82100 | Unspecified fracture of left femur, initial encounter for closed fracture | Closed fracture of unspecified part of femur |
| S72301A | 82101 | Unspecified fracture of shaft of right femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72302A | 82101 | Unspecified fracture of shaft of left femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72321A | 82101 | Displaced transverse fracture of shaft of right femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72322A | 82101 | Displaced transverse fracture of shaft of left femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72323A | 82101 | Displaced transverse fracture of shaft of unspecified femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72324A | 82101 | Nondisplaced transverse fracture of shaft of right femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72325A | 82101 | Nondisplaced transverse fracture of shaft of left femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72326A | 82101 | Nondisplaced transverse fracture of shaft of unspecified femur, initial encounter for closed fracture | Closed fracture of shaft of femur |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|--|
| S72331A | 82101 | Displaced oblique fracture of shaft of right femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72332A | 82101 | Displaced oblique fracture of shaft of left femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72333A | 82101 | Displaced oblique fracture of shaft of unspecified femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72334A | 82101 | Nondisplaced oblique fracture of shaft of right femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72335A | 82101 | Nondisplaced oblique fracture of shaft of left femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72336A | 82101 | Nondisplaced oblique fracture of shaft of unspecified femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72341A | 82101 | Displaced spiral fracture of shaft of right femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72342A | 82101 | Displaced spiral fracture of shaft of left femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72343A | 82101 | Displaced spiral fracture of shaft of unspecified femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72344A | 82101 | Nondisplaced spiral fracture of shaft of right femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72345A | 82101 | Nondisplaced spiral fracture of shaft of left femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72346A | 82101 | Nondisplaced spiral fracture of shaft of unspecified femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72351A | 82101 | Displaced comminuted fracture of shaft of right femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72352A | 82101 | Displaced comminuted fracture of shaft of left femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72353A | 82101 | Displaced comminuted fracture of shaft of unspecified femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72354A | 82101 | Nondisplaced comminuted fracture of shaft of right femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72355A | 82101 | Nondisplaced comminuted fracture of shaft of left femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72356A | 82101 | Nondisplaced comminuted fracture of shaft of unspecified femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72361A | 82101 | Displaced segmental fracture of shaft of right femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72362A | 82101 | Displaced segmental fracture of shaft of left femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72363A | 82101 | Displaced segmental fracture of shaft of unspecified femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72364A | 82101 | Nondisplaced segmental fracture of shaft of right femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72365A | 82101 | Nondisplaced segmental fracture of shaft of left femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72366A | 82101 | Nondisplaced segmental fracture of shaft of unspecified femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72391A | 82101 | Other fracture of shaft of right femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72392A | 82101 | Other fracture of shaft of left femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S72399A | 82101 | Other fracture of shaft of unspecified femur, initial encounter for closed fracture | Closed fracture of shaft of femur |
| S728X1B | 82110 | Other fracture of right femur, initial encounter for open fracture type I or II | Open fracture of unspecified part of femur |
| S728X1C | 82110 | Other fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of unspecified part of femur |
| S728X2B | 82110 | Other fracture of left femur, initial encounter for open fracture type I or II | Open fracture of unspecified part of femur |
| S728X2C | 82110 | Other fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of unspecified part of femur |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|---|
| S72362B | 82111 | Displaced segmental fracture of shaft of left femur, initial encounter for open fracture type I or II | Open fracture of shaft of femur |
| S72362C | 82111 | Displaced segmental fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of femur |
| S72363B | 82111 | Displaced segmental fracture of shaft of unspecified femur, initial encounter for open fracture type I or II | Open fracture of shaft of femur |
| S72363C | 82111 | Displaced segmental fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of femur |
| S72364B | 82111 | Nondisplaced segmental fracture of shaft of right femur, initial encounter for open fracture type I or II | Open fracture of shaft of femur |
| S72364C | 82111 | Nondisplaced segmental fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of femur |
| S72365B | 82111 | Nondisplaced segmental fracture of shaft of left femur, initial encounter for open fracture type I or II | Open fracture of shaft of femur |
| S72365C | 82111 | Nondisplaced segmental fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of femur |
| S72366B | 82111 | Nondisplaced segmental fracture of shaft of unspecified femur, initial encounter for open fracture type I or II | Open fracture of shaft of femur |
| S72366C | 82111 | Nondisplaced segmental fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of femur |
| S72391B | 82111 | Other fracture of shaft of right femur, initial encounter for open fracture type I or II | Open fracture of shaft of femur |
| S72391C | 82111 | Other fracture of shaft of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of femur |
| S72392B | 82111 | Other fracture of shaft of left femur, initial encounter for open fracture type I or II | Open fracture of shaft of femur |
| S72392C | 82111 | Other fracture of shaft of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of femur |
| S72399B | 82111 | Other fracture of shaft of unspecified femur, initial encounter for open fracture type I or II | Open fracture of shaft of femur |
| S72399C | 82111 | Other fracture of shaft of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of femur |
| S72401A | 82120 | Unspecified fracture of lower end of right femur, initial encounter for closed fracture | Closed fracture of lower end of femur, unspecified part |
| S72402A | 82120 | Unspecified fracture of lower end of left femur, initial encounter for closed fracture | Closed fracture of lower end of femur, unspecified part |
| S72411A | 82121 | Displaced unspecified condyle fracture of lower end of right femur, initial encounter for closed fracture | Closed fracture of condyle, femoral |
| S72412A | 82121 | Displaced unspecified condyle fracture of lower end of left femur, initial encounter for closed fracture | Closed fracture of condyle, femoral |
| S72414A | 82121 | Nondisplaced unspecified condyle fracture of lower end of right femur, initial encounter for closed fracture | Closed fracture of condyle, femoral |
| S72415A | 82121 | Nondisplaced unspecified condyle fracture of lower end of left femur, initial encounter for closed fracture | Closed fracture of condyle, femoral |
| S72421A | 82121 | Displaced fracture of lateral condyle of right femur, initial encounter for closed fracture | Closed fracture of condyle, femoral |
| S72422A | 82121 | Displaced fracture of lateral condyle of left femur, initial encounter for closed fracture | Closed fracture of condyle, femoral |
| S72423A | 82121 | Displaced fracture of lateral condyle of unspecified femur, initial encounter for closed fracture | Closed fracture of condyle, femoral |
| S72424A | 82121 | Nondisplaced fracture of lateral condyle of right femur, initial encounter for closed fracture | Closed fracture of condyle, femoral |
| S72425A | 82121 | Nondisplaced fracture of lateral condyle of left femur, initial encounter for closed fracture | Closed fracture of condyle, femoral |
| S72426A | 82121 | Nondisplaced fracture of lateral condyle of unspecified femur, initial encounter for closed fracture | Closed fracture of condyle, femoral |
| S72431A | 82121 | Displaced fracture of medial condyle of right femur, initial encounter for closed fracture | Closed fracture of condyle, femoral |
| S72432A | 82121 | Displaced fracture of medial condyle of left femur, initial encounter for closed fracture | Closed fracture of condyle, femoral |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|---|
| S72455A | 82123 | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for closed fracture | Closed supracondylar fracture of femur |
| S72461A | 82123 | Displaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for closed fracture | Closed supracondylar fracture of femur |
| S72462A | 82123 | Displaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for closed fracture | Closed supracondylar fracture of femur |
| S72463A | 82123 | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for closed fracture | Closed supracondylar fracture of femur |
| S72464A | 82123 | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for closed fracture | Closed supracondylar fracture of femur |
| S72465A | 82123 | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for closed fracture | Closed supracondylar fracture of femur |
| S72466A | 82123 | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for closed fracture | Closed supracondylar fracture of femur |
| S72471A | 82129 | Torus fracture of lower end of right femur, initial encounter for closed fracture | Other closed fracture of lower end of femur |
| S72472A | 82129 | Torus fracture of lower end of left femur, initial encounter for closed fracture | Other closed fracture of lower end of femur |
| S72479A | 82129 | Torus fracture of lower end of unspecified femur, initial encounter for closed fracture | Other closed fracture of lower end of femur |
| S72491A | 82129 | Other fracture of lower end of right femur, initial encounter for closed fracture | Other closed fracture of lower end of femur |
| S72492A | 82129 | Other fracture of lower end of left femur, initial encounter for closed fracture | Other closed fracture of lower end of femur |
| S72401B | 82130 | Unspecified fracture of lower end of right femur, initial encounter for open fracture type I or II | Open fracture of lower end of femur, unspecified part |
| S72401C | 82130 | Unspecified fracture of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of lower end of femur, unspecified part |
| S72402B | 82130 | Unspecified fracture of lower end of left femur, initial encounter for open fracture type I or II | Open fracture of lower end of femur, unspecified part |
| S72402C | 82130 | Unspecified fracture of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of lower end of femur, unspecified part |
| S72411B | 82131 | Displaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type I or II | Open fracture of condyle, femoral |
| S72411C | 82131 | Displaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of condyle, femoral |
| S72412B | 82131 | Displaced unspecified condyle fracture of lower end of left femur, initial encounter for open fracture type I or II | Open fracture of condyle, femoral |
| S72412C | 82131 | Displaced unspecified condyle fracture of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of condyle, femoral |
| S72414B | 82131 | Nondisplaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type I or II | Open fracture of condyle, femoral |
| S72414C | 82131 | Nondisplaced unspecified condyle fracture of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of condyle, femoral |
| S72415B | 82131 | Nondisplaced unspecified condyle fracture of lower end of left femur, initial encounter for open fracture type I or II | Open fracture of condyle, femoral |
| S72415C | 82131 | Nondisplaced unspecified condyle fracture of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of condyle, femoral |
| S72421B | 82131 | Displaced fracture of lateral condyle of right femur, initial encounter for open fracture type I or II | Open fracture of condyle, femoral |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|---|
| S72421C | 82131 | Displaced fracture of lateral condyle of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of condyle, femoral |
| S72422B | 82131 | Displaced fracture of lateral condyle of left femur, initial encounter for open fracture type I or II | Open fracture of condyle, femoral |
| S72422C | 82131 | Displaced fracture of lateral condyle of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of condyle, femoral |
| S72423B | 82131 | Displaced fracture of lateral condyle of unspecified femur, initial encounter for open fracture type I or II | Open fracture of condyle, femoral |
| S72423C | 82131 | Displaced fracture of lateral condyle of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of condyle, femoral |
| S72424B | 82131 | Nondisplaced fracture of lateral condyle of right femur, initial encounter for open fracture type I or II | Open fracture of condyle, femoral |
| S72424C | 82131 | Nondisplaced fracture of lateral condyle of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of condyle, femoral |
| S72425B | 82131 | Nondisplaced fracture of lateral condyle of left femur, initial encounter for open fracture type I or II | Open fracture of condyle, femoral |
| S72425C | 82131 | Nondisplaced fracture of lateral condyle of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of condyle, femoral |
| S72426B | 82131 | Nondisplaced fracture of lateral condyle of unspecified femur, initial encounter for open fracture type I or II | Open fracture of condyle, femoral |
| S72426C | 82131 | Nondisplaced fracture of lateral condyle of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of condyle, femoral |
| S72431B | 82131 | Displaced fracture of medial condyle of right femur, initial encounter for open fracture type I or II | Open fracture of condyle, femoral |
| S72431C | 82131 | Displaced fracture of medial condyle of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of condyle, femoral |
| S72432B | 82131 | Displaced fracture of medial condyle of left femur, initial encounter for open fracture type I or II | Open fracture of condyle, femoral |
| S72432C | 82131 | Displaced fracture of medial condyle of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of condyle, femoral |
| S72433B | 82131 | Displaced fracture of medial condyle of unspecified femur, initial encounter for open fracture type I or II | Open fracture of condyle, femoral |
| S72433C | 82131 | Displaced fracture of medial condyle of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of condyle, femoral |
| S72434B | 82131 | Nondisplaced fracture of medial condyle of right femur, initial encounter for open fracture type I or II | Open fracture of condyle, femoral |
| S72434C | 82131 | Nondisplaced fracture of medial condyle of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of condyle, femoral |
| S72435B | 82131 | Nondisplaced fracture of medial condyle of left femur, initial encounter for open fracture type I or II | Open fracture of condyle, femoral |
| S72435C | 82131 | Nondisplaced fracture of medial condyle of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of condyle, femoral |
| S72436B | 82131 | Nondisplaced fracture of medial condyle of unspecified femur, initial encounter for open fracture type I or II | Open fracture of condyle, femoral |
| S72436C | 82131 | Nondisplaced fracture of medial condyle of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of condyle, femoral |
| S72441B | 82132 | Displaced fracture of lower epiphysis (separation) of right femur, initial encounter for open fracture type I or II | Open fracture of epiphysis. Lower (separation) of femur |
| S72441C | 82132 | Displaced fracture of lower epiphysis (separation) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of epiphysis. Lower (separation) of femur |
| S72442B | 82132 | Displaced fracture of lower epiphysis (separation) of left femur, initial encounter for open fracture type I or II | Open fracture of epiphysis. Lower (separation) of femur |
| S72442C | 82132 | Displaced fracture of lower epiphysis (separation) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of epiphysis. Lower (separation) of femur |
| S72444B | 82132 | Nondisplaced fracture of lower epiphysis (separation) of right femur, initial encounter for open fracture type I or II | Open fracture of epiphysis. Lower (separation) of femur |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|---|
| S72444C | 82132 | Nondisplaced fracture of lower epiphysis (separation) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of epiphysis. Lower (separation) of femur |
| S72445B | 82132 | Nondisplaced fracture of lower epiphysis (separation) of left femur, initial encounter for open fracture type I or II | Open fracture of epiphysis. Lower (separation) of femur |
| S72445C | 82132 | Nondisplaced fracture of lower epiphysis (separation) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of epiphysis. Lower (separation) of femur |
| S72451B | 82133 | Displaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for open fracture type I or II | Open supracondylar fracture of femur |
| S72451C | 82133 | Displaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open supracondylar fracture of femur |
| S72452B | 82133 | Displaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for open fracture type I or II | Open supracondylar fracture of femur |
| S72452C | 82133 | Displaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open supracondylar fracture of femur |
| S72454B | 82133 | Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for open fracture type I or II | Open supracondylar fracture of femur |
| S72454C | 82133 | Nondisplaced supracondylar fracture without intracondylar extension of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open supracondylar fracture of femur |
| S72455B | 82133 | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for open fracture type I or II | Open supracondylar fracture of femur |
| S72455C | 82133 | Nondisplaced supracondylar fracture without intracondylar extension of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open supracondylar fracture of femur |
| S72461B | 82133 | Displaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type I or II | Open supracondylar fracture of femur |
| S72461C | 82133 | Displaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open supracondylar fracture of femur |
| S72462B | 82133 | Displaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for open fracture type I or II | Open supracondylar fracture of femur |
| S72462C | 82133 | Displaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open supracondylar fracture of femur |
| S72463B | 82133 | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type I or II | Open supracondylar fracture of femur |
| S72463C | 82133 | Displaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open supracondylar fracture of femur |
| S72464B | 82133 | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type I or II | Open supracondylar fracture of femur |
| S72464C | 82133 | Nondisplaced supracondylar fracture with intracondylar extension of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open supracondylar fracture of femur |
| S72465B | 82133 | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for open fracture type I or II | Open supracondylar fracture of femur |
| S72465C | 82133 | Nondisplaced supracondylar fracture with intracondylar extension of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open supracondylar fracture of femur |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|---|
| S72466B | 82133 | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type I or II | Open supracondylar fracture of femur |
| S72466C | 82133 | Nondisplaced supracondylar fracture with intracondylar extension of lower end of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open supracondylar fracture of femur |
| S72491B | 82139 | Other fracture of lower end of right femur, initial encounter for open fracture type I or II | Other open fracture of lower end of femur |
| S72491C | 82139 | Other fracture of lower end of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other open fracture of lower end of femur |
| S72492B | 82139 | Other fracture of lower end of left femur, initial encounter for open fracture type I or II | Other open fracture of lower end of femur |
| S72492C | 82139 | Other fracture of lower end of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other open fracture of lower end of femur |
| S82001A | 8220 | Unspecified fracture of right patella, initial encounter for closed fracture | Closed fracture of patella |
| S82002A | 8220 | Unspecified fracture of left patella, initial encounter for closed fracture | Closed fracture of patella |
| S82011A | 8220 | Displaced osteochondral fracture of right patella, initial encounter for closed fracture | Closed fracture of patella |
| S82012A | 8220 | Displaced osteochondral fracture of left patella, initial encounter for closed fracture | Closed fracture of patella |
| S82013A | 8220 | Displaced osteochondral fracture of unspecified patella, initial encounter for closed fracture | Closed fracture of patella |
| S82014A | 8220 | Nondisplaced osteochondral fracture of right patella, initial encounter for closed fracture | Closed fracture of patella |
| S82015A | 8220 | Nondisplaced osteochondral fracture of left patella, initial encounter for closed fracture | Closed fracture of patella |
| S82016A | 8220 | Nondisplaced osteochondral fracture of unspecified patella, initial encounter for closed fracture | Closed fracture of patella |
| S82021A | 8220 | Displaced longitudinal fracture of right patella, initial encounter for closed fracture | Closed fracture of patella |
| S82022A | 8220 | Displaced longitudinal fracture of left patella, initial encounter for closed fracture | Closed fracture of patella |
| S82023A | 8220 | Displaced longitudinal fracture of unspecified patella, initial encounter for closed fracture | Closed fracture of patella |
| S82024A | 8220 | Nondisplaced longitudinal fracture of right patella, initial encounter for closed fracture | Closed fracture of patella |
| S82025A | 8220 | Nondisplaced longitudinal fracture of left patella, initial encounter for closed fracture | Closed fracture of patella |
| S82026A | 8220 | Nondisplaced longitudinal fracture of unspecified patella, initial encounter for closed fracture | Closed fracture of patella |
| S82031A | 8220 | Displaced transverse fracture of right patella, initial encounter for closed fracture | Closed fracture of patella |
| S82032A | 8220 | Displaced transverse fracture of left patella, initial encounter for closed fracture | Closed fracture of patella |
| S82033A | 8220 | Displaced transverse fracture of unspecified patella, initial encounter for closed fracture | Closed fracture of patella |
| S82034A | 8220 | Nondisplaced transverse fracture of right patella, initial encounter for closed fracture | Closed fracture of patella |
| S82035A | 8220 | Nondisplaced transverse fracture of left patella, initial encounter for closed fracture | Closed fracture of patella |
| S82036A | 8220 | Nondisplaced transverse fracture of unspecified patella, initial encounter for closed fracture | Closed fracture of patella |
| S82041A | 8220 | Displaced comminuted fracture of right patella, initial encounter for closed fracture | Closed fracture of patella |
| S82042A | 8220 | Displaced comminuted fracture of left patella, initial encounter for closed fracture | Closed fracture of patella |
| S82043A | 8220 | Displaced comminuted fracture of unspecified patella, initial encounter for closed fracture | Closed fracture of patella |
| S82044A | 8220 | Nondisplaced comminuted fracture of right patella, initial encounter for closed fracture | Closed fracture of patella |

Appendix A
Frailty markers

| | | | |
|---------|------|--|----------------------------|
| S82045A | 8220 | Nondisplaced comminuted fracture of left patella, initial encounter for closed fracture | Closed fracture of patella |
| S82046A | 8220 | Nondisplaced comminuted fracture of unspecified patella, initial encounter for closed fracture | Closed fracture of patella |
| S82091A | 8220 | Other fracture of right patella, initial encounter for closed fracture | Closed fracture of patella |
| S82092A | 8220 | Other fracture of left patella, initial encounter for closed fracture | Closed fracture of patella |
| S82099A | 8220 | Other fracture of unspecified patella, initial encounter for closed fracture | Closed fracture of patella |
| S82001B | 8221 | Unspecified fracture of right patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82001C | 8221 | Unspecified fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82002B | 8221 | Unspecified fracture of left patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82002C | 8221 | Unspecified fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82011B | 8221 | Displaced osteochondral fracture of right patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82011C | 8221 | Displaced osteochondral fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82012B | 8221 | Displaced osteochondral fracture of left patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82012C | 8221 | Displaced osteochondral fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82013B | 8221 | Displaced osteochondral fracture of unspecified patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82013C | 8221 | Displaced osteochondral fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82014B | 8221 | Nondisplaced osteochondral fracture of right patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82014C | 8221 | Nondisplaced osteochondral fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82015B | 8221 | Nondisplaced osteochondral fracture of left patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82015C | 8221 | Nondisplaced osteochondral fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82016B | 8221 | Nondisplaced osteochondral fracture of unspecified patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82016C | 8221 | Nondisplaced osteochondral fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82021B | 8221 | Displaced longitudinal fracture of right patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82021C | 8221 | Displaced longitudinal fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82022B | 8221 | Displaced longitudinal fracture of left patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82022C | 8221 | Displaced longitudinal fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82023B | 8221 | Displaced longitudinal fracture of unspecified patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82023C | 8221 | Displaced longitudinal fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82024B | 8221 | Nondisplaced longitudinal fracture of right patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82024C | 8221 | Nondisplaced longitudinal fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82025B | 8221 | Nondisplaced longitudinal fracture of left patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82025C | 8221 | Nondisplaced longitudinal fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |

Appendix A
Frailty markers

| | | | |
|---------|------|---|--------------------------|
| S82026B | 8221 | Nondisplaced longitudinal fracture of unspecified patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82026C | 8221 | Nondisplaced longitudinal fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82031B | 8221 | Displaced transverse fracture of right patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82031C | 8221 | Displaced transverse fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82032B | 8221 | Displaced transverse fracture of left patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82032C | 8221 | Displaced transverse fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82033B | 8221 | Displaced transverse fracture of unspecified patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82033C | 8221 | Displaced transverse fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82034B | 8221 | Nondisplaced transverse fracture of right patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82034C | 8221 | Nondisplaced transverse fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82035B | 8221 | Nondisplaced transverse fracture of left patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82035C | 8221 | Nondisplaced transverse fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82036B | 8221 | Nondisplaced transverse fracture of unspecified patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82036C | 8221 | Nondisplaced transverse fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82041B | 8221 | Displaced comminuted fracture of right patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82041C | 8221 | Displaced comminuted fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82042B | 8221 | Displaced comminuted fracture of left patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82042C | 8221 | Displaced comminuted fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82043B | 8221 | Displaced comminuted fracture of unspecified patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82043C | 8221 | Displaced comminuted fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82044B | 8221 | Nondisplaced comminuted fracture of right patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82044C | 8221 | Nondisplaced comminuted fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82045B | 8221 | Nondisplaced comminuted fracture of left patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82045C | 8221 | Nondisplaced comminuted fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82046B | 8221 | Nondisplaced comminuted fracture of unspecified patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82046C | 8221 | Nondisplaced comminuted fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82091B | 8221 | Other fracture of right patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82091C | 8221 | Other fracture of right patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82092B | 8221 | Other fracture of left patella, initial encounter for open fracture type I or II | Open fracture of patella |
| S82092C | 8221 | Other fracture of left patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82099B | 8221 | Other fracture of unspecified patella, initial encounter for open fracture type I or II | Open fracture of patella |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|---|
| S82099C | 8221 | Other fracture of unspecified patella, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of patella |
| S82101A | 82300 | Unspecified fracture of upper end of right tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82102A | 82300 | Unspecified fracture of upper end of left tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82111A | 82300 | Displaced fracture of right tibial spine, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82112A | 82300 | Displaced fracture of left tibial spine, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82113A | 82300 | Displaced fracture of unspecified tibial spine, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82114A | 82300 | Nondisplaced fracture of right tibial spine, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82115A | 82300 | Nondisplaced fracture of left tibial spine, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82116A | 82300 | Nondisplaced fracture of unspecified tibial spine, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82121A | 82300 | Displaced fracture of lateral condyle of right tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82122A | 82300 | Displaced fracture of lateral condyle of left tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82123A | 82300 | Displaced fracture of lateral condyle of unspecified tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82124A | 82300 | Nondisplaced fracture of lateral condyle of right tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82125A | 82300 | Nondisplaced fracture of lateral condyle of left tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82126A | 82300 | Nondisplaced fracture of lateral condyle of unspecified tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82131A | 82300 | Displaced fracture of medial condyle of right tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82132A | 82300 | Displaced fracture of medial condyle of left tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82133A | 82300 | Displaced fracture of medial condyle of unspecified tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82134A | 82300 | Nondisplaced fracture of medial condyle of right tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82135A | 82300 | Nondisplaced fracture of medial condyle of left tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82136A | 82300 | Nondisplaced fracture of medial condyle of unspecified tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82141A | 82300 | Displaced bicondylar fracture of right tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82142A | 82300 | Displaced bicondylar fracture of left tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82143A | 82300 | Displaced bicondylar fracture of unspecified tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82144A | 82300 | Nondisplaced bicondylar fracture of right tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82145A | 82300 | Nondisplaced bicondylar fracture of left tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82146A | 82300 | Nondisplaced bicondylar fracture of unspecified tibia, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82151A | 82300 | Displaced fracture of right tibial tuberosity, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82152A | 82300 | Displaced fracture of left tibial tuberosity, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82153A | 82300 | Displaced fracture of unspecified tibial tuberosity, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |
| S82154A | 82300 | Nondisplaced fracture of right tibial tuberosity, initial encounter for closed fracture | Closed fracture of upper end of tibia alone |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|---|
| S89221A | 82301 | Salter-Harris Type II physeal fracture of upper end of right fibula, initial encounter for closed fracture | Closed fracture of upper end of fibula alone |
| S89222A | 82301 | Salter-Harris Type II physeal fracture of upper end of left fibula, initial encounter for closed fracture | Closed fracture of upper end of fibula alone |
| S89229A | 82301 | Salter-Harris Type II physeal fracture of upper end of unspecified fibula, initial encounter for closed fracture | Closed fracture of upper end of fibula alone |
| S89291A | 82301 | Other physeal fracture of upper end of right fibula, initial encounter for closed fracture | Closed fracture of upper end of fibula alone |
| S89292A | 82301 | Other physeal fracture of upper end of left fibula, initial encounter for closed fracture | Closed fracture of upper end of fibula alone |
| S89299A | 82301 | Other physeal fracture of upper end of unspecified fibula, initial encounter for closed fracture | Closed fracture of upper end of fibula alone |
| S82101A | 82302 | Unspecified fracture of upper end of right tibia, initial encounter for closed fracture | Closed fracture of upper end of fibula with tibia |
| S82102A | 82302 | Unspecified fracture of upper end of left tibia, initial encounter for closed fracture | Closed fracture of upper end of fibula with tibia |
| S82831A | 82302 | Other fracture of upper and lower end of right fibula, initial encounter for closed fracture | Closed fracture of upper end of fibula with tibia |
| S82832A | 82302 | Other fracture of upper and lower end of left fibula, initial encounter for closed fracture | Closed fracture of upper end of fibula with tibia |
| S82101B | 82310 | Unspecified fracture of upper end of right tibia, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82101C | 82310 | Unspecified fracture of upper end of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82102B | 82310 | Unspecified fracture of upper end of left tibia, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82102C | 82310 | Unspecified fracture of upper end of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82111B | 82310 | Displaced fracture of right tibial spine, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82111C | 82310 | Displaced fracture of right tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82112B | 82310 | Displaced fracture of left tibial spine, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82112C | 82310 | Displaced fracture of left tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82113B | 82310 | Displaced fracture of unspecified tibial spine, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82113C | 82310 | Displaced fracture of unspecified tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82114B | 82310 | Nondisplaced fracture of right tibial spine, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82114C | 82310 | Nondisplaced fracture of right tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82115B | 82310 | Nondisplaced fracture of left tibial spine, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82115C | 82310 | Nondisplaced fracture of left tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82116B | 82310 | Nondisplaced fracture of unspecified tibial spine, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82116C | 82310 | Nondisplaced fracture of unspecified tibial spine, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82121B | 82310 | Displaced fracture of lateral condyle of right tibia, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82121C | 82310 | Displaced fracture of lateral condyle of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82122B | 82310 | Displaced fracture of lateral condyle of left tibia, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82122C | 82310 | Displaced fracture of lateral condyle of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82123B | 82310 | Displaced fracture of lateral condyle of unspecified tibia, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|---|
| S82146C | 82310 | Nondisplaced bicondylar fracture of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82151B | 82310 | Displaced fracture of right tibial tuberosity, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82151C | 82310 | Displaced fracture of right tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82152B | 82310 | Displaced fracture of left tibial tuberosity, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82152C | 82310 | Displaced fracture of left tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82153B | 82310 | Displaced fracture of unspecified tibial tuberosity, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82153C | 82310 | Displaced fracture of unspecified tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82154B | 82310 | Nondisplaced fracture of right tibial tuberosity, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82154C | 82310 | Nondisplaced fracture of right tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82155B | 82310 | Nondisplaced fracture of left tibial tuberosity, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82155C | 82310 | Nondisplaced fracture of left tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82156B | 82310 | Nondisplaced fracture of unspecified tibial tuberosity, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82156C | 82310 | Nondisplaced fracture of unspecified tibial tuberosity, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82191B | 82310 | Other fracture of upper end of right tibia, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82191C | 82310 | Other fracture of upper end of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82192B | 82310 | Other fracture of upper end of left tibia, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82192C | 82310 | Other fracture of upper end of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82199B | 82310 | Other fracture of upper end of unspecified tibia, initial encounter for open fracture type I or II | Open fracture of upper end of tibia alone |
| S82199C | 82310 | Other fracture of upper end of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of tibia alone |
| S82831B | 82311 | Other fracture of upper and lower end of right fibula, initial encounter for open fracture type I or II | Open fracture of upper end of fibula alone |
| S82831C | 82311 | Other fracture of upper and lower end of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of fibula alone |
| S82832B | 82311 | Other fracture of upper and lower end of left fibula, initial encounter for open fracture type I or II | Open fracture of upper end of fibula alone |
| S82832C | 82311 | Other fracture of upper and lower end of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of upper end of fibula alone |
| S82101B | 82312 | Unspecified fracture of upper end of right tibia, initial encounter for open fracture type I or II | Open fracture of upper end of fibula with tibia |
| S82102B | 82312 | Unspecified fracture of upper end of left tibia, initial encounter for open fracture type I or II | Open fracture of upper end of fibula with tibia |
| S82831B | 82312 | Other fracture of upper and lower end of right fibula, initial encounter for open fracture type I or II | Open fracture of upper end of fibula with tibia |
| S82832B | 82312 | Other fracture of upper and lower end of left fibula, initial encounter for open fracture type I or II | Open fracture of upper end of fibula with tibia |
| S82201A | 82320 | Unspecified fracture of shaft of right tibia, initial encounter for closed fracture | Closed fracture of shaft of tibia alone |
| S82202A | 82320 | Unspecified fracture of shaft of left tibia, initial encounter for closed fracture | Closed fracture of shaft of tibia alone |
| S82221A | 82320 | Displaced transverse fracture of shaft of right tibia, initial encounter for closed fracture | Closed fracture of shaft of tibia alone |
| S82222A | 82320 | Displaced transverse fracture of shaft of left tibia, initial encounter for closed fracture | Closed fracture of shaft of tibia alone |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|---|
| S82466A | 82321 | Nondisplaced segmental fracture of shaft of unspecified fibula, initial encounter for closed fracture | Closed fracture of shaft of fibula alone |
| S82491A | 82321 | Other fracture of shaft of right fibula, initial encounter for closed fracture | Closed fracture of shaft of fibula alone |
| S82492A | 82321 | Other fracture of shaft of left fibula, initial encounter for closed fracture | Closed fracture of shaft of fibula alone |
| S82499A | 82321 | Other fracture of shaft of unspecified fibula, initial encounter for closed fracture | Closed fracture of shaft of fibula alone |
| S82861A | 82321 | Displaced Maisonneuve's fracture of right leg, initial encounter for closed fracture | Closed fracture of shaft of fibula alone |
| S82862A | 82321 | Displaced Maisonneuve's fracture of left leg, initial encounter for closed fracture | Closed fracture of shaft of fibula alone |
| S82863A | 82321 | Displaced Maisonneuve's fracture of unspecified leg, initial encounter for closed fracture | Closed fracture of shaft of fibula alone |
| S82864A | 82321 | Nondisplaced Maisonneuve's fracture of right leg, initial encounter for closed fracture | Closed fracture of shaft of fibula alone |
| S82865A | 82321 | Nondisplaced Maisonneuve's fracture of left leg, initial encounter for closed fracture | Closed fracture of shaft of fibula alone |
| S82866A | 82321 | Nondisplaced Maisonneuve's fracture of unspecified leg, initial encounter for closed fracture | Closed fracture of shaft of fibula alone |
| S82201A | 82322 | Unspecified fracture of shaft of right tibia, initial encounter for closed fracture | Closed fracture of shaft of fibula with tibia |
| S82202A | 82322 | Unspecified fracture of shaft of left tibia, initial encounter for closed fracture | Closed fracture of shaft of fibula with tibia |
| S82401A | 82322 | Unspecified fracture of shaft of right fibula, initial encounter for closed fracture | Closed fracture of shaft of fibula with tibia |
| S82402A | 82322 | Unspecified fracture of shaft of left fibula, initial encounter for closed fracture | Closed fracture of shaft of fibula with tibia |
| S82201B | 82330 | Unspecified fracture of shaft of right tibia, initial encounter for open fracture type I or II | Open fracture of shaft of tibia alone |
| S82201C | 82330 | Unspecified fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of tibia alone |
| S82202B | 82330 | Unspecified fracture of shaft of left tibia, initial encounter for open fracture type I or II | Open fracture of shaft of tibia alone |
| S82202C | 82330 | Unspecified fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of tibia alone |
| S82221B | 82330 | Displaced transverse fracture of shaft of right tibia, initial encounter for open fracture type I or II | Open fracture of shaft of tibia alone |
| S82221C | 82330 | Displaced transverse fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of tibia alone |
| S82222B | 82330 | Displaced transverse fracture of shaft of left tibia, initial encounter for open fracture type I or II | Open fracture of shaft of tibia alone |
| S82222C | 82330 | Displaced transverse fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of tibia alone |
| S82223B | 82330 | Displaced transverse fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II | Open fracture of shaft of tibia alone |
| S82223C | 82330 | Displaced transverse fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of tibia alone |
| S82224B | 82330 | Nondisplaced transverse fracture of shaft of right tibia, initial encounter for open fracture type I or II | Open fracture of shaft of tibia alone |
| S82224C | 82330 | Nondisplaced transverse fracture of shaft of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of tibia alone |
| S82225B | 82330 | Nondisplaced transverse fracture of shaft of left tibia, initial encounter for open fracture type I or II | Open fracture of shaft of tibia alone |
| S82225C | 82330 | Nondisplaced transverse fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of tibia alone |
| S82226B | 82330 | Nondisplaced transverse fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II | Open fracture of shaft of tibia alone |
| S82226C | 82330 | Nondisplaced transverse fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of tibia alone |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|---|
| S82492B | 82331 | Other fracture of shaft of left fibula, initial encounter for open fracture type I or II | Open fracture of shaft of fibula alone |
| S82492C | 82331 | Other fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of fibula alone |
| S82499B | 82331 | Other fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II | Open fracture of shaft of fibula alone |
| S82499C | 82331 | Other fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of fibula alone |
| S82861B | 82331 | Displaced Maisonneuve's fracture of right leg, initial encounter for open fracture type I or II | Open fracture of shaft of fibula alone |
| S82861C | 82331 | Displaced Maisonneuve's fracture of right leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of fibula alone |
| S82862B | 82331 | Displaced Maisonneuve's fracture of left leg, initial encounter for open fracture type I or II | Open fracture of shaft of fibula alone |
| S82862C | 82331 | Displaced Maisonneuve's fracture of left leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of fibula alone |
| S82863B | 82331 | Displaced Maisonneuve's fracture of unspecified leg, initial encounter for open fracture type I or II | Open fracture of shaft of fibula alone |
| S82863C | 82331 | Displaced Maisonneuve's fracture of unspecified leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of fibula alone |
| S82864B | 82331 | Nondisplaced Maisonneuve's fracture of right leg, initial encounter for open fracture type I or II | Open fracture of shaft of fibula alone |
| S82864C | 82331 | Nondisplaced Maisonneuve's fracture of right leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of fibula alone |
| S82865B | 82331 | Nondisplaced Maisonneuve's fracture of left leg, initial encounter for open fracture type I or II | Open fracture of shaft of fibula alone |
| S82865C | 82331 | Nondisplaced Maisonneuve's fracture of left leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of fibula alone |
| S82866B | 82331 | Nondisplaced Maisonneuve's fracture of unspecified leg, initial encounter for open fracture type I or II | Open fracture of shaft of fibula alone |
| S82866C | 82331 | Nondisplaced Maisonneuve's fracture of unspecified leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of shaft of fibula alone |
| S82201B | 82332 | Unspecified fracture of shaft of right tibia, initial encounter for open fracture type I or II | Open fracture of shaft of fibula with tibia |
| S82202B | 82332 | Unspecified fracture of shaft of left tibia, initial encounter for open fracture type I or II | Open fracture of shaft of fibula with tibia |
| S82401B | 82332 | Unspecified fracture of shaft of right fibula, initial encounter for open fracture type I or II | Open fracture of shaft of fibula with tibia |
| S82402B | 82332 | Unspecified fracture of shaft of left fibula, initial encounter for open fracture type I or II | Open fracture of shaft of fibula with tibia |
| S82161A | 82340 | Torus fracture of upper end of right tibia, initial encounter for closed fracture | Torus fracture, tibia alone |
| S82162A | 82340 | Torus fracture of upper end of left tibia, initial encounter for closed fracture | Torus fracture, tibia alone |
| S82311A | 82340 | Torus fracture of lower end of right tibia, initial encounter for closed fracture | Torus fracture, tibia alone |
| S82312A | 82340 | Torus fracture of lower end of left tibia, initial encounter for closed fracture | Torus fracture, tibia alone |
| S82811A | 82341 | Torus fracture of upper end of right fibula, initial encounter for closed fracture | Torus fracture, fibula alone |
| S82812A | 82341 | Torus fracture of upper end of left fibula, initial encounter for closed fracture | Torus fracture, fibula alone |
| S82821A | 82341 | Torus fracture of lower end of right fibula, initial encounter for closed fracture | Torus fracture, fibula alone |
| S82822A | 82341 | Torus fracture of lower end of left fibula, initial encounter for closed fracture | Torus fracture, fibula alone |
| S82161A | 82342 | Torus fracture of upper end of right tibia, initial encounter for closed fracture | Torus fracture, fibula with tibia |
| S82162A | 82342 | Torus fracture of upper end of left tibia, initial encounter for closed fracture | Torus fracture, fibula with tibia |
| S82311A | 82342 | Torus fracture of lower end of right tibia, initial encounter for closed fracture | Torus fracture, fibula with tibia |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|--|
| S82312A | 82342 | Torus fracture of lower end of left tibia, initial encounter for closed fracture | Torus fracture, fibula with tibia |
| S82811A | 82342 | Torus fracture of upper end of right fibula, initial encounter for closed fracture | Torus fracture, fibula with tibia |
| S82812A | 82342 | Torus fracture of upper end of left fibula, initial encounter for closed fracture | Torus fracture, fibula with tibia |
| S82821A | 82342 | Torus fracture of lower end of right fibula, initial encounter for closed fracture | Torus fracture, fibula with tibia |
| S82822A | 82342 | Torus fracture of lower end of left fibula, initial encounter for closed fracture | Torus fracture, fibula with tibia |
| S82202A | 82380 | Unspecified fracture of shaft of left tibia, initial encounter for closed fracture | Closed fracture of unspecified part of tibia alone |
| S82209A | 82380 | Unspecified fracture of shaft of unspecified tibia, initial encounter for closed fracture | Closed fracture of unspecified part of tibia alone |
| S82402A | 82381 | Unspecified fracture of shaft of left fibula, initial encounter for closed fracture | Closed fracture of unspecified part of fibula alone |
| S82409A | 82381 | Unspecified fracture of shaft of unspecified fibula, initial encounter for closed fracture | Closed fracture of unspecified part of fibula alone |
| S82201A | 82382 | Unspecified fracture of shaft of right tibia, initial encounter for closed fracture | Closed fracture of unspecified part of fibula with tibia |
| S82202A | 82382 | Unspecified fracture of shaft of left tibia, initial encounter for closed fracture | Closed fracture of unspecified part of fibula with tibia |
| S82401A | 82382 | Unspecified fracture of shaft of right fibula, initial encounter for closed fracture | Closed fracture of unspecified part of fibula with tibia |
| S82402A | 82382 | Unspecified fracture of shaft of left fibula, initial encounter for closed fracture | Closed fracture of unspecified part of fibula with tibia |
| S82202B | 82390 | Unspecified fracture of shaft of left tibia, initial encounter for open fracture type I or II | Open fracture of unspecified part of tibia alone |
| S82202C | 82390 | Unspecified fracture of shaft of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of unspecified part of tibia alone |
| S82209B | 82390 | Unspecified fracture of shaft of unspecified tibia, initial encounter for open fracture type I or II | Open fracture of unspecified part of tibia alone |
| S82209C | 82390 | Unspecified fracture of shaft of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of unspecified part of tibia alone |
| S82402B | 82391 | Unspecified fracture of shaft of left fibula, initial encounter for open fracture type I or II | Open fracture of unspecified part of fibula alone |
| S82402C | 82391 | Unspecified fracture of shaft of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of unspecified part of fibula alone |
| S82409B | 82391 | Unspecified fracture of shaft of unspecified fibula, initial encounter for open fracture type I or II | Open fracture of unspecified part of fibula alone |
| S82409C | 82391 | Unspecified fracture of shaft of unspecified fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC | Open fracture of unspecified part of fibula alone |
| S82201B | 82392 | Unspecified fracture of shaft of right tibia, initial encounter for open fracture type I or II | Open fracture of unspecified part of fibula with tibia |
| S82202B | 82392 | Unspecified fracture of shaft of left tibia, initial encounter for open fracture type I or II | Open fracture of unspecified part of fibula with tibia |
| S82401B | 82392 | Unspecified fracture of shaft of right fibula, initial encounter for open fracture type I or II | Open fracture of unspecified part of fibula with tibia |
| S82402B | 82392 | Unspecified fracture of shaft of left fibula, initial encounter for open fracture type I or II | Open fracture of unspecified part of fibula with tibia |
| S8251XA | 8240 | Displaced fracture of medial malleolus of right tibia, initial encounter for closed fracture | Fracture of medial malleolus, closed |
| S8252XA | 8240 | Displaced fracture of medial malleolus of left tibia, initial encounter for closed fracture | Fracture of medial malleolus, closed |
| S8254XA | 8240 | Nondisplaced fracture of medial malleolus of right tibia, initial encounter for closed fracture | Fracture of medial malleolus, closed |
| S8255XA | 8240 | Nondisplaced fracture of medial malleolus of left tibia, initial encounter for closed fracture | Fracture of medial malleolus, closed |
| S82871A | 8240 | Displaced pilon fracture of right tibia, initial encounter for closed fracture | Fracture of medial malleolus, closed |
| S82872A | 8240 | Displaced pilon fracture of left tibia, initial encounter for closed fracture | Fracture of medial malleolus, closed |

Appendix A
Frailty markers

| | | | |
|---------|------|--|---------------------------------------|
| S82873A | 8240 | Displaced pilon fracture of unspecified tibia, initial encounter for closed fracture | Fracture of medial malleolus, closed |
| S82874A | 8240 | Nondisplaced pilon fracture of right tibia, initial encounter for closed fracture | Fracture of medial malleolus, closed |
| S82875A | 8240 | Nondisplaced pilon fracture of left tibia, initial encounter for closed fracture | Fracture of medial malleolus, closed |
| S82876A | 8240 | Nondisplaced pilon fracture of unspecified tibia, initial encounter for closed fracture | Fracture of medial malleolus, closed |
| S8251XB | 8241 | Displaced fracture of medial malleolus of right tibia, initial encounter for open fracture type I or II | Fracture of medial malleolus, open |
| S8251XC | 8241 | Displaced fracture of medial malleolus of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Fracture of medial malleolus, open |
| S8252XB | 8241 | Displaced fracture of medial malleolus of left tibia, initial encounter for open fracture type I or II | Fracture of medial malleolus, open |
| S8252XC | 8241 | Displaced fracture of medial malleolus of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Fracture of medial malleolus, open |
| S8254XB | 8241 | Nondisplaced fracture of medial malleolus of right tibia, initial encounter for open fracture type I or II | Fracture of medial malleolus, open |
| S8254XC | 8241 | Nondisplaced fracture of medial malleolus of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Fracture of medial malleolus, open |
| S8255XB | 8241 | Nondisplaced fracture of medial malleolus of left tibia, initial encounter for open fracture type I or II | Fracture of medial malleolus, open |
| S8255XC | 8241 | Nondisplaced fracture of medial malleolus of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Fracture of medial malleolus, open |
| S82871B | 8241 | Displaced pilon fracture of right tibia, initial encounter for open fracture type I or II | Fracture of medial malleolus, open |
| S82871C | 8241 | Displaced pilon fracture of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Fracture of medial malleolus, open |
| S82872B | 8241 | Displaced pilon fracture of left tibia, initial encounter for open fracture type I or II | Fracture of medial malleolus, open |
| S82872C | 8241 | Displaced pilon fracture of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Fracture of medial malleolus, open |
| S82873B | 8241 | Displaced pilon fracture of unspecified tibia, initial encounter for open fracture type I or II | Fracture of medial malleolus, open |
| S82873C | 8241 | Displaced pilon fracture of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Fracture of medial malleolus, open |
| S82874B | 8241 | Nondisplaced pilon fracture of right tibia, initial encounter for open fracture type I or II | Fracture of medial malleolus, open |
| S82874C | 8241 | Nondisplaced pilon fracture of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Fracture of medial malleolus, open |
| S82875B | 8241 | Nondisplaced pilon fracture of left tibia, initial encounter for open fracture type I or II | Fracture of medial malleolus, open |
| S82875C | 8241 | Nondisplaced pilon fracture of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Fracture of medial malleolus, open |
| S82876B | 8241 | Nondisplaced pilon fracture of unspecified tibia, initial encounter for open fracture type I or II | Fracture of medial malleolus, open |
| S82876C | 8241 | Nondisplaced pilon fracture of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Fracture of medial malleolus, open |
| S8261XA | 8242 | Displaced fracture of lateral malleolus of right fibula, initial encounter for closed fracture | Fracture of lateral malleolus, closed |
| S8262XA | 8242 | Displaced fracture of lateral malleolus of left fibula, initial encounter for closed fracture | Fracture of lateral malleolus, closed |
| S8264XA | 8242 | Nondisplaced fracture of lateral malleolus of right fibula, initial encounter for closed fracture | Fracture of lateral malleolus, closed |
| S8265XA | 8242 | Nondisplaced fracture of lateral malleolus of left fibula, initial encounter for closed fracture | Fracture of lateral malleolus, closed |
| S8261XB | 8243 | Displaced fracture of lateral malleolus of right fibula, initial encounter for open fracture type I or II | Fracture of lateral malleolus, open |
| S8261XC | 8243 | Displaced fracture of lateral malleolus of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC | Fracture of lateral malleolus, open |
| S8262XB | 8243 | Displaced fracture of lateral malleolus of left fibula, initial encounter for open fracture type I or II | Fracture of lateral malleolus, open |

Appendix A
Frailty markers

| | | | |
|---------|------|--|---------------------------------------|
| S8262XC | 8243 | Displaced fracture of lateral malleolus of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC | Fracture of lateral malleolus, open |
| S8264XB | 8243 | Nondisplaced fracture of lateral malleolus of right fibula, initial encounter for open fracture type I or II | Fracture of lateral malleolus, open |
| S8264XC | 8243 | Nondisplaced fracture of lateral malleolus of right fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC | Fracture of lateral malleolus, open |
| S8265XB | 8243 | Nondisplaced fracture of lateral malleolus of left fibula, initial encounter for open fracture type I or II | Fracture of lateral malleolus, open |
| S8265XC | 8243 | Nondisplaced fracture of lateral malleolus of left fibula, initial encounter for open fracture type IIIA, IIIB, or IIIC | Fracture of lateral malleolus, open |
| S82841A | 8244 | Displaced bimalleolar fracture of right lower leg, initial encounter for closed fracture | Bimalleolar fracture, closed |
| S82842A | 8244 | Displaced bimalleolar fracture of left lower leg, initial encounter for closed fracture | Bimalleolar fracture, closed |
| S82844A | 8244 | Nondisplaced bimalleolar fracture of right lower leg, initial encounter for closed fracture | Bimalleolar fracture, closed |
| S82845A | 8244 | Nondisplaced bimalleolar fracture of left lower leg, initial encounter for closed fracture | Bimalleolar fracture, closed |
| S82841B | 8245 | Displaced bimalleolar fracture of right lower leg, initial encounter for open fracture type I or II | Bimalleolar fracture, open |
| S82841C | 8245 | Displaced bimalleolar fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Bimalleolar fracture, open |
| S82842B | 8245 | Displaced bimalleolar fracture of left lower leg, initial encounter for open fracture type I or II | Bimalleolar fracture, open |
| S82842C | 8245 | Displaced bimalleolar fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Bimalleolar fracture, open |
| S82844B | 8245 | Nondisplaced bimalleolar fracture of right lower leg, initial encounter for open fracture type I or II | Bimalleolar fracture, open |
| S82844C | 8245 | Nondisplaced bimalleolar fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Bimalleolar fracture, open |
| S82845B | 8245 | Nondisplaced bimalleolar fracture of left lower leg, initial encounter for open fracture type I or II | Bimalleolar fracture, open |
| S82845C | 8245 | Nondisplaced bimalleolar fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Bimalleolar fracture, open |
| S82851A | 8246 | Displaced trimalleolar fracture of right lower leg, initial encounter for closed fracture | Trimalleolar fracture, closed |
| S82852A | 8246 | Displaced trimalleolar fracture of left lower leg, initial encounter for closed fracture | Trimalleolar fracture, closed |
| S82854A | 8246 | Nondisplaced trimalleolar fracture of right lower leg, initial encounter for closed fracture | Trimalleolar fracture, closed |
| S82855A | 8246 | Nondisplaced trimalleolar fracture of left lower leg, initial encounter for closed fracture | Trimalleolar fracture, closed |
| S82851B | 8247 | Displaced trimalleolar fracture of right lower leg, initial encounter for open fracture type I or II | Trimalleolar fracture, open |
| S82851C | 8247 | Displaced trimalleolar fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Trimalleolar fracture, open |
| S82852B | 8247 | Displaced trimalleolar fracture of left lower leg, initial encounter for open fracture type I or II | Trimalleolar fracture, open |
| S82852C | 8247 | Displaced trimalleolar fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Trimalleolar fracture, open |
| S82854B | 8247 | Nondisplaced trimalleolar fracture of right lower leg, initial encounter for open fracture type I or II | Trimalleolar fracture, open |
| S82854C | 8247 | Nondisplaced trimalleolar fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Trimalleolar fracture, open |
| S82855B | 8247 | Nondisplaced trimalleolar fracture of left lower leg, initial encounter for open fracture type I or II | Trimalleolar fracture, open |
| S82855C | 8247 | Nondisplaced trimalleolar fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Trimalleolar fracture, open |
| S82301A | 8248 | Unspecified fracture of lower end of right tibia, initial encounter for closed fracture | Unspecified fracture of ankle, closed |
| S82302A | 8248 | Unspecified fracture of lower end of left tibia, initial encounter for closed fracture | Unspecified fracture of ankle, closed |

Appendix A
Frailty markers

| | | | |
|---------|------|--|---------------------------------------|
| S89322A | 8248 | Salter-Harris Type II physeal fracture of lower end of left fibula, initial encounter for closed fracture | Unspecified fracture of ankle, closed |
| S89329A | 8248 | Salter-Harris Type II physeal fracture of lower end of unspecified fibula, initial encounter for closed fracture | Unspecified fracture of ankle, closed |
| S89391A | 8248 | Other physeal fracture of lower end of right fibula, initial encounter for closed fracture | Unspecified fracture of ankle, closed |
| S89392A | 8248 | Other physeal fracture of lower end of left fibula, initial encounter for closed fracture | Unspecified fracture of ankle, closed |
| S89399A | 8248 | Other physeal fracture of lower end of unspecified fibula, initial encounter for closed fracture | Unspecified fracture of ankle, closed |
| S82301B | 8249 | Unspecified fracture of lower end of right tibia, initial encounter for open fracture type I or II | Unspecified fracture of ankle, open |
| S82301C | 8249 | Unspecified fracture of lower end of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Unspecified fracture of ankle, open |
| S82302B | 8249 | Unspecified fracture of lower end of left tibia, initial encounter for open fracture type I or II | Unspecified fracture of ankle, open |
| S82302C | 8249 | Unspecified fracture of lower end of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Unspecified fracture of ankle, open |
| S82309B | 8249 | Unspecified fracture of lower end of unspecified tibia, initial encounter for open fracture type I or II | Unspecified fracture of ankle, open |
| S82309C | 8249 | Unspecified fracture of lower end of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Unspecified fracture of ankle, open |
| S82391B | 8249 | Other fracture of lower end of right tibia, initial encounter for open fracture type I or II | Unspecified fracture of ankle, open |
| S82391C | 8249 | Other fracture of lower end of right tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Unspecified fracture of ankle, open |
| S82392B | 8249 | Other fracture of lower end of left tibia, initial encounter for open fracture type I or II | Unspecified fracture of ankle, open |
| S82392C | 8249 | Other fracture of lower end of left tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Unspecified fracture of ankle, open |
| S82399B | 8249 | Other fracture of lower end of unspecified tibia, initial encounter for open fracture type I or II | Unspecified fracture of ankle, open |
| S82399C | 8249 | Other fracture of lower end of unspecified tibia, initial encounter for open fracture type IIIA, IIIB, or IIIC | Unspecified fracture of ankle, open |
| S82891B | 8249 | Other fracture of right lower leg, initial encounter for open fracture type I or II | Unspecified fracture of ankle, open |
| S82891C | 8249 | Other fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Unspecified fracture of ankle, open |
| S82892B | 8249 | Other fracture of left lower leg, initial encounter for open fracture type I or II | Unspecified fracture of ankle, open |
| S82892C | 8249 | Other fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Unspecified fracture of ankle, open |
| S92001A | 8250 | Unspecified fracture of right calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92002A | 8250 | Unspecified fracture of left calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92011A | 8250 | Displaced fracture of body of right calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92012A | 8250 | Displaced fracture of body of left calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92013A | 8250 | Displaced fracture of body of unspecified calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92014A | 8250 | Nondisplaced fracture of body of right calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92015A | 8250 | Nondisplaced fracture of body of left calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92016A | 8250 | Nondisplaced fracture of body of unspecified calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92021A | 8250 | Displaced fracture of anterior process of right calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92022A | 8250 | Displaced fracture of anterior process of left calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |

Appendix A
Frailty markers

| | | | |
|---------|------|--|-------------------------------|
| S92023A | 8250 | Displaced fracture of anterior process of unspecified calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92024A | 8250 | Nondisplaced fracture of anterior process of right calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92025A | 8250 | Nondisplaced fracture of anterior process of left calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92026A | 8250 | Nondisplaced fracture of anterior process of unspecified calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92031A | 8250 | Displaced avulsion fracture of tuberosity of right calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92032A | 8250 | Displaced avulsion fracture of tuberosity of left calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92033A | 8250 | Displaced avulsion fracture of tuberosity of unspecified calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92034A | 8250 | Nondisplaced avulsion fracture of tuberosity of right calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92035A | 8250 | Nondisplaced avulsion fracture of tuberosity of left calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92036A | 8250 | Nondisplaced avulsion fracture of tuberosity of unspecified calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92041A | 8250 | Displaced other fracture of tuberosity of right calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92042A | 8250 | Displaced other fracture of tuberosity of left calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92043A | 8250 | Displaced other fracture of tuberosity of unspecified calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92044A | 8250 | Nondisplaced other fracture of tuberosity of right calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92045A | 8250 | Nondisplaced other fracture of tuberosity of left calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92046A | 8250 | Nondisplaced other fracture of tuberosity of unspecified calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92051A | 8250 | Displaced other extraarticular fracture of right calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92052A | 8250 | Displaced other extraarticular fracture of left calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92053A | 8250 | Displaced other extraarticular fracture of unspecified calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92054A | 8250 | Nondisplaced other extraarticular fracture of right calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92055A | 8250 | Nondisplaced other extraarticular fracture of left calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92056A | 8250 | Nondisplaced other extraarticular fracture of unspecified calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92061A | 8250 | Displaced intraarticular fracture of right calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92062A | 8250 | Displaced intraarticular fracture of left calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92063A | 8250 | Displaced intraarticular fracture of unspecified calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92064A | 8250 | Nondisplaced intraarticular fracture of right calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92065A | 8250 | Nondisplaced intraarticular fracture of left calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92066A | 8250 | Nondisplaced intraarticular fracture of unspecified calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S99001A | 8250 | Unspecified physeal fracture of right calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S99002A | 8250 | Unspecified physeal fracture of left calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S99011A | 8250 | Salter-Harris Type I physeal fracture of right calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |

Appendix A
Frailty markers

| | | | |
|---------|------|--|-------------------------------|
| S99012A | 8250 | Salter-Harris Type I physeal fracture of left calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S99021A | 8250 | Salter-Harris Type II physeal fracture of right calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S99022A | 8250 | Salter-Harris Type II physeal fracture of left calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S99031A | 8250 | Salter-Harris Type III physeal fracture of right calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S99032A | 8250 | Salter-Harris Type III physeal fracture of left calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S99041A | 8250 | Salter-Harris Type IV physeal fracture of right calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S99042A | 8250 | Salter-Harris Type IV physeal fracture of left calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S99091A | 8250 | Other physeal fracture of right calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S99092A | 8250 | Other physeal fracture of left calcaneus, initial encounter for closed fracture | Fracture of calcaneus, closed |
| S92001B | 8251 | Unspecified fracture of right calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92002B | 8251 | Unspecified fracture of left calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92011B | 8251 | Displaced fracture of body of right calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92012B | 8251 | Displaced fracture of body of left calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92013B | 8251 | Displaced fracture of body of unspecified calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92014B | 8251 | Nondisplaced fracture of body of right calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92015B | 8251 | Nondisplaced fracture of body of left calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92016B | 8251 | Nondisplaced fracture of body of unspecified calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92021B | 8251 | Displaced fracture of anterior process of right calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92022B | 8251 | Displaced fracture of anterior process of left calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92023B | 8251 | Displaced fracture of anterior process of unspecified calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92024B | 8251 | Nondisplaced fracture of anterior process of right calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92025B | 8251 | Nondisplaced fracture of anterior process of left calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92026B | 8251 | Nondisplaced fracture of anterior process of unspecified calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92031B | 8251 | Displaced avulsion fracture of tuberosity of right calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92032B | 8251 | Displaced avulsion fracture of tuberosity of left calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92033B | 8251 | Displaced avulsion fracture of tuberosity of unspecified calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92034B | 8251 | Nondisplaced avulsion fracture of tuberosity of right calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92035B | 8251 | Nondisplaced avulsion fracture of tuberosity of left calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92036B | 8251 | Nondisplaced avulsion fracture of tuberosity of unspecified calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92041B | 8251 | Displaced other fracture of tuberosity of right calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92042B | 8251 | Displaced other fracture of tuberosity of left calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|--|
| S92043B | 8251 | Displaced other fracture of tuberosity of unspecified calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92044B | 8251 | Nondisplaced other fracture of tuberosity of right calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92045B | 8251 | Nondisplaced other fracture of tuberosity of left calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92046B | 8251 | Nondisplaced other fracture of tuberosity of unspecified calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92051B | 8251 | Displaced other extraarticular fracture of right calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92052B | 8251 | Displaced other extraarticular fracture of left calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92053B | 8251 | Displaced other extraarticular fracture of unspecified calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92054B | 8251 | Nondisplaced other extraarticular fracture of right calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92055B | 8251 | Nondisplaced other extraarticular fracture of left calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92056B | 8251 | Nondisplaced other extraarticular fracture of unspecified calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92061B | 8251 | Displaced intraarticular fracture of right calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92062B | 8251 | Displaced intraarticular fracture of left calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92063B | 8251 | Displaced intraarticular fracture of unspecified calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92064B | 8251 | Nondisplaced intraarticular fracture of right calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92065B | 8251 | Nondisplaced intraarticular fracture of left calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92066B | 8251 | Nondisplaced intraarticular fracture of unspecified calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S99001B | 8251 | Unspecified physeal fracture of right calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S99002B | 8251 | Unspecified physeal fracture of left calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S99011B | 8251 | Salter-Harris Type I physeal fracture of right calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S99012B | 8251 | Salter-Harris Type I physeal fracture of left calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S99021B | 8251 | Salter-Harris Type II physeal fracture of right calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S99022B | 8251 | Salter-Harris Type II physeal fracture of left calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S99031B | 8251 | Salter-Harris Type III physeal fracture of right calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S99032B | 8251 | Salter-Harris Type III physeal fracture of left calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S99041B | 8251 | Salter-Harris Type IV physeal fracture of right calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S99042B | 8251 | Salter-Harris Type IV physeal fracture of left calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S99091B | 8251 | Other physeal fracture of right calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S99092B | 8251 | Other physeal fracture of left calcaneus, initial encounter for open fracture | Fracture of calcaneus, open |
| S92811A | 82520 | Other fracture of right foot, initial encounter for closed fracture | Closed fracture of unspecified bone(s) of foot [except toes] |
| S92812A | 82520 | Other fracture of left foot, initial encounter for closed fracture | Closed fracture of unspecified bone(s) of foot [except toes] |
| S92901A | 82520 | Unspecified fracture of right foot, initial encounter for closed fracture | Closed fracture of unspecified bone(s) of foot [except toes] |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|--|
| S92902A | 82520 | Unspecified fracture of left foot, initial encounter for closed fracture | Closed fracture of unspecified bone(s) of foot [except toes] |
| S92101A | 82521 | Unspecified fracture of right talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92102A | 82521 | Unspecified fracture of left talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92111A | 82521 | Displaced fracture of neck of right talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92112A | 82521 | Displaced fracture of neck of left talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92113A | 82521 | Displaced fracture of neck of unspecified talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92114A | 82521 | Nondisplaced fracture of neck of right talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92115A | 82521 | Nondisplaced fracture of neck of left talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92116A | 82521 | Nondisplaced fracture of neck of unspecified talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92121A | 82521 | Displaced fracture of body of right talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92122A | 82521 | Displaced fracture of body of left talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92123A | 82521 | Displaced fracture of body of unspecified talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92124A | 82521 | Nondisplaced fracture of body of right talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92125A | 82521 | Nondisplaced fracture of body of left talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92126A | 82521 | Nondisplaced fracture of body of unspecified talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92131A | 82521 | Displaced fracture of posterior process of right talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92132A | 82521 | Displaced fracture of posterior process of left talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92133A | 82521 | Displaced fracture of posterior process of unspecified talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92134A | 82521 | Nondisplaced fracture of posterior process of right talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92135A | 82521 | Nondisplaced fracture of posterior process of left talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92136A | 82521 | Nondisplaced fracture of posterior process of unspecified talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92141A | 82521 | Displaced dome fracture of right talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92142A | 82521 | Displaced dome fracture of left talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92143A | 82521 | Displaced dome fracture of unspecified talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92144A | 82521 | Nondisplaced dome fracture of right talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92145A | 82521 | Nondisplaced dome fracture of left talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92146A | 82521 | Nondisplaced dome fracture of unspecified talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92151A | 82521 | Displaced avulsion fracture (chip fracture) of right talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92152A | 82521 | Displaced avulsion fracture (chip fracture) of left talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92153A | 82521 | Displaced avulsion fracture (chip fracture) of unspecified talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92154A | 82521 | Nondisplaced avulsion fracture (chip fracture) of right talus, initial encounter for closed fracture | Closed fracture of astragalus |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|---|
| S92155A | 82521 | Nondisplaced avulsion fracture (chip fracture) of left talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92156A | 82521 | Nondisplaced avulsion fracture (chip fracture) of unspecified talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92191A | 82521 | Other fracture of right talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92192A | 82521 | Other fracture of left talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92199A | 82521 | Other fracture of unspecified talus, initial encounter for closed fracture | Closed fracture of astragalus |
| S92251A | 82522 | Displaced fracture of navicular [scaphoid] of right foot, initial encounter for closed fracture | Closed fracture of navicular [scaphoid], foot |
| S92252A | 82522 | Displaced fracture of navicular [scaphoid] of left foot, initial encounter for closed fracture | Closed fracture of navicular [scaphoid], foot |
| S92254A | 82522 | Nondisplaced fracture of navicular [scaphoid] of right foot, initial encounter for closed fracture | Closed fracture of navicular [scaphoid], foot |
| S92255A | 82522 | Nondisplaced fracture of navicular [scaphoid] of left foot, initial encounter for closed fracture | Closed fracture of navicular [scaphoid], foot |
| S92211A | 82523 | Displaced fracture of cuboid bone of right foot, initial encounter for closed fracture | Closed fracture of cuboid |
| S92212A | 82523 | Displaced fracture of cuboid bone of left foot, initial encounter for closed fracture | Closed fracture of cuboid |
| S92214A | 82523 | Nondisplaced fracture of cuboid bone of right foot, initial encounter for closed fracture | Closed fracture of cuboid |
| S92215A | 82523 | Nondisplaced fracture of cuboid bone of left foot, initial encounter for closed fracture | Closed fracture of cuboid |
| S92221A | 82524 | Displaced fracture of lateral cuneiform of right foot, initial encounter for closed fracture | Closed fracture of cuneiform, foot |
| S92222A | 82524 | Displaced fracture of lateral cuneiform of left foot, initial encounter for closed fracture | Closed fracture of cuneiform, foot |
| S92224A | 82524 | Nondisplaced fracture of lateral cuneiform of right foot, initial encounter for closed fracture | Closed fracture of cuneiform, foot |
| S92225A | 82524 | Nondisplaced fracture of lateral cuneiform of left foot, initial encounter for closed fracture | Closed fracture of cuneiform, foot |
| S92231A | 82524 | Displaced fracture of intermediate cuneiform of right foot, initial encounter for closed fracture | Closed fracture of cuneiform, foot |
| S92232A | 82524 | Displaced fracture of intermediate cuneiform of left foot, initial encounter for closed fracture | Closed fracture of cuneiform, foot |
| S92234A | 82524 | Nondisplaced fracture of intermediate cuneiform of right foot, initial encounter for closed fracture | Closed fracture of cuneiform, foot |
| S92235A | 82524 | Nondisplaced fracture of intermediate cuneiform of left foot, initial encounter for closed fracture | Closed fracture of cuneiform, foot |
| S92241A | 82524 | Displaced fracture of medial cuneiform of right foot, initial encounter for closed fracture | Closed fracture of cuneiform, foot |
| S92242A | 82524 | Displaced fracture of medial cuneiform of left foot, initial encounter for closed fracture | Closed fracture of cuneiform, foot |
| S92244A | 82524 | Nondisplaced fracture of medial cuneiform of right foot, initial encounter for closed fracture | Closed fracture of cuneiform, foot |
| S92245A | 82524 | Nondisplaced fracture of medial cuneiform of left foot, initial encounter for closed fracture | Closed fracture of cuneiform, foot |
| S92301A | 82525 | Fracture of unspecified metatarsal bone(s), right foot, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |
| S92302A | 82525 | Fracture of unspecified metatarsal bone(s), left foot, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |
| S92311A | 82525 | Displaced fracture of first metatarsal bone, right foot, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |
| S92312A | 82525 | Displaced fracture of first metatarsal bone, left foot, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |
| S92313A | 82525 | Displaced fracture of first metatarsal bone, unspecified foot, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |
| S92314A | 82525 | Nondisplaced fracture of first metatarsal bone, right foot, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|--|
| S99122A | 82525 | Salter-Harris Type II physeal fracture of left metatarsal, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |
| S99131A | 82525 | Salter-Harris Type III physeal fracture of right metatarsal, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |
| S99132A | 82525 | Salter-Harris Type III physeal fracture of left metatarsal, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |
| S99141A | 82525 | Salter-Harris Type IV physeal fracture of right metatarsal, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |
| S99142A | 82525 | Salter-Harris Type IV physeal fracture of left metatarsal, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |
| S99191A | 82525 | Other physeal fracture of right metatarsal, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |
| S99192A | 82525 | Other physeal fracture of left metatarsal, initial encounter for closed fracture | Closed fracture of metatarsal bone(s) |
| S92301A | 82529 | Fracture of unspecified metatarsal bone(s), right foot, initial encounter for closed fracture | Other closed fracture of tarsal and metatarsal bones |
| S92302A | 82529 | Fracture of unspecified metatarsal bone(s), left foot, initial encounter for closed fracture | Other closed fracture of tarsal and metatarsal bones |
| S92811B | 82530 | Other fracture of right foot, initial encounter for open fracture | Open fracture of unspecified bone(s) of foot [except toes] |
| S92812B | 82530 | Other fracture of left foot, initial encounter for open fracture | Open fracture of unspecified bone(s) of foot [except toes] |
| S92901B | 82530 | Unspecified fracture of right foot, initial encounter for open fracture | Open fracture of unspecified bone(s) of foot [except toes] |
| S92902B | 82530 | Unspecified fracture of left foot, initial encounter for open fracture | Open fracture of unspecified bone(s) of foot [except toes] |
| S92101B | 82531 | Unspecified fracture of right talus, initial encounter for open fracture | Open fracture of astragalus |
| S92102B | 82531 | Unspecified fracture of left talus, initial encounter for open fracture | Open fracture of astragalus |
| S92111B | 82531 | Displaced fracture of neck of right talus, initial encounter for open fracture | Open fracture of astragalus |
| S92112B | 82531 | Displaced fracture of neck of left talus, initial encounter for open fracture | Open fracture of astragalus |
| S92113B | 82531 | Displaced fracture of neck of unspecified talus, initial encounter for open fracture | Open fracture of astragalus |
| S92114B | 82531 | Nondisplaced fracture of neck of right talus, initial encounter for open fracture | Open fracture of astragalus |
| S92115B | 82531 | Nondisplaced fracture of neck of left talus, initial encounter for open fracture | Open fracture of astragalus |
| S92116B | 82531 | Nondisplaced fracture of neck of unspecified talus, initial encounter for open fracture | Open fracture of astragalus |
| S92121B | 82531 | Displaced fracture of body of right talus, initial encounter for open fracture | Open fracture of astragalus |
| S92122B | 82531 | Displaced fracture of body of left talus, initial encounter for open fracture | Open fracture of astragalus |
| S92123B | 82531 | Displaced fracture of body of unspecified talus, initial encounter for open fracture | Open fracture of astragalus |
| S92124B | 82531 | Nondisplaced fracture of body of right talus, initial encounter for open fracture | Open fracture of astragalus |
| S92125B | 82531 | Nondisplaced fracture of body of left talus, initial encounter for open fracture | Open fracture of astragalus |
| S92126B | 82531 | Nondisplaced fracture of body of unspecified talus, initial encounter for open fracture | Open fracture of astragalus |
| S92131B | 82531 | Displaced fracture of posterior process of right talus, initial encounter for open fracture | Open fracture of astragalus |
| S92132B | 82531 | Displaced fracture of posterior process of left talus, initial encounter for open fracture | Open fracture of astragalus |
| S92133B | 82531 | Displaced fracture of posterior process of unspecified talus, initial encounter for open fracture | Open fracture of astragalus |
| S92134B | 82531 | Nondisplaced fracture of posterior process of right talus, initial encounter for open fracture | Open fracture of astragalus |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|---|
| S92135B | 82531 | Nondisplaced fracture of posterior process of left talus, initial encounter for open fracture | Open fracture of astragalus |
| S92136B | 82531 | Nondisplaced fracture of posterior process of unspecified talus, initial encounter for open fracture | Open fracture of astragalus |
| S92141B | 82531 | Displaced dome fracture of right talus, initial encounter for open fracture | Open fracture of astragalus |
| S92142B | 82531 | Displaced dome fracture of left talus, initial encounter for open fracture | Open fracture of astragalus |
| S92143B | 82531 | Displaced dome fracture of unspecified talus, initial encounter for open fracture | Open fracture of astragalus |
| S92144B | 82531 | Nondisplaced dome fracture of right talus, initial encounter for open fracture | Open fracture of astragalus |
| S92145B | 82531 | Nondisplaced dome fracture of left talus, initial encounter for open fracture | Open fracture of astragalus |
| S92146B | 82531 | Nondisplaced dome fracture of unspecified talus, initial encounter for open fracture | Open fracture of astragalus |
| S92151B | 82531 | Displaced avulsion fracture (chip fracture) of right talus, initial encounter for open fracture | Open fracture of astragalus |
| S92152B | 82531 | Displaced avulsion fracture (chip fracture) of left talus, initial encounter for open fracture | Open fracture of astragalus |
| S92153B | 82531 | Displaced avulsion fracture (chip fracture) of unspecified talus, initial encounter for open fracture | Open fracture of astragalus |
| S92154B | 82531 | Nondisplaced avulsion fracture (chip fracture) of right talus, initial encounter for open fracture | Open fracture of astragalus |
| S92155B | 82531 | Nondisplaced avulsion fracture (chip fracture) of left talus, initial encounter for open fracture | Open fracture of astragalus |
| S92156B | 82531 | Nondisplaced avulsion fracture (chip fracture) of unspecified talus, initial encounter for open fracture | Open fracture of astragalus |
| S92191B | 82531 | Other fracture of right talus, initial encounter for open fracture | Open fracture of astragalus |
| S92192B | 82531 | Other fracture of left talus, initial encounter for open fracture | Open fracture of astragalus |
| S92199B | 82531 | Other fracture of unspecified talus, initial encounter for open fracture | Open fracture of astragalus |
| S92251B | 82532 | Displaced fracture of navicular [scaphoid] of right foot, initial encounter for open fracture | Open fracture of navicular [scaphoid], foot |
| S92252B | 82532 | Displaced fracture of navicular [scaphoid] of left foot, initial encounter for open fracture | Open fracture of navicular [scaphoid], foot |
| S92254B | 82532 | Nondisplaced fracture of navicular [scaphoid] of right foot, initial encounter for open fracture | Open fracture of navicular [scaphoid], foot |
| S92255B | 82532 | Nondisplaced fracture of navicular [scaphoid] of left foot, initial encounter for open fracture | Open fracture of navicular [scaphoid], foot |
| S92211B | 82533 | Displaced fracture of cuboid bone of right foot, initial encounter for open fracture | Open fracture of cuboid |
| S92212B | 82533 | Displaced fracture of cuboid bone of left foot, initial encounter for open fracture | Open fracture of cuboid |
| S92214B | 82533 | Nondisplaced fracture of cuboid bone of right foot, initial encounter for open fracture | Open fracture of cuboid |
| S92215B | 82533 | Nondisplaced fracture of cuboid bone of left foot, initial encounter for open fracture | Open fracture of cuboid |
| S92221B | 82534 | Displaced fracture of lateral cuneiform of right foot, initial encounter for open fracture | Open fracture of cuneiform, foot |
| S92222B | 82534 | Displaced fracture of lateral cuneiform of left foot, initial encounter for open fracture | Open fracture of cuneiform, foot |
| S92224B | 82534 | Nondisplaced fracture of lateral cuneiform of right foot, initial encounter for open fracture | Open fracture of cuneiform, foot |
| S92225B | 82534 | Nondisplaced fracture of lateral cuneiform of left foot, initial encounter for open fracture | Open fracture of cuneiform, foot |
| S92231B | 82534 | Displaced fracture of intermediate cuneiform of right foot, initial encounter for open fracture | Open fracture of cuneiform, foot |
| S92232B | 82534 | Displaced fracture of intermediate cuneiform of left foot, initial encounter for open fracture | Open fracture of cuneiform, foot |

Appendix A
Frailty markers

| | | | |
|---------|-------|---|--|
| S92346B | 82535 | Nondisplaced fracture of fourth metatarsal bone, unspecified foot, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S92351B | 82535 | Displaced fracture of fifth metatarsal bone, right foot, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S92352B | 82535 | Displaced fracture of fifth metatarsal bone, left foot, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S92353B | 82535 | Displaced fracture of fifth metatarsal bone, unspecified foot, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S92354B | 82535 | Nondisplaced fracture of fifth metatarsal bone, right foot, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S92355B | 82535 | Nondisplaced fracture of fifth metatarsal bone, left foot, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S92356B | 82535 | Nondisplaced fracture of fifth metatarsal bone, unspecified foot, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S99101B | 82535 | Unspecified physeal fracture of right metatarsal, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S99102B | 82535 | Unspecified physeal fracture of left metatarsal, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S99111B | 82535 | Salter-Harris Type I physeal fracture of right metatarsal, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S99112B | 82535 | Salter-Harris Type I physeal fracture of left metatarsal, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S99121B | 82535 | Salter-Harris Type II physeal fracture of right metatarsal, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S99122B | 82535 | Salter-Harris Type II physeal fracture of left metatarsal, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S99131B | 82535 | Salter-Harris Type III physeal fracture of right metatarsal, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S99132B | 82535 | Salter-Harris Type III physeal fracture of left metatarsal, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S99141B | 82535 | Salter-Harris Type IV physeal fracture of right metatarsal, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S99142B | 82535 | Salter-Harris Type IV physeal fracture of left metatarsal, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S99191B | 82535 | Other physeal fracture of right metatarsal, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S99192B | 82535 | Other physeal fracture of left metatarsal, initial encounter for open fracture | Open fracture of metatarsal bone(s) |
| S92301B | 82539 | Fracture of unspecified metatarsal bone(s), right foot, initial encounter for open fracture | Other open fracture of tarsal and metatarsal bones |
| S92302B | 82539 | Fracture of unspecified metatarsal bone(s), left foot, initial encounter for open fracture | Other open fracture of tarsal and metatarsal bones |
| S92401A | 8260 | Displaced unspecified fracture of right great toe, initial encounter for closed fracture | Closed fracture of one or more phalanges of foot |
| S92402A | 8260 | Displaced unspecified fracture of left great toe, initial encounter for closed fracture | Closed fracture of one or more phalanges of foot |
| S92404A | 8260 | Nondisplaced unspecified fracture of right great toe, initial encounter for closed fracture | Closed fracture of one or more phalanges of foot |
| S92405A | 8260 | Nondisplaced unspecified fracture of left great toe, initial encounter for closed fracture | Closed fracture of one or more phalanges of foot |
| S92411A | 8260 | Displaced fracture of proximal phalanx of right great toe, initial encounter for closed fracture | Closed fracture of one or more phalanges of foot |
| S92412A | 8260 | Displaced fracture of proximal phalanx of left great toe, initial encounter for closed fracture | Closed fracture of one or more phalanges of foot |
| S92413A | 8260 | Displaced fracture of proximal phalanx of unspecified great toe, initial encounter for closed fracture | Closed fracture of one or more phalanges of foot |
| S92414A | 8260 | Nondisplaced fracture of proximal phalanx of right great toe, initial encounter for closed fracture | Closed fracture of one or more phalanges of foot |
| S92415A | 8260 | Nondisplaced fracture of proximal phalanx of left great toe, initial encounter for closed fracture | Closed fracture of one or more phalanges of foot |
| S92416A | 8260 | Nondisplaced fracture of proximal phalanx of unspecified great toe, initial encounter for closed fracture | Closed fracture of one or more phalanges of foot |

Appendix A
Frailty markers

| | | | |
|---------|------|---|---|
| S92534B | 8261 | Nondisplaced fracture of distal phalanx of right lesser toe(s), initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S92535B | 8261 | Nondisplaced fracture of distal phalanx of left lesser toe(s), initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S92536B | 8261 | Nondisplaced fracture of distal phalanx of unspecified lesser toe(s), initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S92591B | 8261 | Other fracture of right lesser toe(s), initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S92592B | 8261 | Other fracture of left lesser toe(s), initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S92599B | 8261 | Other fracture of unspecified lesser toe(s), initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S92911B | 8261 | Unspecified fracture of right toe(s), initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S92912B | 8261 | Unspecified fracture of left toe(s), initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S92919B | 8261 | Unspecified fracture of unspecified toe(s), initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S99201B | 8261 | Unspecified physeal fracture of phalanx of right toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S99202B | 8261 | Unspecified physeal fracture of phalanx of left toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S99209B | 8261 | Unspecified physeal fracture of phalanx of unspecified toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S99211B | 8261 | Salter-Harris Type I physeal fracture of phalanx of right toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S99212B | 8261 | Salter-Harris Type I physeal fracture of phalanx of left toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S99219B | 8261 | Salter-Harris Type I physeal fracture of phalanx of unspecified toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S99221B | 8261 | Salter-Harris Type II physeal fracture of phalanx of right toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S99222B | 8261 | Salter-Harris Type II physeal fracture of phalanx of left toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S99229B | 8261 | Salter-Harris Type II physeal fracture of phalanx of unspecified toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S99231B | 8261 | Salter-Harris Type III physeal fracture of phalanx of right toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S99232B | 8261 | Salter-Harris Type III physeal fracture of phalanx of left toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S99239B | 8261 | Salter-Harris Type III physeal fracture of phalanx of unspecified toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S99241B | 8261 | Salter-Harris Type IV physeal fracture of phalanx of right toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S99242B | 8261 | Salter-Harris Type IV physeal fracture of phalanx of left toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S99249B | 8261 | Salter-Harris Type IV physeal fracture of phalanx of unspecified toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S99291B | 8261 | Other physeal fracture of phalanx of right toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S99292B | 8261 | Other physeal fracture of phalanx of left toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S99299B | 8261 | Other physeal fracture of phalanx of unspecified toe, initial encounter for open fracture | Open fracture of one or more phalanges of foot |
| S8291XA | 8270 | Unspecified fracture of right lower leg, initial encounter for closed fracture | Other, multiple and ill-defined fractures of lower limb, closed |
| S8292XA | 8270 | Unspecified fracture of left lower leg, initial encounter for closed fracture | Other, multiple and ill-defined fractures of lower limb, closed |
| S8290XC | 8271 | Unspecified fracture of unspecified lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other, multiple and ill-defined fractures of lower limb, open |
| S8291XB | 8271 | Unspecified fracture of right lower leg, initial encounter for open fracture type I or II | Other, multiple and ill-defined fractures of lower limb, open |

Appendix A
Frailty markers

| | | | |
|---------|------|---|--|
| S8291XC | 8271 | Unspecified fracture of right lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other, multiple and ill-defined fractures of lower limb, open |
| S8292XB | 8271 | Unspecified fracture of left lower leg, initial encounter for open fracture type I or II | Other, multiple and ill-defined fractures of lower limb, open |
| S8292XC | 8271 | Unspecified fracture of left lower leg, initial encounter for open fracture type IIIA, IIIB, or IIIC | Other, multiple and ill-defined fractures of lower limb, open |
| S2220XA | 8280 | Unspecified fracture of sternum, initial encounter for closed fracture | Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| S2249XA | 8280 | Multiple fractures of ribs, unspecified side, initial encounter for closed fracture | Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| S4290XA | 8280 | Fracture of unspecified shoulder girdle, part unspecified, initial encounter for closed fracture | Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| S5290XA | 8280 | Unspecified fracture of unspecified forearm, initial encounter for closed fracture | Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| S7291XA | 8280 | Unspecified fracture of right femur, initial encounter for closed fracture | Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| S7292XA | 8280 | Unspecified fracture of left femur, initial encounter for closed fracture | Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| S8291XA | 8280 | Unspecified fracture of right lower leg, initial encounter for closed fracture | Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| S8292XA | 8280 | Unspecified fracture of left lower leg, initial encounter for closed fracture | Closed multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| S2220XB | 8281 | Unspecified fracture of sternum, initial encounter for open fracture | Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| S2249XB | 8281 | Multiple fractures of ribs, unspecified side, initial encounter for open fracture | Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| S4290XB | 8281 | Fracture of unspecified shoulder girdle, part unspecified, initial encounter for open fracture | Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| S5290XB | 8281 | Unspecified fracture of unspecified forearm, initial encounter for open fracture type I or II | Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| S7291XE | 8281 | Unspecified fracture of right femur, subsequent encounter for open fracture type I or II with routine healing | Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| S7292XE | 8281 | Unspecified fracture of left femur, subsequent encounter for open fracture type I or II with routine healing | Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| S8291XB | 8281 | Unspecified fracture of right lower leg, initial encounter for open fracture type I or II | Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| S8292XB | 8281 | Unspecified fracture of left lower leg, initial encounter for open fracture type I or II | Open multiple fractures involving both lower limbs, lower with upper limb, and lower limb(s) with rib(s) and sternum |
| T148 | 8290 | Other injury of unspecified body region | Fracture of unspecified bone, closed |
| T148 | 8291 | Other injury of unspecified body region | Fracture of unspecified bone, open |

Falls

| ICD10 Dx | ICD9 Dx | LongDesICD10 | LongDesICD9 |
|----------|---------|---|--|
| V00181A | E8859 | Fall from other rolling-type pedestrian conveyance, initial encounter | Fall from other slipping, tripping, or stumbling |
| V00181D | E8859 | Fall from other rolling-type pedestrian conveyance, subsequent encounter | Fall from other slipping, tripping, or stumbling |
| V00182A | E8859 | Pedestrian on other rolling-type pedestrian conveyance colliding with stationary object, initial encounter | Fall from other slipping, tripping, or stumbling |
| V00182D | E8859 | Pedestrian on other rolling-type pedestrian conveyance colliding with stationary object, subsequent encounter | Fall from other slipping, tripping, or stumbling |
| V00211A | E8859 | Fall from ice-skates, initial encounter | Fall from other slipping, tripping, or stumbling |
| V00211D | E8859 | Fall from ice-skates, subsequent encounter | Fall from other slipping, tripping, or stumbling |
| V00212A | E8859 | Ice-skater colliding with stationary object, initial encounter | Fall from other slipping, tripping, or stumbling |
| V00212D | E8859 | Ice-skater colliding with stationary object, subsequent encounter | Fall from other slipping, tripping, or stumbling |
| V00221A | E8859 | Fall from sled, initial encounter | Fall from other slipping, tripping, or stumbling |
| V00221D | E8859 | Fall from sled, subsequent encounter | Fall from other slipping, tripping, or stumbling |
| V00222A | E8859 | Sledder colliding with stationary object, initial encounter | Fall from other slipping, tripping, or stumbling |
| V00222D | E8859 | Sledder colliding with stationary object, subsequent encounter | Fall from other slipping, tripping, or stumbling |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|--|
| V00281A | E8859 | Fall from other gliding-type pedestrian conveyance, initial encounter | Fall from other slipping, tripping, or stumbling |
| V00281D | E8859 | Fall from other gliding-type pedestrian conveyance, subsequent encounter | Fall from other slipping, tripping, or stumbling |
| V00282A | E8859 | Pedestrian on other gliding-type pedestrian conveyance colliding with stationary object, initial encounter | Fall from other slipping, tripping, or stumbling |
| V00282D | E8859 | Pedestrian on other gliding-type pedestrian conveyance colliding with stationary object, subsequent encounter | Fall from other slipping, tripping, or stumbling |
| V00381A | E8859 | Fall from other flat-bottomed pedestrian conveyance, initial encounter | Fall from other slipping, tripping, or stumbling |
| V00381D | E8859 | Fall from other flat-bottomed pedestrian conveyance, subsequent encounter | Fall from other slipping, tripping, or stumbling |
| V00382A | E8859 | Pedestrian on other flat-bottomed pedestrian conveyance colliding with stationary object, initial encounter | Fall from other slipping, tripping, or stumbling |
| V00382D | E8859 | Pedestrian on other flat-bottomed pedestrian conveyance colliding with stationary object, subsequent encounter | Fall from other slipping, tripping, or stumbling |
| W000XXA | E8859 | Fall on same level due to ice and snow, initial encounter | Fall from other slipping, tripping, or stumbling |
| W000XXD | E8859 | Fall on same level due to ice and snow, subsequent encounter | Fall from other slipping, tripping, or stumbling |
| W009XXA | E8859 | Unspecified fall due to ice and snow, initial encounter | Fall from other slipping, tripping, or stumbling |
| W009XXD | E8859 | Unspecified fall due to ice and snow, subsequent encounter | Fall from other slipping, tripping, or stumbling |
| W010XXA | E8859 | Fall on same level from slipping, tripping and stumbling without subsequent striking against object, initial encounter | Fall from other slipping, tripping, or stumbling |
| W010XXD | E8859 | Fall on same level from slipping, tripping and stumbling without subsequent striking against object, subsequent encounter | Fall from other slipping, tripping, or stumbling |
| W182XXA | E8859 | Fall in (into) shower or empty bathtub, initial encounter | Fall from other slipping, tripping, or stumbling |
| W182XXD | E8859 | Fall in (into) shower or empty bathtub, subsequent encounter | Fall from other slipping, tripping, or stumbling |
| W1840XA | E8859 | Slipping, tripping and stumbling without falling, unspecified, initial encounter | Fall from other slipping, tripping, or stumbling |
| W1840XD | E8859 | Slipping, tripping and stumbling without falling, unspecified, subsequent encounter | Fall from other slipping, tripping, or stumbling |
| W1841XA | E8859 | Slipping, tripping and stumbling without falling due to stepping on object, initial encounter | Fall from other slipping, tripping, or stumbling |
| W1841XD | E8859 | Slipping, tripping and stumbling without falling due to stepping on object, subsequent encounter | Fall from other slipping, tripping, or stumbling |
| W1842XA | E8859 | Slipping, tripping and stumbling without falling due to stepping into hole or opening, initial encounter | Fall from other slipping, tripping, or stumbling |
| W1842XD | E8859 | Slipping, tripping and stumbling without falling due to stepping into hole or opening, subsequent encounter | Fall from other slipping, tripping, or stumbling |
| W1843XA | E8859 | Slipping, tripping and stumbling without falling due to stepping from one level to another, initial encounter | Fall from other slipping, tripping, or stumbling |
| W1843XD | E8859 | Slipping, tripping and stumbling without falling due to stepping from one level to another, subsequent encounter | Fall from other slipping, tripping, or stumbling |
| W1849XA | E8859 | Other slipping, tripping and stumbling without falling, initial encounter | Fall from other slipping, tripping, or stumbling |
| W1849XD | E8859 | Other slipping, tripping and stumbling without falling, subsequent encounter | Fall from other slipping, tripping, or stumbling |
| W0110XA | E8880 | Fall on same level from slipping, tripping and stumbling with subsequent striking against unspecified object, initial encounter | Fall resulting in striking against sharp object |
| W0110XD | E8880 | Fall on same level from slipping, tripping and stumbling with subsequent striking against unspecified object, subsequent encounter | Fall resulting in striking against sharp object |
| W01110A | E8880 | Fall on same level from slipping, tripping and stumbling with subsequent striking against sharp glass, initial encounter | Fall resulting in striking against sharp object |
| W01110D | E8880 | Fall on same level from slipping, tripping and stumbling with subsequent striking against sharp glass, subsequent encounter | Fall resulting in striking against sharp object |

Appendix A
Frailty markers

| | | | |
|---------|-------|--|---|
| W01111A | E8880 | Fall on same level from slipping, tripping and stumbling with subsequent striking against power tool or machine, initial encounter | Fall resulting in striking against sharp object |
| W01111D | E8880 | Fall on same level from slipping, tripping and stumbling with subsequent striking against power tool or machine, subsequent encounter | Fall resulting in striking against sharp object |
| W01118A | E8880 | Fall on same level from slipping, tripping and stumbling with subsequent striking against other sharp object, initial encounter | Fall resulting in striking against sharp object |
| W01118D | E8880 | Fall on same level from slipping, tripping and stumbling with subsequent striking against other sharp object, subsequent encounter | Fall resulting in striking against sharp object |
| W01119A | E8880 | Fall on same level from slipping, tripping and stumbling with subsequent striking against unspecified sharp object, initial encounter | Fall resulting in striking against sharp object |
| W01119D | E8880 | Fall on same level from slipping, tripping and stumbling with subsequent striking against unspecified sharp object, subsequent encounter | Fall resulting in striking against sharp object |
| W1802XA | E8880 | Striking against glass with subsequent fall, initial encounter | Fall resulting in striking against sharp object |
| W1802XD | E8880 | Striking against glass with subsequent fall, subsequent encounter | Fall resulting in striking against sharp object |
| W01190A | E8881 | Fall on same level from slipping, tripping and stumbling with subsequent striking against furniture, initial encounter | Fall resulting in striking against other object |
| W01190D | E8881 | Fall on same level from slipping, tripping and stumbling with subsequent striking against furniture, subsequent encounter | Fall resulting in striking against other object |
| W01198A | E8881 | Fall on same level from slipping, tripping and stumbling with subsequent striking against other object, initial encounter | Fall resulting in striking against other object |
| W01198D | E8881 | Fall on same level from slipping, tripping and stumbling with subsequent striking against other object, subsequent encounter | Fall resulting in striking against other object |
| W1800XA | E8881 | Striking against unspecified object with subsequent fall, initial encounter | Fall resulting in striking against other object |
| W1800XD | E8881 | Striking against unspecified object with subsequent fall, subsequent encounter | Fall resulting in striking against other object |
| W1801XA | E8881 | Striking against sports equipment with subsequent fall, initial encounter | Fall resulting in striking against other object |
| W1801XD | E8881 | Striking against sports equipment with subsequent fall, subsequent encounter | Fall resulting in striking against other object |
| W1809XD | E8881 | Striking against other object with subsequent fall, subsequent encounter | Fall resulting in striking against other object |
| W04XXXA | E8888 | Fall while being carried or supported by other persons, initial encounter | Other fall |
| W04XXXD | E8888 | Fall while being carried or supported by other persons, subsequent encounter | Other fall |
| W1830XA | E8888 | Fall on same level, unspecified, initial encounter | Other fall |
| W1830XD | E8888 | Fall on same level, unspecified, subsequent encounter | Other fall |
| W1831XA | E8888 | Fall on same level due to stepping on an object, initial encounter | Other fall |
| W1831XD | E8888 | Fall on same level due to stepping on an object, subsequent encounter | Other fall |
| W1839XA | E8888 | Other fall on same level, initial encounter | Other fall |
| W1839XD | E8888 | Other fall on same level, subsequent encounter | Other fall |
| W19XXXA | E8889 | Unspecified fall, initial encounter | Unspecified fall |
| W19XXXD | E8889 | Unspecified fall, subsequent encounter | Unspecified fall |

Appendix A Frailty markers

Combined Comorbidity Score for Claims Data

[Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. Journal of Clinical Epidemiology 2011;64\(7\):749-59.](#)

[Sun JW, Rogers JR, Her O, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and Validation of the Combined Comorbidity Score for ICD-10-CM. Medical Care. 2017 Dec 1;55\(12\):1046-51.](#)

Codes used for each ICD-10-CM and ICD-9-CM version of the combined comorbidity score

| Condition | ICD-9-CM Diagnosis Code | ICD-10-CM Diagnosis Code Version 4: All | |
|-----------------------------|--|--|--|
| Metastatic cancer | 196.x–199.x | C45.9, C77.x-C80.x | If occurs, set the score to 5.0; otherwise, set the score to 0.0 |
| Congestive heart failure | 402.01, 402.11, 402.91, 425.x, 428.x, 429.3 | A18.84, I11.0, I42.x, I43.x, I50.x | If occurs, set the score to 2.0; otherwise, set the score to 0.0 |
| Dementia | 290.x, 331.0, 331.1x, 331.2 | F01.x–F03.x, G30.x, G31.01, G31.09, G31.1 | If occurs, set the score to 2.0; otherwise, set the score to 0.0 |
| Renal failure | 403.11, 403.91, 404.12, 404.92, 585.x, 586 | I12.0, I13.11, N18.x, Z48.22, Z91.15, Z94.0, Z99.2 | If occurs, set the score to 2.0; otherwise, set the score to 0.0 |
| Weight loss | 260.x–263.x | E40.x-E46.x | If occurs, set the score to 2.0; otherwise, set the score to 0.0 |
| Hemiplegia | 342.x, 344.x | G04.1, G80.2, G81.x, G82.x, G83.x | If occurs, set the score to 1.0; otherwise, set the score to 0.0 |
| Alcohol abuse | 291.1, 291.2, 291.5, 291.8x, 291.9, 303.93, 305.03 | F10.10, F10.120, F.129, F.14, F10.150, F10.159, F10.181-F10.21, F10.230, F10.232, F10.239, F10.24, F10.250, F10.259-F10.28, F10.29, F10.94, F10.950, F10.959, F10.96-F10.99 | If occurs, set the score to 1.0; otherwise, set the score to 0.0 |
| Any tumor | 140.x–165.x, 170.x-171.x, 174.x–176.x, 179, 180.x-195.x, 208.x, 273.0, 273.3 | C00.x-C26.x, C30.x–C34.x, C37.x-C41.x, C43.x, C45.x–C58.x, C60.x–C76.x, C81.x, C94.3x, C94.8x, C95.x, C96.0-C96.4, C96.9, C96.A, C96.Z, D45, D89, Z85.46 | If occurs, set the score to 1.0; otherwise, set the score to 0.0 |
| Cardiac arrhythmias | 426.10, 426.11, 426.13, 426.2-426.4, 426.50-426.53, 426.6-426.8x, 427.0, 427.2, 427.31, 427.60, 427.9, 785.0, V45.0x, V53.3x | I44.0, I44.1, I44.3x-145.2, I45.4-I45.8x, I45.9, I47.0, I47.9, I48.0, I48.1, I48.2, I48.91,, I49.2, I49.40, I49.9, R00.0, V53.3, Z45.0x, Z95.0, Z95.810, Z95.818, Z95.9 | If occurs, set the score to 1.0; otherwise, set the score to 0.0 |
| Chronic pulmonary disease | 415.0, 416.8, 416.9, 491.x–494.x, 496 | I26.0x, I27.2-I27.9, J41.x-J45.x, J47.x | If occurs, set the score to 1.0; otherwise, set the score to 0.0 |
| Coagulopathy | 286.x, 287.1, 287.3–287.5 | D65-D68.x, D69.1, D69.3–D69.6 | If occurs, set the score to 1.0; otherwise, set the score to 0.0 |
| Complicated diabetes | 250.4–250.73, 250.9x | E10.2x–E10.8, E11.2x–E11.8, E13.2x–E13.3x | If occurs, set the score to 1.0; otherwise, set the score to 0.0 |
| Deficiency anemia | 280.1–281.9, 281.x, 285.9 | D50.1-D50.9, D51.x–D53.x, D64.9 | If occurs, set the score to 1.0; otherwise, set the score to 0.0 |
| Liver disease | 070.32, 070.33, 070.54, 456.0, 456.1, 456.20, 456.21, 527.3, 571.0, 571.2, 571.3, 571.49, 571.5, 571.6, 571.8, 571.9, 572.8 | B18.x, I85.x, I86.4, K70.x, K71.1, K71.3–K71.5, K71.7, K72.x-K74.x, K76.x, Z94.4 | If occurs, set the score to 1.0; otherwise, set the score to 0.0 |
| Peripheral vascular disease | 440.x, 441.2-441.4, 441.7, 441.9, 443.1–443.9, 447.1, 557.1, 557.9, V43.4 | E08.51, E08.52, E09.51, E09.52, E10.51, E10.52, E11.51, E13.51, E13.52, I67.0, I70.x, I71.x, I73.1, I73.8x, I73.9, I77.1, I77.71-I77.74, I177.79, I79.x, K55.1, K55.8, K55.9, Z95.82x, Z95.9 | If occurs, set the score to 1.0; otherwise, set the score to 0.0 |

Appendix A
Frailty markers

| | | | |
|---------------------------------|---|---|--|
| Psychosis | 295.x-298.x, 299.10, 299.11 | F20.x, F22-25.x, F28, F29, F30.x- F33.x, F34.8, F34.9, F39, F44.89, F84.3 | If occurs, set the score to 1.0; otherwise, set the score to 0.0 |
| Pulmonary circulation disorders | 416.x, 417.9 | I27.x, I28.9 | If occurs, set the score to 1.0; otherwise, set the score to 0.0 |
| HIV/AIDS | 042, 079.53, V08 | B20, B97.35, Z21 | If occurs, set the score to -1.0; otherwise, set the score to 0.0 |
| Hypertension | 401.1, 401.9, 402.10, 402.90, 404.10, 404.90, 405.11, 405.19, 405.91, 405.99 | I10, I11.9, I13.10, I15.x, N26.2 | If occurs, set the score to -1.0; otherwise, set the score to 0.0 |

BM, backward mapping; GEMs, General Equivalence Mappings; FBM, forward-backward mapping; ICD-9-CM, International Classification of Diseases, 9th Revision, Clinical Modification; ICD-10-CM, International Classification of Diseases, 10th Revision, Clinical Modification

Appendix A Comedications

Lithium

| NDC Generic Name | |
|-------------------|------------------------------|
| LITHIUM ASPARTATE | LITHIUM CITRATE |
| LITHIUM CARBONATE | LITHIUM CITRATE TETRAHYDRATE |

Anti-epileptic mood stabilizers

| NDC Generic Name | |
|-------------------|---|
| CARBAMAZEPINE | OXCARBAZEPINE |
| DIVALPROEX SODIUM | VALPROIC ACID |
| LAMOTRIGINE | VALPROIC ACID (AS SODIUM SALT) (VALPROATE SODIUM) |

Anti-epileptic non-mood stabilizers

| NDC Generic Name | |
|------------------|---------------|
| RUFINAMIDE | LACOSAMIDE |
| VIGABATRIN | ETHOSUXIMIDE |
| EZOGABINE | FELBAMATE |
| TIAGABINE HCL | LEVETIRACETAM |
| PHENYTOIN | TOPIRAMATE |
| ZONISAMIDE | PHENOBARBITAL |
| PRIMIDONE | GABAPENTIN |
| PREGABALIN | |

Atypical antipsychotics

| NDC Generic Name | |
|----------------------|---------------------|
| ZIPRASIDONE MESYLATE | ARIPIRAZOLE |
| PALIPERIDONE | OLANZAPINE |
| ZIPRASIDONE HCL | RISPERIDONE |
| CLOZAPINE | QUETIAPINE FUMARATE |

Benzodiazepines

| NDC Generic Name | |
|-------------------------|----------------|
| ALPRAZOLAM | FLURAZEPAM HCL |
| CHLORDIAZEPOXIDE | LORAZEPAM |
| CLOBAZAM | MIDAZOLAM |
| CLONAZEPAM | OXAZEPAM |
| CLORAZEPATE DIPOTASSIUM | QUAZEPAM |
| DIAZEPAM | TEMAZEPAM |
| ESTAZOLAM | TRIAZOLAM |

Serotonin–norepinephrine reuptake inhibitor

| NDC Generic Name | |
|--------------------------|---------------------|
| DESVENLAFAXINE | DULOXETINE HCL |
| DESVENLAFAXINE FUMARATE | VENLAFAXINE HCL |
| DESVENLAFAXINE SUCCINATE | LEVOMILNACIPRAN HCL |

Selective serotonin reuptake inhibitor

| NDC Generic Name | |
|---------------------------|---|
| PAROXETINE MESYLATE | CITALOPRAM HYDROBROMIDE |
| FLUOXETINE | FLUOXETINE HCL |
| OLANZAPINE/FLUOXETINE HCL | SERTRALINE HCL |
| FLUVOXAMINE MALEATE | FLUOXETINE HCL/DIETARY SUPPLEMENT NO.17 |
| ESCITALOPRAM OXALATE | FLUOXETINE HCL/DIETARY SUPPLEMENT NO.8 |
| PAROXETINE HCL | VILAZODONE HCL |

Tricyclic antidepressants

| NDC Generic Name | |
|------------------------------------|--------------------------------|
| PROTRIPTYLINE HCL | DESIPRAMINE HCL |
| IMIPRAMINE PAMOATE | PERPHENAZINE/AMITRIPTYLINE HCL |
| TRIMIPRAMINE MALEATE | NORTRIPTYLINE HCL |
| AMITRIPTYLINE HCL/CHLORDIAZEPOXIDE | IMIPRAMINE HCL |
| AMOXAPINE | DOXEPIN HCL |
| CLOMIPRAMINE HCL | AMITRIPTYLINE HCL |

Typical antipsychotics

| NDC Generic Name | |
|------------------------|--------------------------------|
| FLUPHENAZINE ENANTHATE | THIOTHIXENE |
| LOXAPINE | FLUPHENAZINE HCL |
| PIMOZIDE | PERPHENAZINE/AMITRIPTYLINE HCL |

Appendix A Comedications

| | |
|------------------------|---------------------|
| MESORIDAZINE BESYLATE | TRIFLUOPERAZINE HCL |
| MOLINDONE HCL | CHLORPROMAZINE HCL |
| THIOTHIXENE HCL | HALOPERIDOL |
| FLUPHENAZINE DECANOATE | THIORIDAZINE HCL |
| PERPHENAZINE | |

Anticoagulants

| NDC Generic Name | |
|--|--|
| APIXABAN | HEPARIN SODIUM,PORCINE IN 0.9 % SODIUM CHLORIDE |
| DABIGATRAN ETEXILATE MESYLATE | HEPARIN SODIUM,PORCINE IN 0.9 % SODIUM CHLORIDE/PF |
| DALTEPARIN SODIUM,PORCINE | HEPARIN SODIUM,PORCINE/DEXTROSE 5 % IN WATER |
| EDOXABAN TOSYLATE | HEPARIN SODIUM,PORCINE/DEXTROSE 5 % IN WATER/PF |
| ENOXAPARIN SODIUM | HEPARIN SODIUM,PORCINE/PF |
| FONDAPARINUX SODIUM | RIVAROXABAN |
| HEPARIN SODIUM,BEEF | TINZAPARIN SODIUM,PORCINE |
| HEPARIN SODIUM,PORCINE | WARFARIN SODIUM |
| HEPARIN SODIUM,PORCINE IN 0.45 % SODIUM CHLORIDE | |

Antiplatelet agents

| NDC Generic Name | |
|---|---|
| ABCIXIMAB | CILOSTAZOL |
| ASPIRIN | CINNAMEDRINE HCL/ASPIRIN/CAFFEINE |
| ASPIRIN (CALCIUM CARB & MAGNESIUM BUFFERS)/PRAVASTATIN | CLOPIDOGREL BISULFATE |
| ASPIRIN/ACETAMINOPHEN | CODEINE PHOSPHATE/BUTALBITAL/ASPIRIN/CAFFEINE |
| ASPIRIN/ACETAMINOPHEN/CAFFEINE | CODEINE PHOSPHATE/CARISOPRODOL/ASPIRIN |
| ASPIRIN/ACETAMINOPHEN/CAFFEINE/CALCIUM | CODEINE/ASPIRIN/SALICYLAMIDE/ACETAMINOPHEN/CAFFEINE |
| ASPIRIN/ACETAMINOPHEN/CAFFEINE/POTASSIUM | DIHYDROCODEINE BITARTRATE/ASPIRIN/CAFFEINE |
| ASPIRIN/ACETAMINOPHEN/CALCIUM CARBONATE | DIHYDROCODEINE/ASPIRIN/CAFFEINE |
| ASPIRIN/ACETAMINOPHEN/MAGNESIUM/ALUMINUM HYDROXIDE/CAFFEINE | DIPYRIDAMOLE |
| ASPIRIN/CAFFEINE | EPHEDRINE/ASPIRIN/ACETANILIDE/CAFFEINE |
| ASPIRIN/CALCIUM CARBONATE | HYDROCODONE BITARTRATE/ASPIRIN |
| ASPIRIN/CALCIUM CARBONATE/MAGNESIUM | METHOCARBAMOL/ASPIRIN |
| ASPIRIN/CALCIUM CARBONATE/MAGNESIUM/ALUMINUM HYDROXIDE | ORPHENADRINE CITRATE/ASPIRIN/CAFFEINE |
| ASPIRIN/CODEINE PHOSPHATE | OXYCODONE HCL/ASPIRIN |
| ASPIRIN/DIPHENHYDRAMINE CITRATE | OXYCODONE HCL/OXYCODONE TEREPHTHALATE/ASPIRIN |
| ASPIRIN/DIPHENHYDRAMINE HCL | OXYCODONE/ASPIRIN |
| ASPIRIN/DIPHENHYDRAMINE/SODIUM BICARBONATE/CITRIC ACID | PENTAZOCINE HCL/ASPIRIN |
| ASPIRIN/DIPYRIDAMOLE | PHENYLEPHRINE HCL/ASPIRIN |
| ASPIRIN/MAGNESIUM CARBONATE/DIHYDROXYALUMINUM AMINOACETAT | PHENYLPROPANOLAMINE BITARTRATE/ASPIRIN |
| ASPIRIN/MAGNESIUM HYDROXIDE/ALUMINUM HYDROXIDE | PHENYLPROPANOLAMINE BITARTRATE/ASPIRIN/CHLORPHENIRAMINE |
| ASPIRIN/MAGNESIUM HYDROXIDE/ALUMINUM HYDROXIDE/CAFFEINE | PHENYLPROPANOLAMINE HCL/ASPIRIN |
| ASPIRIN/MEPROBAMATE | PHENYLPROPANOLAMINE HCL/ASPIRIN/CHLORPHENIRAMINE |
| ASPIRIN/SALICYLAMIDE/ACETAMINOPHEN/CAFFEINE | PHENYLPROPANOLAMINE HCL/ASPIRIN/CHLORPHENIRAMINE/CAFFEINE |
| ASPIRIN/SALICYLAMIDE/CAFFEINE | PHENYLPROPANOLAMINE HCL/ASPIRIN/DIPHENHYDRAMINE |
| ASPIRIN/SODIUM BICARBONATE/CITRIC ACID | PRASUGREL HCL |
| BUTALBITAL/ASPIRIN/CAFFEINE | PROPOXYPHENE HCL/ASPIRIN/CAFFEINE |
| CARISOPRODOL/ASPIRIN | PSEUDOEPHEDRINE HCL/ASPIRIN/CHLORPHENIRAMINE |
| CHLORPHENIRAMINE MAL/PHENYLEPHRINE/D-METHORPHAN HB/ASPIRIN | TICAGRELOR |
| CHLORPHENIRAMINE MALEATE/PHENYLEPHRINE BITARTRATE/ASPIRIN | VORAPAXAR SULFATE |
| NDC Brand Name | |
| ARTHRITIS PAIN | BAYER ASPIRIN |
| ARTHRITIS PAIN FORMULA | BAYER ASPIRIN MAXIMUM |
| ARTHRITIS PAIN FORMULA A-F | ECOTRIN |
| ARTHRITIS PAIN RELIEF | ECOTRIN MAXIMUM STRENGTH |
| ARTHRITIS PAIN RELIEVER | MAPAP ARTHRITIS PAIN |
| BAYER ARTHRITIS PAIN REGIMEN | PLAVIX |

Angiotensin II Receptor Blockers

| NDC Generic Name | |
|---|--|
| ALISKIREN/VALSARTAN | LOSARTAN POTASSIUM |
| AMLODIPINE BESYLATE/OLMESARTAN MEDOXOMIL | LOSARTAN POTASSIUM/HYDROCHLOROTHIAZIDE |
| AMLODIPINE BESYLATE/VALSARTAN | OLMESARTAN MEDOXOMIL |
| AMLODIPINE BESYLATE/VALSARTAN/HYDROCHLOROTHIAZIDE | OLMESARTAN MEDOXOMIL/AMLODIPINE BESYLATE/HYDROCHLOROTHIAZIDE |
| AZILSARTAN MEDOXOMIL | OLMESARTAN MEDOXOMIL/HYDROCHLOROTHIAZIDE |
| AZILSARTAN MEDOXOMIL/CHLORHALIDONE | TELMISARTAN |
| CANDESARTAN CILEXETIL | TELMISARTAN/AMLODIPINE BESYLATE |
| CANDESARTAN CILEXETIL/HYDROCHLOROTHIAZIDE | TELMISARTAN/HYDROCHLOROTHIAZIDE |
| IRBESARTAN | VALSARTAN |

Appendix A
Comedications

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|--------------------------------|--------------------------------|
| IRBESARTAN/HYDROCHLOROTHIAZIDE | VALSARTAN/HYDROCHLOROTHIAZIDE |
| NDC Brand Name | |
| AMLODIPINE-VALSARTAN | EXFORGE HCT |
| ATACAND | HYZAAR |
| ATACAND HCT | IRBESARTAN |
| AVALIDE | IRBESARTAN-HYDROCHLOROTHIAZIDE |
| AVAPRO | LOSARTAN POTASSIUM |
| AZOR | LOSARTAN-HYDROCHLOROTHIAZIDE |
| BENICAR | MICARDIS |
| BENICAR HCT | MICARDIS HCT |
| CANDESARTAN CILEXETIL | TELMISARTAN |
| CANDESARTAN-HYDROCHLOROTHIAZID | TELMISARTAN-AMLODIPINE |
| COZAAR | TELMISARTAN-HYDROCHLOROTHIAZID |
| DIOVAN | TRIBENZOR |
| DIOVAN HCT | TWYNSTA |
| EDARBI | VALSARTAN |
| EDARBYCLOR | VALSARTAN-HYDROCHLOROTHIAZIDE |
| EXFORGE | VALTURNA |

Angiotensin Converting Enzyme inhibitors

| | |
|---------------------------------------|-----------------------------------|
| NDC Generic Name | |
| AMLODIPINE BESYLATE/BENAZEPRIL HCL | LISINAPRIL |
| BENAZEPRIL HCL | LISINAPRIL/HYDROCHLOROTHIAZIDE |
| BENAZEPRIL HCL/HYDROCHLOROTHIAZIDE | MOEXIPRIL HCL |
| CAPTOPRIL | MOEXIPRIL HCL/HYDROCHLOROTHIAZIDE |
| CAPTOPRIL/HYDROCHLOROTHIAZIDE | PERINDOPRIL ERBUMINE |
| ENALAPRIL MALEATE | QUINAPRIL HCL |
| ENALAPRIL MALEATE/FELODIPINE | QUINAPRIL HCL/HYDROCHLOROTHIAZIDE |
| ENALAPRIL MALEATE/HYDROCHLOROTHIAZIDE | RAMIPRIL |
| ENALAPRILAT DIHYDRATE | TRANDOLAPRIL |
| FOSINOPRIL SODIUM | TRANDOLAPRIL/VERAPAMIL HCL |
| FOSINOPRIL SODIUM/HYDROCHLOROTHIAZIDE | |
| NDC Brand Name | |
| ACCUPRIL | LOTREL |
| ACCURETIC | LYTENSOPRIL |
| ACEON | LYTENSOPRIL-90 |
| ALTACE | MAVIK |
| AMLODIPINE BESYLATE-BENAZEPRIL | MOEXIPRIL HCL |
| BENAZEPRIL HCL | MOEXIPRIL-HYDROCHLOROTHIAZIDE |
| BENAZEPRIL HCL-HCTZ | MONOPRIL |
| BENAZEPRIL-HYDROCHLOROTHIAZIDE | MONOPRIL HCT |
| CAPOTEN | PERINDOPRIL ERBUMINE |
| CAPOZIDE | PRINIVIL |
| CAPTOPRIL | PRINZIDE |
| CAPTOPRIL-HYDROCHLOROTHIAZIDE | QUINAPRIL |
| CAPTOPRIL/HYDROCHLOROTHIAZIDE | QUINAPRIL HCL |
| ENALAPRIL MALEATE | QUINAPRIL-HYDROCHLOROTHIAZIDE |
| ENALAPRIL MALEATE-HCTZ | QUINARETIC |
| ENALAPRIL MALEATE/HCTZ | RAMIPRIL |
| ENALAPRIL-HYDROCHLOROTHIAZIDE | TARKA |
| ENALAPRILAT | TRANDOLAPRIL |
| EPANED | TRANDOLAPRIL-VERAPAMIL |
| FOSINOPRIL SODIUM | UNIRETIC |
| FOSINOPRIL-HYDROCHLOROTHIAZIDE | UNIVASC |
| LEXCEL | VASERETIC |
| LISINAPRIL | VASOTEC |
| LISINAPRIL-HCTZ | VASOTEC I.V. |
| LISINAPRIL-HYDROCHLOROTHIAZIDE | ZESTORETIC |
| LOTENSIN | ZESTRIL |
| LOTENSIN HCT | |

Beta blockers

| | |
|-------------------------|--|
| NDC Generic Name | |
| ACEBUTOLOL HCL | ESMOLOL HCL |
| ATENOLOL | LABETALOL HCL |
| ATENOLOL/CHLORTHALIDONE | METOPROLOL SUCCINATE |
| BETAXOLOL HCL | METOPROLOL SUCCINATE/HYDROCHLOROTHIAZIDE |
| BISOPROLOL FUMARATE | METOPROLOL TARTRATE |

Appendix A
Comedications

| | |
|---|---|
| BISOPROLOL FUMARATE/HYDROCHLOROTHIAZIDE | METOPROLOL TARTRATE/HYDROCHLOROTHIAZIDE |
| BRIMONIDINE TARTRATE/TIMOLOL MALEATE | NEBIVOLOL HCL |
| CARTEOLOL HCL | SOTALOL HCL |
| CARVEDILOL | TIMOLOL |
| CARVEDILOL PHOSPHATE | TIMOLOL MALEATE |
| DORZOLAMIDE HCL/TIMOLOL MALEATE | TIMOLOL MALEATE/HYDROCHLOROTHIAZIDE |
| DORZOLAMIDE HCL/TIMOLOL MALEATE/PF | TIMOLOL MALEATE/PF |
| NDC Brand Name | |
| ACEBUTOLOL HCL | ISTALOL |
| ATENOLOL | KERLONE |
| ATENOLOL W/CHLORTHALIDONE | LABETALOL HCL |
| ATENOLOL-CHLORTHALIDONE | LOPRESSOR |
| BETAPACE | LOPRESSOR HCT |
| BETAPACE AF | METOPROLOL SUCCINATE |
| BETAXOLOL HCL | METOPROLOL TARTRATE |
| BETIMOL | METOPROLOL-HYDROCHLOROTHIAZIDE |
| BETOPTIC | NORMODYNE |
| BETOPTIC S | OCUPRESS |
| BISOPROLOL FUMARATE | SECTRAL |
| BISOPROLOL FUMARATE-HCTZ | SENORMIN |
| BISOPROLOL FUMARATE/HCTZ | SORINE |
| BISOPROLOL-HYDROCHLOROTHIAZIDE | SOTALOL |
| BLOCADREN | SOTALOL AF |
| BREVIBLOC | SOTALOL HCL |
| BYSTOLIC | TENORETIC 100 |
| CARTEOLOL HCL | TENORETIC 50 |
| CARTROL | TENORMIN |
| CARVEDILOL | TENORMIN CALENDAR PAK |
| COMBIGAN | TIMOLIDE |
| COREG | TIMOLOL MALEATE |
| COREG CR | TIMOPTIC |
| COSOPT | TIMOPTIC OCUDOSE |
| COSOPT PF | TIMOPTIC-XE |
| DORZOLAMIDE-TIMOLOL | TOPROL XL |
| DUTOPROL | TRANDATE |
| ESMOLOL HCL | ZEBETA |
| HYPERTENSOLOL | ZIAC |

Calcium channel blockers

HCPCS

C9248

NDC Generic Name

| | |
|---|--|
| ALISKIREN HEMIFUMARATE/AMLODIPINE BESYLATE | BEPRIDIL HCL |
| ALISKIREN HEMIFUMARATE/AMLODIPINE/HYDROCHLOROTHIAZIDE | CLEVIDIPINE BUTYRATE |
| AMLODIPINE BESYLATE | DILTIAZEM HCL |
| AMLODIPINE BESYLATE/ATORVASTATIN CALCIUM | DILTIAZEM HCL IN 0.9 % SODIUM CHLORIDE |
| AMLODIPINE BESYLATE/BENAZEPRIL HCL | DILTIAZEM HCL/DEXTROSE 5 % IN WATER |
| AMLODIPINE BESYLATE/OLMESARTAN MEDOXOMIL | DILTIAZEM MALATE |
| AMLODIPINE BESYLATE/VALSARTAN | ENALAPRIL MALEATE/FELODIPINE |
| AMLODIPINE BESYLATE/VALSARTAN/HYDROCHLOROTHIAZIDE | |

NDC Brand Name

| | |
|--------------------------------|---------------------|
| ADALAT | ISOPTIN |
| ADALAT CC | ISOPTIN SR |
| AFEDITAB CR | ISRADIPINE |
| AMLODIPINE BESILATE | LEXCEL |
| AMLODIPINE BESYLATE | LOTREL |
| AMLODIPINE BESYLATE-BENAZEPRIL | MATZIM LA |
| AMLODIPINE-ATORVASTATIN | NICARDIPINE HCL |
| AMLODIPINE-VALSARTAN | NICARDIPINE HCL-D5W |
| AMTURNIDE | NIFEDIAC CC |
| AZOR | NIFEDICAL XL |
| CADUET | NIFEDIPINE |
| CALAN | NIFEDIPINE ER |
| CALAN SR | NIFEDIPINE XL |
| CARDENE | NIMODIPINE |
| CARDENE I.V. | NIMOTOP |
| CARDENE SR | NISOLDIPINE |
| CARDIZEM | NORVASC |

Appendix A Comedications

| | |
|-------------------|------------------------|
| CARDIZEM CD | NYMALIZE |
| CARDIZEM LA | PLENDIL |
| CARDIZEM SR | POSICOR |
| CARTIA XT | PROCARDIA |
| CLEVIPREX | PROCARDIA XL |
| COVERA-HS | SULAR |
| DILACOR XR | TARKA |
| DILT-CD | TAZTIA XT |
| DILT-XR | TEKAMLO |
| DILTIA XT | TELMISARTAN-AMLODIPINE |
| DILTIAZEM 24HR CD | TIAMATE |
| DILTIAZEM 24HR ER | TIAZAC |
| DILTIAZEM ER | TRANDOLAPRIL-VERAPAMIL |
| DILTIAZEM HCL | TRIBENZOR |
| DILTIAZEM HCL-NS | TWYNSTA |
| DILTIAZEM XR | VASCOR |
| DILTIAZEM-D5W | VERAPAMIL ER |
| DILTZAC ER | VERAPAMIL ER PM |
| DYNACIRC | VERAPAMIL HCL |
| DYNACIRC CR | VERAPAMIL SR |
| EXFORGE | VERELAN |
| EXFORGE HCT | VERELAN PM |
| FELODIPINE ER | |

Diuretics

| NDC Generic Name | |
|-----------------------------------|---------------------|
| AMILORIDE HCL | HYDROCHLOROTHIAZIDE |
| AMILORIDE HCL/HYDROCHLOROTHIAZIDE | HYDROFLUMETHIAZIDE |
| BENDROFLUMETHIAZIDE | INDAPAMIDE |
| BUMETANIDE | METHYLCLOTHIAZIDE |
| CHLOROTHIAZIDE | METOLAZONE |
| CHLORTHALIDONE | POLYTHIAZIDE |
| EPLERENONE | SPIRONOLACTONE |
| ETHACRYNATE SODIUM | TORSEMIDE |
| ETHACRYNIC ACID | TRIAMTERENE |
| FUROSEMIDE | TRICHLORMETHIAZIDE |

Nitrates

| NDC Generic Name | |
|---------------------------------------|-------------------------------------|
| ISOSORBIDE DINITRATE | NITROGLYCERIN |
| ISOSORBIDE DINITRATE/HYDRA LAZINE HCL | NITROGLYCERIN/DEXTROSE 5 % IN WATER |
| ISOSORBIDE MONONITRATE | RANOLAZINE |
| NDC Brand Name | |
| ANG-O-SPAN | NITRO-TRANS SYSTEM |
| ANGINABID | NITRO-TRANS DERMAL |
| BIDIL | NITRO-TRANS DERMAL SYSTEM |
| CARDABID | NITROBART |
| DEPONIT | NITROCAP |
| DILATRATE-SR | NITROCINE |
| IMDUR | NITROCOT |
| ISD | NITRODISC |
| ISMO | NITROGARD |
| ISO-BID | NITROGLYCERIN |
| ISO-D | NITROGLYCERIN IN D5W |
| ISOCHRON | NITROGLYCERIN PATCH |
| ISODITRATE | NITROGLYCERIN T/R |
| ISONATE | NITROGLYN |
| ISONATE TR | NITROGLYCERIN |
| ISOR-BID | NITROL |
| ISORDIL | NITROLINGUAL |
| ISORDIL TITRADOSE | NITROMED |
| ISOREX-10 | NITROMIST |
| ISOREX-2.5 | NITRONAL |
| ISOREX-5 | NITRONG |
| ISOSORBIDE DINITRATE | NITROQUICK |
| ISOSORBIDE MONONITRATE | NITROREX |
| ISOSORBIDE MONONITRATE ER | NITROSPAN |
| ISOTRATE | NITROSTAT |

Appendix A Comedications

| | |
|--------------------------|-----------------|
| ISOTRATE ER | NITROSTAT IV |
| KENSORBIDE | NITROSTAT SR |
| LEMOTRATE | NITROTAB |
| MI-TRATES 2.5 | NITROTYM |
| MI-TRATES 6.5 | NTG |
| MINITRAN | NTS |
| MONOKET | ONSET-10 |
| N-G-C | ONSET-5 |
| N.T.S. | RANEXA |
| NITREK | RECTIV |
| NITRO | SORATE-2.5 |
| NITRO MAST TIMED RELEASE | SORATE-40 |
| NITRO S.A. | SORATE-5 |
| NITRO T.D. | SORBATE-10 |
| NITRO TRANSDERM | SORBATE-5 |
| NITRO TRANSDERMAL | SORBIDE |
| NITRO-BID | SORBITRATE |
| NITRO-BID IV | SORBITRATE SA |
| NITRO-CAPS TIME DOSE | TRANSDERM-NITRO |
| NITRO-DUR | TRATES |
| NITRO-PAR | TRIDIL |
| NITRO-TD-ACA | WF-NITRO |
| NITRO-TIME | |

Lipid lowering drugs

| NDC Generic Name | |
|---|---|
| AMLODIPINE BESYLATE/ATORVASTATIN CALCIUM | METHYLTETRAHYDROFOLATE GLUCOSAMINE/NIACINAMIDE/CUPRIC & ZN OX |
| ARGININE/NIACIN/YOHIMBE BARK/GINSENG/GNK/DAMIANA/SCHISANDRA | NIACIN |
| ATORVASTATIN CALCIUM | NIACIN (INOSITOL NIACINATE) |
| BETA-CAROTENE(A) W-C & E/NIACINAMIDE/VIT B2/LUT/MIN/GLU-ONE | NIACIN/CAPSAICIN/YOHIMBE BARK/GINSENG/GNK BI EX/DAMIANA/OATS |
| CERAMIDES 1,3,6-11/NIACINAMIDE | NIACIN/LOVASTATIN |
| CERAMIDES 1,3,6-11/NIACINAMIDE/HYALURONIC ACID | NIACIN/SIMVASTATIN |
| CHOLESTYRAMINE | NIACINAMIDE |
| CHOLESTYRAMINE (WITH SUGAR) | NIACINAMIDE ASCORBATE |
| CHOLESTYRAMINE/ASPARTAME | NIACINAMIDE/AZELAIC ACID/ZINC OXIDE/VIT B6/COPPER/FA |
| COLESEVELAM HCL | NIACINAMIDE/RIBOFLAVIN/BETA-CAROTENE(A) W-C & E/MINERALS |
| COLESTIPOL HCL | NIACINAMIDE/VIT B6/VIT C/FA/COPPER/MG CIT/ZN GLUC/ALIP ACID |
| EZETIMIBE | PECTIN/INOSITOL/BIOFLAVONOIDS/NIACIN/SOYBEAN |
| EZETIMIBE/ATORVASTATIN CALCIUM | PITAVASTATIN CALCIUM |
| EZETIMIBE/SIMVASTATIN | POLICOSANOL/INOSITOL NIACINATE/GARLIC |
| FENOFIBRATE | PRAVASTATIN SODIUM |
| FENOFIBRATE NANOCRYSTALLIZED | ROSUVASTATIN CALCIUM |
| FENOFIBRATE,MICRONIZED | SIMVASTATIN |
| FLUVASTATIN SODIUM | SITAGLIPTIN PHOSPHATE/SIMVASTATIN |
| FOLIC ACID/NIACINAMIDE/CUPRIC OXIDE/ZINC OXIDE | THIAMINE HCL/RIBOFLAVIN/NIACINAMIDE/CYANOCOBALAMIN/PROTEASE |
| FOLIC ACID/NIACINAMIDE/ZINC | THIAMINE HCL/RIBOFLAVIN/NIACINAMIDE/DEXPANTHENOL/PYRIDOXINE |
| GEMFIBROZIL | THIAMINE M.NIT/RIBOFLAVIN/NIACIN/CA PANTOTHENATE/B6/B12/C/FA |
| INOSITOL NIACINATE | THIAMINE/RIBOFLAVIN/NIACIN/CA PANTOTHENATE/B6/B12/VIT C/FA |
| IRON FUMARATE & POLYSAC COMP/FOLIC ACID/VITAMIN C/NIACIN | THIAMINE/RIBOFLAVIN/NIACIN/CA PANTOTHENATE/VIT B6/B12/IRON |
| IRON FUMARATE & POLYSAC COMP/VITAMIN C/NIACIN | THIAMINE/RIBOFLAVIN/NIACIN/PANT ACID/B6/IRON/METHION/CHOLINE |
| IRON PYROPHOSPHATE/CYANOCOBALAMIN/FA/NIACIN/PYRIDOXINE HCL | VIT B2/NIACINAMIDE/PYRIDOXINE HCL/CYANOCOBALAMIN/D-PANTHENOL |
| LECITHIN/SITOSTEROLS/NIACIN/BETAINE/CHITOSAN | VIT C/PYRIDOXINE HCL/NIACIN/FA/VIT B12/HERBAL COMPLEX NO.192 |
| LOVASTATIN | VITAMIN B COMPLEX NO.12/NIACINAMIDE |
| LYSINE HCL/NIACINAMIDE/THIAMINE | VITAMIN B COMPLEX/NIACINAMIDE/PANTOTHENIC ACID/HERBAL DRUGS |
| MELATONIN/TRYPHTOPHAN/VALERIAN/CHAMOMILE/NIACIN/INOSITOL/B6 | |

Non-insulin diabetes medications

| NDC Generic Name | |
|--------------------------------------|-------------------------------------|
| ACARBOSE | MIGLITOL |
| ACETOHEXAMIDE | NATEGLINIDE |
| ALOGLIPTIN BENZOATE | PIOGLITAZONE HCL |
| ALOGLIPTIN BENZOATE/METFORMIN HCL | PIOGLITAZONE HCL/GLIMEPIRIDE |
| ALOGLIPTIN BENZOATE/PIOGLITAZONE HCL | PIOGLITAZONE HCL/METFORMIN HCL |
| CANAGLIFLOZIN/METFORMIN HCL | REPAGLINIDE |
| CHLORPROPAMIDE | REPAGLINIDE/METFORMIN HCL |
| GLIMEPIRIDE | ROSIGLITAZONE MALEATE |
| GLIPIZIDE | ROSIGLITAZONE MALEATE/GLIMEPIRIDE |
| GLIPIZIDE/METFORMIN HCL | ROSIGLITAZONE MALEATE/METFORMIN HCL |

Appendix A
Comedications

| | |
|--|-------------------------------------|
| GLYBURIDE | SAXAGLIPTIN HCL |
| GLYBURIDE/METFORMIN HCL | SAXAGLIPTIN HCL/METFORMIN HCL |
| LINAGLIPTIN | SITAGLIPTIN PHOSPHATE |
| LINAGLIPTIN/METFORMIN HCL | SITAGLIPTIN PHOSPHATE/METFORMIN HCL |
| METFORMIN HCL | SITAGLIPTIN PHOSPHATE/SIMVASTATIN |
| METFORMIN/AMINO ACIDS COMB. #7/HERBAL COMB.#125/CHOLINE | TOLAZAMIDE |
| METFORMIN/CAFFEINE/AMINO ACIDS#7/HERBAL COMB#125/CHOLINE BIT | TOLBUTAMIDE |
| NDC Brand Name | |
| ACARBOSE | ICN-TOLAM |
| ACETOHEXAMIDE | INSULASE |
| ACTOPLUS MET | INVOKAMET |
| ACTOPLUS MET XR | JANUMET |
| ACTOS | JANUMET XR |
| AMARYL | JANUVIA |
| APPFORMIN | JENTADUETO |
| APPFORMIN-D | JUVISYNC |
| AVANDAMET | KAZANO |
| AVANDARYL | KOMBIGLYZE XR |
| AVANDIA | METAGLIP |
| CHLORABETIC 250 | METFORMIN HCL |
| CHLORPROPAMIDE | METFORMIN HCL ER |
| DIABETA | MICRONASE |
| DIABINESE | NATEGLINIDE |
| DIBATROL | NESINA |
| DUETACT | ONGLYZA |
| DYMELOR | ORIBETIC |
| FORTAMET | ORINASE |
| GLIMEPIRIDE | OSENI |
| GLIPIZIDE | PIOGLITAZONE HCL |
| GLIPIZIDE ER | PIOGLITAZONE-GLIMEPIRIDE |
| GLIPIZIDE XL | PIOGLITAZONE-METFORMIN |
| GLIPIZIDE-METFORMIN | PRANDIMET |
| GLUCAMIDE | PRANDIN |
| GLUCOPHAGE | PRECOSE |
| GLUCOPHAGE XR | REPAGLINIDE |
| GLUCOTROL | RIOMET |
| GLUCOTROL XL | RONASE |
| GLUCOVANCE | SK-TOLBUTAMIDE |
| GLUMETZA | STARLIX |
| GLYBURIDE | TOLAMIDE |
| GLYBURIDE MICRONIZED | TOLAZAMIDE |
| GLYBURIDE-METFORMIN HCL | TOLBUTAMIDE |
| GLYCRON | TOLINASE |
| GLYNASE | TRADJENTA |
| GLYSET | |

Insulin

HCPCS

| | |
|---|-------------------------------|
| A4230 | S5553 |
| A4231 | S5560 |
| A4232 | S5561 |
| A9274 | S5566 |
| E0784 | S5570 |
| J1815 | S5571 |
| J1817 | S8490 |
| S5550 | S9145 |
| S5551 | S9353 |
| S5552 | |
| NDC Generic Name | |
| INSULIN ASPART | INSULIN NPH HUMAN SEMI-SYN |
| INSULIN ASPART PROTAMINE HUMAN/INSULIN ASPART | INSULIN REG HUMAN SEMI-SYN |
| INSULIN DETEMIR | INSULIN ZINC BEEF |
| INSULIN GLULISINE | INSULIN ZINC EXTEND HUMAN REC |
| INSULIN LISPRO | INSULIN ZINC HUMAN REC |
| INSULIN LISPRO PROTAMINE & INSULIN LISPRO | INSULIN ZINC HUMAN SEMI-SYN |
| NDC Brand Name | |
| APIDRA | INSULIN LENTE PURIFIED PORK |
| APIDRA SOLOSTAR | INSULIN N PURIFIED PORK |

Appendix A
Comedications

| | |
|-----------------------------|--------------------------------|
| EXUBERA COMBINATION PACK 12 | INSULIN NPH BEEF |
| EXUBERA COMBINATION PACK 15 | INSULIN NPH PURIFIED PORK |
| EXUBERA KIT | INSULIN R PORK PURIFIED |
| EXUBERA PATIENT PACK | INSULIN R PURIFIED PORK |
| HUMALOG | INSULIN REGULAR PORK |
| HUMALOG MIX 50-50 | INSULIN REGULAR PURIFIED PORK |
| HUMALOG MIX 50/50 | ISOPHANE INSULIN BEEF |
| HUMALOG MIX 75-25 | ISOPHANE PURIFIED BEEF INSULIN |
| HUMULIN 50-50 | LANTUS |
| HUMULIN 70-30 | LANTUS SOLOSTAR |
| HUMULIN 70/30 | LENTE INSULIN BEEF |
| HUMULIN 70/30 KWIKPEN | LEVEMIR |
| HUMULIN BR | LEVEMIR FLEXPEN |
| HUMULIN L | LEVEMIR FLEXTOUCH |
| HUMULIN N | MONOTARD HUMAN LENTE |
| HUMULIN N KWIKPEN | NOVOLIN 70-30 |
| HUMULIN R | NOVOLIN 70-30 INNOLET |
| HUMULIN U | NOVOLIN 70/30 |
| ILETIN I LENTE | NOVOLIN L |
| ILETIN I NPH | NOVOLIN N |
| ILETIN I REGULAR | NOVOLIN N INNOLET |
| ILETIN I SEMILENTE | NOVOLIN R |
| ILETIN I ULTRALENTE | NOVOLOG |
| ILETIN II LENTE(BEEF) | NOVOLOG FLEXPEN |
| ILETIN II LENTE(PORK) | NOVOLOG MIX 70-30 |
| ILETIN II NPH(BEEF) | NOVOLOG MIX 70-30 FLEXPEN |
| ILETIN II NPH(PORK) | PROTAMINE ZINC INSULIN BEEF |
| ILETIN II REGULAR(BEEF) | PURIFIED BEEF INSULIN ZINC |
| ILETIN II REGULAR(PORK) | PURIFIED PORK INSULIN |
| ILETIN II REGULAR(PORK)CONC | VELOSULIN HUMAN |
| INSULATARD HUMAN N | VELOSULIN HUMAN BR |
| INSULATARD N | VELOSULIN HUMAN R |
| INSULATARD NPH HUMAN | VELOSULIN R |
| INSULIN L PURIFIED PORK | ZINC |
| INSULIN LENTE BEEF | |

Antidepressants

| HCPCS | |
|---|--|
| J1320 | |
| NDC Generic Name | |
| AMITRIPTYLINE HCL | IMIPRAMINE HCL |
| AMITRIPTYLINE HCL/CHLORDIAZEPOXIDE | IMIPRAMINE PAMOATE |
| AMOXAPINE | ISOCARBOXAZID |
| BUPROPION HBR | LEVOMILNACIPRAN HYDROCHLORIDE |
| BUPROPION HCL | MAPROTIline HCL |
| BUPROPION HCL/DIETARY SUPPLEMENT,MISC COMB15 | MIRTAZAPINE |
| BUPROPION HCL/DIETARY SUPPLEMENT,MISC COMB16 | NEFAZODONE HCL |
| CITALOPRAM HYDROBROMIDE | NORTRIPTYLINE HCL |
| CLOMIPRAMINE HCL | OLANZAPINE/FLUOXETINE HCL |
| DESIPRAMINE HCL | PAROXETINE HCL |
| DESVENLAFAXINE | PAROXETINE MESYLATE |
| DESVENLAFAXINE FUMARATE | PERPHENAZINE/AMITRIPTYLINE HCL |
| DESVENLAFAXINE SUCCINATE | PHENELZINE SULFATE |
| DOXEPIN HCL | PROTRIPTYLINE HCL |
| DULOXETINE HCL | SERTRALINE HCL |
| ESCITALOPRAM OXALATE | TRAZODONE HCL |
| FLUOXETINE | TRAZODONE HCL/DIETARY SUPPLEMENT,MISC.COMB08 |
| FLUOXETINE HCL | TRIMIPRAMINE MALEATE |
| FLUOXETINE HCL/DIETARY SUPPLEMENT,MISC COMB17 | VENLAFAXINE HCL |
| FLUOXETINE HCL/DIETARY SUPPLEMENT,MISC.COMB08 | VILAZODONE HYDROCHLORIDE |
| FLUVOXAMINE MALEATE | VORTIOXETINE HYDROBROMIDE |
| NDC Brand Name | |
| ADAPIN | LIMBITROL DS |
| AMITID | LUDIOMIL |
| AMITRIPTYLINE HCL | LUVOX |
| AMITRIPTYLINE W/PERPHENAZINE | LUVOX CR |
| AMITRIPTYLINE-CHLORDIAZEPOXIDE | MAPROTIline HCL |
| AMITRIPTYLINE-PERPHENAZINE | MARPLAN |

Appendix A
Comedications

| | |
|--------------------------------|----------------------------|
| AMITRIPTYLINE/CHLORDIAZEPOXIDE | MIRTAZAPINE |
| AMOXAPINE | MIRTAZAPINE ANHYDROUS |
| ANAFRANIL | NARDIL |
| APLENZIN | NEFAZODONE HCL |
| APPBUTAMONE | NORFRANIL |
| APPBUTAMONE-D | NORPRAMIN |
| ASENDIN | NORTRIPTYLINE HCL |
| AVENTYL HCL | OLANZAPINE-FLUOXETINE HCL |
| BRINTELLIX | OLEPTRO ER |
| BRISDELLE | PAMELOR |
| BUDEPRION SR | PAROXETINE HCL |
| BUDEPRION XL | PAXIL |
| BUPROBAN | PAXIL CR |
| BUPROPION HCL | PER-TRIP |
| BUPROPION HCL ER | PERPHENAZINE-AMITRIPTYLINE |
| BUPROPION HCL SR | PEXEVA |
| BUPROPION XL | PHENELZINE SULFATE |
| CELEXA | PRISTIQ ER |
| CHLORDIAZEPOXIDE-AMITRIPTYLINE | PROTRIPTYLINE HCL |
| CITALOPRAM | PROZAC |
| CITALOPRAM HBR | PROZAC WEEKLY |
| CLOMIPRAMINE HCL | PRUDOXIN |
| CYMBALTA | Q.E.L |
| DECONIL | RAPIFLUX |
| DESIPRAMINE HCL | RE-LIVE |
| DESVENLAFAXINE ER | REMERON |
| DESVENLAFAXINE FUMARATE ER | SARAFEM |
| DESYREL | SELFEMRA |
| DOXEPIN HCL | SENTROXATINE |
| DULOXETINE HCL | SERTRALINE HCL |
| E-VILL 10 | SERZONE |
| E-VILL 100 | SILENOR |
| E-VILL 25 | SINEQUAN |
| E-VILL 50 | SK-AMITRIPTYLINE |
| E-VILL 75 | SK-PRAMINE |
| EFFEXOR | STABANIL |
| EFFEXOR XR | SURMONTIL |
| ELAVIL | SYMBYAX |
| EMITRIP | TOFRANIL |
| ENDEP | TOFRANIL-PM |
| ENOVIL | TRAZAMINE |
| ESCITALOPRAM OXALATE | TRAZODONE HCL |
| ETNOFRIL | TRIAVIL 10-2 |
| ETRAFON 2-10 | TRIAVIL 2-10 |
| ETRAFON 2-25 | TRIAVIL 2-25 |
| ETRAFON A 4-10 | TRIAVIL 25-2 |
| ETRAFON FORTE 4-25 | TRIAVIL 25-4 |
| FETZIMA | TRIAVIL 4-10 |
| FLUOXETINE DR | TRIAVIL 4-25 |
| FLUOXETINE HCL | TRIAVIL 4-50 |
| FLUVOXAMINE MALEATE | TRIMIPRAMINE MALEATE |
| FLUVOXAMINE MALEATE ER | VANATRIP |
| FORFIVO XL | VENLAFAXINE HCL |
| GABOXETINE | VENLAFAXINE HCL ER |
| IMAVATE | VIIBRYD |
| IMIPRAMINE HCL | VIVACTIL |
| IMIPRAMINE PAMOATE | WELLBUTRIN |
| JANIMINE | WELLBUTRIN SR |
| KENVIL | WELLBUTRIN XL |
| KHEDEZLA | ZOLOFT |
| LEXAPRO | ZONALON |
| LIMBITROL | ZYBAN |

Appendix A Nonbiologics

Adalimumab

This measure categorizes the number of biologic DMARDs into the following categories:

0: Up to 1.0 (exclusive). This is the referent category

1: From 1.0 (inclusive) to 2.0 (exclusive).

2: From 2.0 (inclusive) to 2.0 (exclusive).

2: From 2.0 (inclusive) to 3.0 (exclusive).

>=3: From 3.0 (inclusive) to (any)

| | |
|-------------------------|--|
| NDC Brand Name | |
| HUMIRA | |
| NDC Generic Name | |
| ADALIMUMAB | |
| HCPCS | |
| J0135 | |

Certolizumab pegol

| | |
|-------------------------|-------|
| NDC Brand Name | |
| CIMZIA | |
| NDC Generic Name | |
| CERTOLIZUMAB PEGOL | |
| HCPCS | |
| C9249 | J0718 |
| J0717 | |

Etanercept

| | |
|-------------------------|--|
| NDC Brand Name | |
| ENBREL | |
| NDC Generic Name | |
| ETANERCEPT | |
| HCPCS | |
| J1438 | |

Etanercept

| | |
|-------------------------|--|
| NDC Brand Name | |
| SIMPONI | |
| SIMPONI ARIA | |
| NDC Generic Name | |
| GOLIMUMAB | |
| HCPCS | |
| J1602 | |

Infliximab

| | |
|-------------------------|--|
| NDC Brand Name | |
| REMICADE | |
| NDC Generic Name | |
| INFLIXIMAB | |
| HCPCS | |
| J1745 | |

Abatacept

| | |
|-----------------------|--|
| NDC Brand Name | |
| ORENCIA | |

Appendix A
Nonbiologics

| | |
|-------------------------|-------------------|
| NDC Generic Name | |
| ABATACEPT | ABATACEPT/MALTOSE |
| HPCPS | |
| C9230 | J0129 |

Tocilizumab

| | |
|-------------------------|-------|
| NDC Brand Name | |
| ACTEMRA | |
| NDC Generic Name | |
| TOCILIZUMAB | |
| HPCPS | |
| C9264 | J3262 |

Tofacitinib

This measure categorizes the number of nonbiologic DMARDs into the following categories:

0: Up to 1.0 (exclusive). This is the referent category

1: From 1.0 (inclusive) to 2.0 (exclusive).

2: From 2.0 (inclusive) to 2.0 (exclusive).

2: From 2.0 (inclusive) to 3.0 (exclusive).

>=3: From 3.0 (inclusive) to (any)

| | |
|-------------------------|--|
| NDC Brand Name | |
| XELJANZ | |
| NDC Generic Name | |
| TOFACITINIB CITRATE | |

Auranofin

| | |
|-------------------------|-------------|
| NDC Brand Name | |
| RIDAURA | |
| NDC Generic Name | |
| AURANOFIN | |
| NDC Drug Code | |
| 00007487918 | 63032001160 |
| 65483009306 | |

Azathioprine

| | |
|-------------------------|---------------------|
| NDC Brand Name | |
| AZASAN | AZATHIOPRINE SODIUM |
| AZATHIOPRINE | IMURAN |
| NDC Generic Name | |
| AZATHIOPRINE | AZATHIOPRINE SODIUM |

Cyclophosphamide

| | |
|------------------------------|----------------------|
| NDC Brand Name | |
| CYCLOPHOSPHAMIDE | CYTOXAN LYOPHILIZED |
| CYCLOPHOSPHAMIDE MONOHYDRATE | NEOSAR |
| CYTOXAN | NEOSAR FOR INJECTION |
| NDC Generic Name | |
| CYCLOPHOSPHAMIDE | |

Cyclosporine

| | |
|-------------------------|------------------------|
| NDC Brand Name | |
| CYCLOSPORINE | RESTASIS |
| CYCLOSPORINE MODIFIED | SANDIMMUNE |
| GENGRAF | SANGCYA |
| NEORAL | |
| NDC Generic Name | |
| CYCLOSPORINE | CYCLOSPORINE, MODIFIED |

Appendix A
Nonbiologics

Gold sodium thiomalate

| | |
|-------------------------|-------------|
| NDC Brand Name | |
| AUROLATE | MYOCHRYSINE |
| GOLD SODIUM THIOMALATE | |
| NDC Generic Name | |
| GOLD SODIUM THIOMALATE | |
| HCPCS | |
| J1600 | |

Leflunomide

| | |
|-------------------------|-------------|
| NDC Brand Name | |
| ARAVA | LEFLUNOMIDE |
| NDC Generic Name | |
| LEFLUNOMIDE | |

Sulfasalazine

| | |
|-------------------------|------------------|
| NDC Brand Name | |
| AZULFIDINE | SULFASALAZINE DR |
| S.A.S.-500 | SULFAZINE |
| SULFA DYNE | SULFAZINE EC |
| SULFASALAZINE | |
| NDC Generic Name | |
| SULFASALAZINE | |

Hydroxychloroquine

| | |
|-------------------------|------------------|
| NDC Brand Name | |
| AZULFIDINE | SULFASALAZINE DR |
| S.A.S.-500 | SULFAZINE |
| SULFA DYNE | SULFAZINE EC |
| SULFASALAZINE | |
| NDC Generic Name | |
| SULFASALAZINE | |

Methotrexate

| | |
|--------------------------------|------------------------|
| NDC Brand Name | |
| ABITREXATE | MEXATE |
| FOLEX PFS | MEXATE-AQ |
| FOLEX-PFS | OTREXUP |
| METHOTREXATE | RASUVO |
| METHOTREXATE LPF | RHEUMATREX |
| METHOTREXATE SODIUM | TREXALL |
| METHOTREXATE SODIUM PARENTERAL | |
| NDC Generic Name | |
| METHOTREXATE | METHOTREXATE SODIUM/PF |
| METHOTREXATE SODIUM | METHOTREXATE/PF |
| HCPCS | |
| J8610 | J9260 |
| J9250 | |

NSAIDs and Coxibs

| | |
|-------------------------|------------|
| NDC Generic Name | |
| CELECOXIB | NABUMETONE |
| DIFLUNISAL | NAPROXEN |
| ETODOLAC | OXAPROZIN |
| FLURBIPROFEN | PIROXICAM |
| IBUPROFEN | ROFECOXIB |
| INDOMETHACIN | SULINDAC |
| KETOPROFEN | VALDECOXIB |
| MELOXICAM | |

Appendix A
Nonbiologics

Opioids

| NDC Brand Name | |
|--------------------------------|--------------------------|
| A-COF DH | LIQUIHISTINE CS |
| ABC COMPOUND W/CODEINE #3 | LORCET |
| ABER-TUSS HC | LORCET 10-650 |
| ABSTRAL | LORCET 10/650 |
| ACAHISTINE | LORCET HD |
| ACETA W/CODEINE | LORCET PLUS |
| ACETAMINOPH-CAFF-DIHYDROCODEIN | LORCIDE |
| ACETAMINOPHEN W-CODEINE | LORTAB |
| ACETAMINOPHEN W/CODEINE | LORTAB ASA |
| ACETAMINOPHEN-CODEINE | LORTUSS EX |
| ACTAGEN-C | LORTUSS HC |
| ACTIFED WITH CODEINE | LYNOX |
| ACTIQ | M-CLEAR |
| ADOL | M-CLEAR JR |
| AIRACOF | M-CLEAR WC |
| ALA-HIST AC | M-END |
| ALAHIST DHC | M-END MAX |
| ALCET | M-END MAX D |
| ALLAY | M-END PE |
| ALLERFRIM W/CODEINE | M-END WC |
| ALLFEN CD | M-GESIC |
| ALLFEN CDX | M-TUSS |
| ALOR | MAGNACET |
| ALPHEN | MAR-COF BP |
| AMACODONE | MAR-COF CG |
| AMAPHEN W/CODEINE NO.3 | MARCOF |
| AMBENYL | MARGESIC |
| AMBI 5/15/100 | MARGESIC COMPOUND |
| AMBIFED CD | MARGESIC H |
| AMBIFED CDX | MARGESIC IMPROVED |
| AMBIFED-G CD | MAX HC |
| AMBIFED-G CDX | MAXI-TUSS HC |
| AMBOPHEN | MAXI-TUSS HCG |
| AMGENAL | MAXI-TUSS HCX |
| AN-ABATE | MAXIDONE |
| ANACIN-3 W/CODEINE | MAXIFED CD |
| ANACIN-3 WITH CODEINE | MAXIFED CDX |
| ANAPLEX HD | MAXIFED-G CD |
| ANATUSS W/CODEINE | MAXIFED-G CDX |
| ANEXSIA | MAXIFLU CD |
| ANODYNOS-DHC | MAXIFLU CDX |
| ANOLOR DH-5 | MAXIPHEN CD |
| APOKYN | MAXIPHEN CDX |
| APOMORPHINE HCL | MAXITUSS HC |
| ASA-BUTALB-CAFFEINE-CODEINE | MC COUGH |
| ASCOMP W/CODEINE # 3 | MC JR COUGH |
| ASCOMP WITH CODEINE | MED-HIST |
| ASPIRIN W/CODEINE | MED-HIST-HC |
| ASPIRIN WITH CODEINE | MEDCODIN |
| ASPIRIN-CAFFEINE-DIHYDROCODEIN | MEDICAP HD |
| ASTRAMORPH-PF | MEDIPAIN 5 |
| ATROPINE W/DEMOROL | MEDTUSS HD |
| ATUSS EX | MEGAGESIC |
| ATUSS G | MEGAMOR |
| ATUSS HC | MEPERGAN |
| ATUSS HD | MEPERGAN FORTIS |
| ATUSS HS | MEPERIDINE HCL |
| ATUSS HX | MEPERIDINE HCL-0.9% NACL |
| ATUSS MR | MEPERIDINE HCL-NS |
| ATUSS MS | MEPERIDINE HCL/NS |

Appendix A
Nonbiologics

| | |
|--------------------------------|-------------------------------|
| ATUSS NX | MEPERIDINE W/PROMETHAZINE |
| AVINZA | MEPERIDINE-PROMETHAZINE |
| AZDONE | MEPERITAB |
| B-TUSS | MEPROZINE |
| BALACET 325 | MESEHIST WC |
| BALTUSSIN | MI-CODE |
| BALTUSSIN HC | MI-DECON |
| BANCAP HC | MINTEX HC |
| BAYCOMINE | MINTUSS EX |
| BAYCOMINE PEDIATRIC | MINTUSS G |
| BAYHISTINE | MINTUSS HC |
| BEXOPHENE | MINTUSS HD |
| BIOTUSSIN AC | MINTUSS MR |
| BIOTUSSIN DAC | MINTUSS MS |
| BIPHETANE-DC | MINTUSS NX |
| BITEX | MONTE-G HC |
| BPM PE HC | MONTEFLU HC |
| BROM-CORT-DC | MORPHINE SULF/D5W |
| BROMANATE DC | MORPHINE SULF/NS |
| BROMANATE-DC | MORPHINE SULFATE |
| BROMANYL | MORPHINE SULFATE CONCENTRATE |
| BROMAREST DC | MORPHINE SULFATE CR |
| BROMATANE-DC | MORPHINE SULFATE ER |
| BROMCOMP HC | MORPHINE SULFATE IN DEXTROSE |
| BROMODIPHENHYDRAMINE HCL | MORPHINE SULFATE INJECTION |
| BROMODIPHENHYDRAMINE W/CODEINE | MORPHINE SULFATE SELECT-A-JET |
| BROMOTUSS W/CODEINE | MORPHINE SULFATE-0.9% NACL |
| BROMPHEN-DC | MORPHINE SULFATE-D5W |
| BROMPHENEX HD | MORPHINE SULFATE/D5W |
| BROMPHENIRAMINE DC | MORPHINE SULFATE/NS |
| BROMPHENIRAMINE-DC | MS CONTIN |
| BROMPHENIRAMINE-DC W/CODEINE | MS/L |
| BROMPHENIRAMINE-HYDROCOD-PSE | MS/S |
| BROMPLEX HD | MSIR |
| BRON-TUSS | MULTI-HIST CS |
| BRONKISAN A/C | MYBANIL |
| BRONTEX | MYCI-GC |
| BROVEX CB | MYGRANOL W/CODEINE #3 |
| BROVEX CBX | MYHYDROMINE |
| BROVEX HC | MYHYDROMINE PEDIATRIC |
| BROVEX PB C | MYPHETANE DC |
| BROVEX PB CX | MYTUSSIN AC |
| BUTALB-ACETAMINOPH-CAFF-CODEIN | MYTUSSIN DAC |
| BUTALB-CAFF-ACETAMINOPH-CODEIN | NALDECON-CX ADULT |
| BUTALBITAL COMPOUND W/CODEINE | NALEX |
| BUTALBITAL COMPOUND-CODEINE | NALEX AC |
| BUTALBITAL-CAFF-APAP-CODEINE | NALEX DH |
| BUTALBITAL/CAFF/APAP/CODEINE | NARCOF |
| BUTINAL W/CODEINE #3 | NARIZ HC |
| C-TUSSIN | NARVOX |
| CALCIDRINE | NASATUSS |
| CALCIUM IODIDE W/CODEINE | NASOTUSS |
| CANGES-HC | NAZARIN HC |
| CANGES-HC NR | NEO AC |
| CANGES-XP | NEO HC |
| CAPCOF | NORCET |
| CAPITAL W-CODEINE | NORCET 7.5MG |
| CAPITAL W/CODEINE | NORCO |
| CARISOPRODOL COMPOUND-CODEINE | NOTUSS |
| CARISOPRODOL-ASPIRIN-CODEINE | NOTUSS AC |
| CENTUSSIN DHC | NOTUSS DC |
| CETA-PLUS | NOTUSS PD |

Appendix A
Nonbiologics

| | |
|--------------------------------|------------------------------|
| CGU WC | NOTUSS-FORTE |
| CHEMDAL | NOTUSS-NX |
| CHEMERGAN W/CODEINE | NOTUSS-NXD |
| CHERACOL | NOTUSS-PE |
| CHERATUSSIN AC | NOVADYNE |
| CHERATUSSIN DAC | NOVADYNE DH |
| CHLORPHEN HD | NOVAGEST |
| CHLORPHENIRAMINE-CODEINE | NOVAGEST DH |
| CLEARTUSS DH | NOVAHISTINE |
| CO-GESIC | NOVAHISTINE DH |
| CO-HISTINE | NOVASUS |
| CO-HISTINE DH | NUCOCHEM |
| COASTALDYNE | NUCODINE SYR |
| COCET | NUCOFED |
| COCET PLUS | NUCOTUSS |
| CODACA NO.3 | NUDAL-HD |
| CODACA NO.4 | NUMORPHAN |
| CODAFED | OMS |
| CODAL-DH | ONCET |
| CODAMINE | ONCET 5 |
| CODAMINE PEDIATRIC | ONCET 7 |
| CODAPHEN | ONSOLIS |
| CODAR AR | OPANA |
| CODAR D | OPANA ER |
| CODAR GF | ORAMORPH SR |
| CODEFEN | ORGADIN-TUSS |
| CODEGEST | OXECTA |
| CODEINE COUGH SYRUP | OXYCODONE CONCENTRATE |
| CODEINE PHOSPHATE | OXYCODONE HCL |
| CODEINE SULFATE | OXYCODONE HCL ER |
| CODEINE-GUAIFENESIN | OXYCODONE HCL-ACETAMINOPHEN |
| CODEINE/PHENYLPROP/GUAIFENESIN | OXYCODONE HCL-ASPIRIN |
| CODEMINE | OXYCODONE HCL-IBUPROFEN |
| CODICLEAR DH | OXYCODONE HYDROCHLORIDE |
| CODIMAL DH | OXYCODONE W/ACETAMINOPHEN |
| CODIMAL PH | OXYCODONE W/ASPIRIN |
| CODITUSS DH | OXYCODONE W/ASPIRIN HALF-STR |
| CODOTUSS | OXYCODONE-ACETAMINOPHEN |
| COLDCOUGH | OXYCODONE-ASPIRIN |
| COLDCOUGH EXP | OXYCODONE/APAP |
| COLDCOUGH HC | OXYCONTIN |
| COLDCOUGH HCM | OXYFAST |
| COLDCOUGH PD | OXYIR |
| COLDCOUGH XP | OXYMORPHONE HCL |
| COLDTUSS | OXYMORPHONE HCL ER |
| COLREX COMPOUND | P-EPD HCL/HCOD BT/CARBINOX |
| COMBUNOX | P-EPHED HCL/HYDROCOD BIT/CP |
| COMTUSSIN HC | P-TUSS |
| CONDASIN | P-TUSS D |
| CONEX W/CODEINE | P-V-TUSSIN |
| CONZIP | PALLADONE |
| COPAN | PANACET |
| COPHENE XP | PANADOL W/CODEINE NO.3 |
| COPHENE-S | PANADOL W/CODEINE NO.4 |
| CORDRON-HC | PANASAL |
| COTAB A | PANCET |
| COTAB AX | PANCOF |
| COTABFLU | PANCOF EXP |
| COTUSS EX | PANCOF HC |
| COTUSS HD | PANCOF PD |
| COTUSS MS | PANCOF XP |
| COTUSS-V | PANLOR |

Appendix A
Nonbiologics

| | |
|--------------------------|--------------------------------|
| COUGHTUSS | PANLOR DC |
| CPB WC | PANLOR SS |
| CRANTEX HC | PAPA-DEINE NO.4 |
| CYCOFED | PC-CAP |
| CYNDAL | PEDIACOF |
| CYTUSS HC | PEDIATEX HC |
| CYTUSS-HC | PEDITUSS |
| D-TANN HC | PERCOCET |
| DAMASON-P | PERCODAN |
| DARVOCET A500 | PERCODAN DEMI |
| DARVOCET-N 100 | PERCOLONE |
| DARVOCET-N 50 | PERLOXX |
| DARVON | PHANATUSS HC |
| DARVON COMPOUND | PHEN/CHLOR HC |
| DARVON COMPOUND 32 | PHENA-HC |
| DARVON COMPOUND-65 | PHENAPHEN W/CODEINE |
| DARVON-N | PHENDACOF HC |
| DAZIDOX | PHENDACOF PLUS |
| DE-CHLOR G | PHENERGAN VC W/CODEINE |
| DE-CHLOR HC | PHENERGAN VC WITH CODEINE |
| DE-CHLOR HD | PHENERGAN W/CODEINE |
| DE-CHLOR MR | PHENERGAN WITH CODEINE |
| DE-CHLOR NX | PHENFLU CD |
| DECOHISTINE | PHENFLU CDX |
| DECOHISTINE DH | PHENHIST |
| DECONAMINE CX | PHENYLCODONE PEDIATRIC |
| DECONGEST | PHENYLEPH-HCOD BT-CP |
| DECTUSS C | PHENYLEPHRINE HD |
| DELHISTINE CS | PHENYLHISTINE |
| DEMEROL | PHENYLHISTINE DH |
| DEPODUR | PHENYLPROP/COD/BR-PHENIRAMINE |
| DESPEC-EXP | PHENYLPROPANOLAMINE DC |
| DESPEC-PD | PHENYLPROPANOLAMINE/HYDROCODON |
| DESPEC-PDC | PHRENILIN W/CAFFEINE & CODEINE |
| DETUSS | PHRENILIN-CAFFEINE-CODEINE |
| DETUSSIN | PLURATUSS |
| DEX-TUSS | PNAP |
| DEXPHEN W-C | PNEUMOTUSSIN |
| DIABETIC TUSSIN C | PNEUMOTUSSIN HC |
| DIHIST DH | POLY CS |
| DIHISTINE | POLY HIST DHC |
| DIHISTINE DH | POLY HIST HC |
| DIHYDRO-CP | POLY HIST NC |
| DIHYDRO-GP | POLY-CS |
| DIHYDRO-PE | POLY-HISTINE |
| DIHYDROCODEINE COMP MOD | POLY-HISTINE CS |
| DIHYDROCODEINE COMPOUND | POLY-TUSSIN |
| DIHYDROCODEINE-BPM-PE | POLY-TUSSIN AC |
| DIHYDROXCODEINE COMPOUND | POLY-TUSSIN D |
| DILAUDID | POLY-TUSSIN DHC |
| DILAUDID STRIP PACKS | POLY-TUSSIN EX |
| DILAUDID-5 | POLY-TUSSIN HD |
| DILAUDID-HP | POLY-TUSSIN XP |
| DIMETANE-DC | POLYGESIC |
| DOLACET | POLYTINE CS |
| DOLAGESIC | POT GUAIACO-HYDROCODONE BIT |
| DOLENE | PP-CAP |
| DOLENE AP-65 | PRIMALEV |
| DOLENE COMPOUND-65 | PRIMLEV |
| DOLFEN | PRO POX 65 |
| DOLO PAP | PRO-CLEAR |
| DOLO-PAP | PRO-CLEAR AC |

Appendix A
Nonbiologics

| | |
|-------------------------|--------------------------------|
| DOLOREX FORTE | PRO-CLEAR CAPS |
| DOLPHEN | PRO-COF |
| DONATUSS DC | PRO-COF D |
| DONATUSSIN DC | PRO-RED |
| DONATUSSIN MAX | PRO-RED AC |
| DORAPHEN-65 | PROCET |
| DOXAPAP N-100 | PROLEX DH |
| DRITUSS HD | PROMETHAZINE VC W/CODEINE |
| DROCON-CS | PROMETHAZINE VC-CODEINE |
| DROTUSS | PROMETHAZINE W/CODEINE |
| DROTUSS-CP | PROMETHAZINE-CODEINE |
| DUOCET | PROPACET |
| DUOHIST DH | PROPACHEM |
| DURADAL | PROPACHEM PEDIATRIC |
| DURADAL HD | PROPAIN HC |
| DURADAL HD PLUS | PROPOXACET-N 100 |
| DURADYNE DHC | PROPOXYPHENE HCL |
| DURAGANIDIN NR | PROPOXYPHENE HCL COMPOUND |
| DURAGESIC | PROPOXYPHENE HCL W/APAP |
| DURAMORPH | PROPOXYPHENE HCL-ACETAMINOPHEN |
| DURATUSS HD | PROPOXYPHENE NAP-ACETAMINOPHEN |
| DYNATUSS DF | PROPOXYPHENE NAPSYLATE |
| DYNATUSS HC | PROPOXYPHENE NAPSYLATE W/APAP |
| DYNATUSS HCG | PROPOXYPHENE NAPSYLATE-APAP |
| DYNEX HD | PROTEX |
| DYTAN-HC | PROTEX D |
| E-LOR | PROTUSS |
| ED TUSS HC | PROTUSS-D |
| ED-TLC | PROVAL NO.3 |
| EFASIN | PSE BPM HD |
| EFASIN-HD | PSEUDATEX HC |
| EMBEDA | PSEUDOEPHEDRINE W/CODEINE |
| EMCODEINE NO.3 | PSEUDOEPHEDRINE W/HYDROCODONE |
| EMCODEINE NO.4 | PSEUDOEPHEDRINE-CODEINE |
| EMPIRIN W/CODEINE | Q-V TUSSIN |
| EMPRACET W/CODEINE NO.3 | QUAL-TUSSIN DC |
| EMPRACET W/CODEINE NO.4 | QUALA-HC |
| ENDACOF | QUINDAL |
| ENDACOF AC | QUINDAL-HD |
| ENDACOF-C | QUINTEX HC |
| ENDACOF-DC | RELACON-HC |
| ENDACOF-DH | RELACON-HC NR |
| ENDACOF-HC | RELASIN HC |
| ENDACOF-PLUS | RELASIN-HCX |
| ENDACOF-XP | RELATUSS HC |
| ENDAGEN-HD | RELCOF C |
| ENDAL | REPREXAIN |
| ENDAL CD | RESCUDOSE |
| ENDAL HD | REX-A-HIST |
| ENDAL-HD | REZIRA |
| ENDAL-HD PLUS | RHINACON DH |
| ENDOCET | RID-A-PAIN W/CODEINE |
| ENDOCODONE | RINDAL HD |
| ENDODAN | RINDAL HD PLUS |
| ENDOTUSS | RINDAL HPD |
| ENPLUS-HD | RMS-SUPPOSITORY |
| ENTEX HC | RO-CET-N 100 |
| ENTUSS | ROBAFEN AC |
| ENTUSS-D | ROBAFEN-DAC |
| ESGIC W/CODEINE | ROBICHEM AC |
| ETH-OXYDOSE | ROBITUSSIN A-C |
| EXALGO | ROBITUSSIN-DAC |

Appendix A
Nonbiologics

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|--------------------------------|------------------------------|
| EXCOF | ROGESIC #3 |
| EXCOF-SF | ROMILAR AC |
| EXECLAR | ROXANOL |
| EXECLAR-C | ROXANOL SR |
| EXECOF-XP | ROXANOL UD |
| EXETUSS-HC | ROXANOL-T |
| EXTENDRYL HC | ROXICET |
| FARBITAL W/CODEINE #3 | ROXICODONE |
| FEBRIDYNE | ROXICODONE INTENSOL |
| FENTANYL | ROXIPRIN |
| FENTANYL BASE | RYBIX ODT |
| FENTANYL CITRATE | RYDEX |
| FENTANYL CITRATE-0.9% NACL | RYNA-C |
| FENTANYL CITRATE-D5W | RYNA-CX |
| FENTANYL CITRATE-NS | RYZOLT |
| FENTANYL CITRATE/NS | S-T FORTE 2 |
| FENTANYL ORALET | SENEFEN III |
| FENTANYL W/DROPERIDOL | SIMUC-HD |
| FENTANYL WITH DROPERIDOL | SINODEINE |
| FENTANYL-BUPIVACAINE-NS | SK-65 |
| FENTANYL-ROPIVACAINE-NS | SK-65 APAP |
| FENTANYL/NS | SK-65 COMPOUND |
| FENTORA | SK-APAP W/CODEINE |
| FENTUSS | SK-OXYCODONE W/ACETAMINOPHEN |
| FIORICET W/CODEINE | SK-OXYCODONE W/ASPIRIN |
| FIORICET WITH CODEINE | SOMA COMPOUND W/CODEINE |
| FIORINAL W/CODEINE #3 | SOMA COMPOUND WITH CODEINE |
| FIORINAL WITH CODEINE #3 | SPEN-HISTINE |
| FIORMOR W/CODEINE #3 | STAGESIC |
| FIORTAL W/CODEINE #3 | STAGESIC-10 |
| FLUTUSS HC | STATUSS |
| FLUTUSS XP | STATUSS GREEN |
| G-TUSS | STERAPHEN W/CODEINE |
| GANI-TUSS NR | STOPAYNE |
| GECIL | SU-TUSS HD |
| GENAGESIC | SUBLIMAZE |
| GENECOF-HC | SUBSYS |
| GENECOF-XP | SUDATUSS-2 |
| GENTEX HC | SUDATUSS-SF |
| GESIC-5 | SUTTAR-2 |
| GESIC-HD | SUTTAR-SF |
| GESTUSS-HC | SYMTAN |
| GILTUSS HC | SYMTAN A |
| GILTUSS PED-C | SYNALGOS-DC |
| GLYDEINE | SYNGESIC DC |
| GUA C | SYNGESIC-DC |
| GUA PC | T-GESIC |
| GUAIIATUSSIN AC | T-GESIC FORTE |
| GUAIFEN-C | THERACODOPHEN-325 |
| GUAIFENESIN A.C. | THERACODOPHEN-650 |
| GUAIFENESIN AC | THERACODOPHEN-LOW-90 |
| GUAIFENESIN DAC | THERATRAMADOL-60 |
| GUAIFENESIN NR | THERATRAMADOL-90 |
| GUAIFENESIN W-CODEINE | TL-HIST CD |
| GUAIFENESIN W/CODEINE | TL-HIST CM |
| GUAIFENESIN-CODEINE | TOURO HC |
| GUAIFENESIN-P-EPHEDRINE-COD | TRAMADOL HCL |
| GUAIFENESIN-PHENYLEPHRINE-HCOD | TRAMADOL HCL ER |
| GUAIFENESIN/CODEINE PHOSPHATE | TRAMADOL HCL-ACETAMINOPHEN |
| GUAIFENESIN/P-EPHED HCL/HCOD | TREZIX |
| GUAIFENESIN/P-EPHEDRINE/COD | TRI-VENT HC |
| GUAITUSSIN AC | TRIACIN C |

Appendix A
Nonbiologics

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|-------------------------------|------------------------------|
| GUAIUSSIN DAC | TRIACIN-C |
| GUAL-CO | TRIAFED WITH CODEINE |
| GUAPETEX HC | TRIAMINIC DH |
| GUIADEX DH | TRIAMINIC W/CODEINE |
| GUIAOLEX HC | TRIAANT-HC |
| GUIATUSS AC | TRICODE AR |
| GUIATUSS DAC | TRICODE GF |
| GUIATUSSIN DAC | TRICODENE W/CODEINE |
| GUIATUSSIN W/CODEINE | TRICOF |
| H-C TUSSIVE | TRICOF EXP |
| H-C TUSSIVE-D | TRICOF PD |
| HALOTUSSIN AC | TRIDAL |
| HALOTUSSIN-AC | TRIDAL HD |
| HALOTUSSIN-DAC | TRIDAL HD PLUS |
| HBA | TRIFED-C |
| HC TUSSIVE-D | TRIHIST-CS |
| HC-GUAI | TRIPOSED W/CODEINE |
| HC-PE-DBROM | TRIPROLIDINE-C |
| HIST-HC | TRIPROLIDINE/P-EPHED/CODEINE |
| HIST-PLUS | TRITUSSIN |
| HISTAFED-C | TRYCET |
| HISTEX HC | TRYMINE CG |
| HISTINEX HC | TUSANA-D |
| HISTINEX PV | TUSDEC-HC |
| HISTUSS HC | TUSNEL C |
| HISTUSSIN D | TUSNEL PED-C |
| HISTUSSIN HC | TUSNEL-HC |
| HPB MAX | TUSS-AX |
| HPR END | TUSS-DS |
| HY-5 | TUSS-ES |
| HY-KXP | TUSS-HC |
| HY-PHEN | TUSS-PD |
| HYCET | TUSS-S |
| HYCO-PAP | TUSSADUR-HD |
| HYCODAN | TUSSAFED-HC |
| HYCODAPHEN | TUSSAFED-HCG |
| HYCOFED | TUSSAR-2 |
| HYCOGESIC | TUSSCOUGH DHC |
| HYCOMAL DH | TUSSCOUGH HC |
| HYCOMED | TUSSEND |
| HYCOMINE | TUSSHISTINE CS |
| HYCOMINE COMPOUND | TUSSI-ORGANIDIN NR |
| HYCOPHEN | TUSSI-ORGANIDIN-S NR |
| HYCOSIN | TUSSICAPS |
| HYCOTAB | TUSSICLEAR DH |
| HYCOTUSS | TUSSIDEN C |
| HYDEX PD | TUSSIDIN NR |
| HYDONE | TUSSIGON |
| HYDRO GP | TUSSIN AC |
| HYDRO PC II | TUSSINAL 12 |
| HYDRO PRO | TUSSINATE |
| HYDRO PRO D | TUSSIONEX |
| HYDRO-DP | TUSSIREX |
| HYDRO-PC | TUSSIVE HC |
| HYDRO-PC II PLUS | TUSSO-C |
| HYDRO-PROPANOLAMINE PEDIATRIC | TUSSO-DF |
| HYDRO-TUSS | TUSSO-HC |
| HYDRO-TUSSIN DHC | TUSSPLEX |
| HYDRO-TUSSIN EXP | TY-PAP W/CODEINE |
| HYDRO-TUSSIN HC | TY-TAB W/CODEINE |
| HYDRO-TUSSIN HD | TYLAGESIC 3 |
| HYDRO-TUSSIN HG | TYLENOL W/CODEINE |

Appendix A
Nonbiologics

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|--------------------------------|------------------------|
| HYDRO-TUSSIN XP | TYLENOL W/CODEINE NO.2 |
| HYDROCET | TYLENOL W/CODEINE NO.3 |
| HYDROCOD BIT-PHENYLEPHRINE-CP | TYLENOL W/CODEINE NO.4 |
| HYDROCOD-CPM-PSEUDOEPHEDRINE | TYLENOL-CODEINE NO.3 |
| HYDROCOD/CARBINOX/PSEUDOEPHED | TYLENOL-CODEINE NO.4 |
| HYDROCODONE | TYLOX |
| HYDROCODONE BIT-HOMATROPINE MB | UGESIC |
| HYDROCODONE BIT-IBUPROFEN | ULTRACET |
| HYDROCODONE BITARTRATE | ULTRAGESIC |
| HYDROCODONE BT-HOMATROPINE MBR | ULTRAM |
| HYDROCODONE COMPOUND | ULTRAM ER |
| HYDROCODONE CP | UMI-APAP |
| HYDROCODONE GF | UNI MULTIHIST CS |
| HYDROCODONE HD | UNI TUSS HC |
| HYDROCODONE PA | UNI-COF |
| HYDROCODONE W-ACETAMINOPHEN | UNI-COF EXP |
| HYDROCODONE W/ACETAMINOPHEN | UNI-LEV |
| HYDROCODONE W/GUAIFENESIN | UNI-TRICOF HC |
| HYDROCODONE W/PHENYLPROP | VANACET |
| HYDROCODONE-ACETAMINOPHEN | VANACOF CD |
| HYDROCODONE-GUAIFENESIN | VANACON |
| HYDROCODONE-HOMATROPINE | VANEX GRAPE |
| HYDROCODONE-HOMATROPINE MBR | VANEX HD |
| HYDROCODONE-IBUPROFEN | VAZOTUSS HC |
| HYDROCODONE-POT GUAIAICOSULFON | VENDONE |
| HYDROCODONE/ACETAMINOPHEN | VERDROCET |
| HYDROCODONE/HOMATROPINE | VI-Q-TUSS |
| HYDROCODONE/PHENYLEPH/PYRILAM | VICOCLEAR DH |
| HYDROCODONE/PHENYLPROPANOLAMIN | VICODIN |
| HYDROCOF-HC | VICODIN ES |
| HYDROFED | VICODIN HP |
| HYDROGESIC | VICODIN TUSS |
| HYDROMET | VICOPROFEN |
| HYDROMINE | VIHISTINE |
| HYDROMINE PEDIATRIC | VIRTUSSIN AC |
| HYDROMORPHONE ER | VISVEX HC |
| HYDROMORPHONE HCL | VITAPAP W/CODEINE |
| HYDROMORPHONE HCL INJECTION | VITUSSIN |
| HYDROMORPHONE HCL-D5W | VITUZ |
| HYDROMORPHONE HCL-NS | VOPAC |
| HYDROMORPHONE HCL/NS | W/W-HISTINE |
| HYDROMORPHONE HYDROCHLORIDE | WELL-TUSS HD |
| HYDROMORPHONE-BUPIVACAINE | WELLTUSS EXP |
| HYDROMORPHONE-BUPIVACAINE-NS | WELLTUSS HC |
| HYDROMORPHONE/BUPIVACAINE | WYGESIC |
| HYDRON CP | XARTEMIS XR |
| HYDRON EX | XODOL 10-300 |
| HYDRON KGS | XODOL 10/300 |
| HYDRON PSC | XODOL 5-300 |
| HYDROPANE | XODOL 7.5-300 |
| HYDROPHEN | XOLOX |
| HYDROPHEN PEDIATRIC | XPECT-HC |
| HYDROPHENE DH | XYLON 10 |
| HYDROSTAT | Z-COF HC |
| HYPHED | Z-COF HXC |
| HYPHEN-HD | Z-TUSS 2 |
| HYTAN | Z-TUSS AC |
| IBUDONE | Z-TUSS E |
| IDENAL W/CODEINE | ZAMICET |
| INFUMORPH | ZERLOR |
| INNOVAR | ZHIST |
| IODAL HD | ZODRYL AC 25 |

Appendix A
Nonbiologics

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| IOFEN-C NF | ZODRYL AC 30 |
| IOPHEN | ZODRYL AC 35 |
| IOPHEN C-NR | ZODRYL AC 40 |
| IOPHEN-C NR | ZODRYL AC 50 |
| IOTUSSIN D | ZODRYL AC 60 |
| IOTUSSIN HC | ZODRYL AC 80 |
| ISOBUTAL W/CODEINE | ZODRYL DAC 25 |
| ISOLIN W/CODEINE | ZODRYL DAC 30 |
| ISOLLYL W/CODEINE | ZODRYL DAC 35 |
| J-CET | ZODRYL DAC 40 |
| J-COF DHC | ZODRYL DAC 50 |
| J-MAX DHC | ZODRYL DAC 60 |
| J-TAN D HC | ZODRYL DAC 80 |
| JAYCOF | ZODRYL DEC 25 |
| JAYCOF-HC | ZODRYL DEC 30 |
| JAYCOF-XP | ZODRYL DEC 35 |
| KADIAN | ZODRYL DEC 40 |
| KG-DAL HD | ZODRYL DEC 50 |
| KG-DAL HD PLUS | ZODRYL DEC 60 |
| KG-FED | ZODRYL DEC 80 |
| KG-FED PEDIATRIC | ZOHYDRO ER |
| KG-TUSS HD | ZOLVIT |
| KG-TUSSIN | ZOTEX-C |
| KGS-HC | ZOTEX-HC |
| KWELCOF | ZTUSS |
| LAZANDA | ZTUSS ZT |
| LEVALL | ZUTRIPRO |
| LEVALL 5.0 | ZYDONE |
| LEXUSS 2.10 | ZYMIINE HC |
| LIQUICET | ZYRPHEN-HC |
| LIQUICOUGH HC | |
| NDC Generic Name | |
| BROMPHENIRAMINE MALEATE/CODEINE PHOSPHATE | MEPERIDINE HCL IN 0.9 % SODIUM CHLORIDE |
| BROMPHENIRAMINE MALEATE/PHENYLEPHRINE HCL/CODEINE | MEPERIDINE HCL/PF |
| BROMPHENIRAMINE MALEATE/PHENYLEPHRINE | MEPERIDINE HCL/PROMETHAZINE HCL |
| BROMPHENIRAMINE MALEATE/PSEUDOEPHEDRINE HCL/CODEINE | MORPHINE SULFATE |
| BROMPHENIRAMINE/PSEUDOEPHEDRINE HCL/DIHYDROCODEINE | MORPHINE SULFATE IN 0.9 % SODIUM CHLORIDE |
| BUTALBITAL/ACETAMINOPHEN/CAFFEINE/CODEINE PHOSPHATE | MORPHINE SULFATE IN 0.9 % SODIUM CHLORIDE/PF |
| CHLORCYCLIZINE HCL/CODEINE PHOSPHATE | MORPHINE SULFATE LIPOSOMAL/PF |
| CHLORCYCLIZINE HCL/PHENYLEPHRINE HCL/CODEINE PHOSPHATE | MORPHINE SULFATE/DEXTROSE 5 % IN WATER |
| CHLORCYCLIZINE HCL/PSEUDOEPHEDRINE HCL/CODEINE | MORPHINE SULFATE/DEXTROSE 5% WATER/PF |
| CHLORPHENIRAMINE MALEATE/CODEINE PHOSPHATE | MORPHINE SULFATE/NALTREXONE HCL |
| CHLORPHENIRAMINE MALEATE/CODEINE | MORPHINE SULFATE/PF |
| CHLORPHENIRAMINE MALEATE/PHENYLEPHRINE HCL/CODEINE | OXYCODONE HCL |
| CHLORPHENIRAMINE MALEATE/PSEUDOEPHEDRINE HCL/CODEINE | OXYCODONE HCL/ACETAMINOPHEN |
| CODEINE PHOSPHATE | OXYCODONE HCL/ASPIRIN |
| CODEINE PHOSPHATE/BUTALBITAL/ASPIRIN/CAFFEINE | OXYCODONE HCL/OXYCODONE TEREPHTHALATE/ASPIRIN |
| CODEINE PHOSPHATE/CARISOPRODOL/ASPIRIN | OXYCODONE/ASPIRIN |
| CODEINE PHOSPHATE/PYRILAMINE MALEATE | OXYMORPHONE HCL |
| CODEINE SULFATE | PHENYLEPHRINE HCL/CODEINE PHOSPHATE |
| CODEINE/ASPIRIN/SALICYLAMIDE/ACETAMINOPHEN/CAFFEINE | PHENYLEPHRINE HCL/CODEINE |
| CODEINE/CALCIUM IODIDE | PHENYLEPHRINE HCL/CODEINE PHOSPHATE/GUAIFENESIN |
| DEXBROMPHENIRAMINE MALEATE/PSEUDOEPHEDRINE | PHENYLEPHRINE |
| DEXCHLORPHENIRAMINE MALEATE/PHENYLEPHRINE | PHENYLEPHRINE HCL/CODEINE/CHLORPHENIRAMINE |
| DIHYDROCODEINE BITARTRATE/ACETAMINOPHEN/CAFFEINE | PHENYLEPHRINE HCL/CODEINE/CHLORPHENIRAMINE/POTASSIUM |
| DIHYDROCODEINE BITARTRATE/ASPIRIN/CAFFEINE | PHENYLEPHRINE HCL/CODEINE/PYRILAMINE |
| DIHYDROCODEINE BITARTRATE/GUAIFENESIN | PHENYLEPHRINE HCL/DIHYDROCODEINE BITARTRATE |
| DIHYDROCODEINE/ASPIRIN/CAFFEINE | PHENYLEPHRINE HCL/DIHYDROCODEINE |
| DIPHENHYDRAMINE HCL/PHENYLEPHRINE HCL/CODEINE | PHENYLEPHRINE HCL/DIHYDROCODEINE |
| FENTANYL | PHENYLEPHRINE HCL/PPA |
| FENTANYL CITRATE | PHENYLEPHRINE TANNATE/HYDROCODONE |
| FENTANYL CITRATE IN 0.9 % SODIUM CHLORIDE/PF | PHENYLEPHRINE/HYDROCODONE |

Appendix A
Nonbiologics

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| FENTANYL CITRATE/BUPIVACAINE HCL IN 0.9 % SODIUM | PHENYLEPHRINE/HYDROCODONE/BROMPHENIRAMINE TANNATES |
| FENTANYL CITRATE/DEXTROSE 5% WATER/PF | PHENYLEPHRINE/HYDROCODONE/DEXCHLORPHENIRAMINE |
| FENTANYL CITRATE/DROPERIDOL | PHENYLPROPANOLAMINE HCL/CODEINE/BROMPHENIRAMINE |
| FENTANYL CITRATE/PF | POTASSIUM GUAICOLSULFONATE/PSEUDOEPHEDRINE |
| FENTANYL CITRATE/ROPIVACAINE HCL/SODIUM CHLORIDE 0.9%/PF | PROMETHAZINE HCL/CODEINE |
| GUAIFENESIN/CODEINE PHOSPHATE | PROMETHAZINE/PHENYLEPHRINE HCL/CODEINE |
| GUAIFENESIN/HYDROCODONE BITARTRATE | PROPOXYPHENE HCL |
| GUAIFENESIN/PHENYLEPHRINE HCL/HYDROCODONE | PROPOXYPHENE HCL/ACETAMINOPHEN |
| GUAIFENESIN/PHENYLPROPANOLAMINE HCL/CODEINE | PROPOXYPHENE HCL/ASPIRIN/CAFFEINE |
| GUAIFENESIN/PHENYLPROPANOLAMINE | PROPOXYPHENE NAPSYLATE |
| GUAIFENESIN/PSEUDOEPHEDRINE HCL/DIHYDROCODEINE | PROPOXYPHENE NAPSYLATE/ACETAMINOPHEN |
| GUAIFENESIN/PSEUDOEPHEDRINE | PSEUDOEPHEDRINE HCL/CODEINE PHOSPHATE |
| HYDROCODONE BITARTRATE | PSEUDOEPHEDRINE HCL/CODEINE |
| HYDROCODONE BITARTRATE/ACETAMINOPHEN | PSEUDOEPHEDRINE HCL/CODEINE PHOSPHATE/GUAIFENESIN |
| HYDROCODONE BITARTRATE/ACETAMINOPHEN/DIETARY | PSEUDOEPHEDRINE HCL/CODEINE PHOSPHATE/TRIPROLIDINE |
| HYDROCODONE BITARTRATE/ASPIRIN | PSEUDOEPHEDRINE HCL/CODEINE/CHLORPHENIRAMINE |
| HYDROCODONE BITARTRATE/CHLORPHENIRAMINE MALEATE | PSEUDOEPHEDRINE HCL/DIHYDROCODEINE |
| HYDROCODONE BITARTRATE/HOMATROPINE METHYLBROMIDE | PSEUDOEPHEDRINE HCL/HYDROCODONE BITARTRATE |
| HYDROCODONE TANNATE/CHLORPHENIRAMINE TANNATE | PSEUDOEPHEDRINE HCL/HYDROCODONE |
| HYDROCODONE/IBUPROFEN | PSEUDOEPHEDRINE TANNATE/HYDROCODONE TANNATE |
| HYDROMORPHONE HCL | PSEUDOEPHEDRINE/HYDROCODONE/BROMPHENIRAMINE |
| HYDROMORPHONE HCL IN 0.9 % SODIUM CHLORIDE | PSEUDOEPHEDRINE/HYDROCODONE/CHLORPHENIRAMINE |
| HYDROMORPHONE HCL IN 0.9 % SODIUM CHLORIDE/PF | PYRILAMINE MALEATE/PHENYLEPHRINE HCL/CODEINE PHOSPHATE |
| HYDROMORPHONE HCL IN DEXTROSE 5 % WATER/PF | PYRILAMINE MALEATE/PHENYLEPHRINE HCL/DIHYDROCODEINE BT |
| HYDROMORPHONE HCL/BUPIVACAINE HCL IN 0.9% SODIUM | PYRILAMINE MALEATE/PSEUDOEPHEDRINE HCL/CODEINE |
| HYDROMORPHONE HCL/PF | TRAMADOL HCL |
| IBUPROFEN/OXYCODONE HCL | TRAMADOL HCL/ACETAMINOPHEN |
| MEPERIDINE HCL | |

Glucocorticoids

| Ingredient code | |
|---------------------------|----------------------|
| P5AR - prednisone | P5BC - dexamethasone |
| P5CB - triamcinolone | P5BB - betamethasone |
| P5AM - methylprednisolone | P5BL - budesonide |
| P5AB - hydrocortisone | P5AH - prednisolone |
| P5AA - cortisone | |

Appendix A
Comorbid conditions

Atrial Fibrillation

| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
|----------|---------|---------------------------------|---------------------|
| 1480 | 42731 | Paroxysmal atrial fibrillation | ATRIAL FIBRILLATION |
| 1481 | | Persistent atrial fibrillation | |
| 1482 | | Chronic atrial fibrillation | |
| 14891 | | Unspecified atrial fibrillation | |

Heart Failure

| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
|----------|---------|--|--|
| I0981 | 39891 | Rheumatic heart failure | RHEUMATIC HEART FAILURE (CONGESTIVE) |
| I110 | 40201 | Hypertensive heart disease with heart failure | MALIGNANT HYPERTENSIVE HEART DISEASE WITH HEART FAILURE |
| I130 | 40211 | Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease | BENIGN HYPERTENSIVE HEART DISEASE WITH HEART FAILURE |
| I132 | 40291 | Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease | UNSPECIFIED HYPERTENSIVE HEART DISEASE WITH HEART FAILURE |
| I501 | 40401 | Left ventricular failure | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE MALIGNANT WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |
| I5020 | 40403 | Unspecified systolic (congestive) heart failure | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE MALIGNANT WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| I5021 | 40411 | Acute systolic (congestive) heart failure | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE BENIGN WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |
| I5022 | 40413 | Chronic systolic (congestive) heart failure | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE BENIGN WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| I5023 | 40491 | Acute on chronic systolic (congestive) heart failure | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE UNSPECIFIED WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |
| I5030 | 40493 | Unspecified diastolic (congestive) heart failure | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE UNSPECIFIED WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| I5031 | 428 | Acute diastolic (congestive) heart failure | HEART FAILURE |
| I5032 | 4280 | Chronic diastolic (congestive) heart failure | CONGESTIVE HEART FAILURE UNSPECIFIED |
| I5033 | 4281 | Acute on chronic diastolic (congestive) heart failure | LEFT HEART FAILURE |
| I5040 | 4282 | Unspecified combined systolic (congestive) and diastolic (congestive) heart failure | SYSTOLIC HEART FAILURE |
| I5041 | 42820 | Acute combined systolic (congestive) and diastolic (congestive) heart failure | UNSPECIFIED SYSTOLIC HEART FAILURE |
| I5042 | 42821 | Chronic combined systolic (congestive) and diastolic (congestive) heart failure | ACUTE SYSTOLIC HEART FAILURE |
| I5043 | 42822 | Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure | CHRONIC SYSTOLIC HEART FAILURE |
| I509 | 42823 | Heart failure, unspecified | ACUTE ON CHRONIC SYSTOLIC HEART FAILURE |

Stroke or TIA

| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
|----------|---------|--|---|
| I6302 | 43301 | Cerebral infarction due to thrombosis of basilar artery | Occlusion and stenosis of basilar artery with cerebral infarction |
| I6312 | 43301 | Cerebral infarction due to embolism of basilar artery | Occlusion and stenosis of basilar artery with cerebral infarction |
| I6322 | 43301 | Cerebral infarction due to unspecified occlusion or stenosis of basilar arteries | Occlusion and stenosis of basilar artery with cerebral infarction |
| I63031 | 43311 | Cerebral infarction due to thrombosis of right carotid artery | Occlusion and stenosis of carotid artery with cerebral infarction |
| I63032 | 43311 | Cerebral infarction due to thrombosis of left carotid artery | Occlusion and stenosis of carotid artery with cerebral infarction |
| I63033 | 43311 | Cerebral infarction due to thrombosis of bilateral carotid arteries | Occlusion and stenosis of carotid artery with cerebral infarction |

Appendix A
Comorbid conditions

| | | | |
|--------|-------|--|--|
| I63039 | 43311 | Cerebral infarction due to thrombosis of unspecified carotid artery | Occlusion and stenosis of carotid artery with cerebral infarction |
| I63131 | 43311 | Cerebral infarction due to embolism of right carotid artery | Occlusion and stenosis of carotid artery with cerebral infarction |
| I63132 | 43311 | Cerebral infarction due to embolism of left carotid artery | Occlusion and stenosis of carotid artery with cerebral infarction |
| I63133 | 43311 | Cerebral infarction due to embolism of bilateral carotid arteries | Occlusion and stenosis of carotid artery with cerebral infarction |
| I63139 | 43311 | Cerebral infarction due to embolism of unspecified carotid artery | Occlusion and stenosis of carotid artery with cerebral infarction |
| I63231 | 43311 | Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries | Occlusion and stenosis of carotid artery with cerebral infarction |
| I63232 | 43311 | Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries | Occlusion and stenosis of carotid artery with cerebral infarction |
| I63233 | 43311 | Cerebral infarction due to unspecified occlusion or stenosis of bilateral carotid arteries | Occlusion and stenosis of carotid artery with cerebral infarction |
| I63239 | 43311 | Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid arteries | Occlusion and stenosis of carotid artery with cerebral infarction |
| I63011 | 43321 | Cerebral infarction due to thrombosis of right vertebral artery | Occlusion and stenosis of vertebral artery with cerebral infarction |
| I63012 | 43321 | Cerebral infarction due to thrombosis of left vertebral artery | Occlusion and stenosis of vertebral artery with cerebral infarction |
| I63013 | 43321 | Cerebral infarction due to thrombosis of bilateral vertebral arteries | Occlusion and stenosis of vertebral artery with cerebral infarction |
| I63019 | 43321 | Cerebral infarction due to thrombosis of unspecified vertebral artery | Occlusion and stenosis of vertebral artery with cerebral infarction |
| I63111 | 43321 | Cerebral infarction due to embolism of right vertebral artery | Occlusion and stenosis of vertebral artery with cerebral infarction |
| I63112 | 43321 | Cerebral infarction due to embolism of left vertebral artery | Occlusion and stenosis of vertebral artery with cerebral infarction |
| I63113 | 43321 | Cerebral infarction due to embolism of bilateral vertebral arteries | Occlusion and stenosis of vertebral artery with cerebral infarction |
| I63119 | 43321 | Cerebral infarction due to embolism of unspecified vertebral artery | Occlusion and stenosis of vertebral artery with cerebral infarction |
| I63211 | 43321 | Cerebral infarction due to unspecified occlusion or stenosis of right vertebral arteries | Occlusion and stenosis of vertebral artery with cerebral infarction |
| I63212 | 43321 | Cerebral infarction due to unspecified occlusion or stenosis of left vertebral arteries | Occlusion and stenosis of vertebral artery with cerebral infarction |
| I63213 | 43321 | Cerebral infarction due to unspecified occlusion or stenosis of bilateral vertebral arteries | Occlusion and stenosis of vertebral artery with cerebral infarction |
| I63219 | 43321 | Cerebral infarction due to unspecified occlusion or stenosis of unspecified vertebral arteries | Occlusion and stenosis of vertebral artery with cerebral infarction |
| I6359 | 43331 | Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery | Occlusion and stenosis of multiple and bilateral precerebral arteries with cerebral infarction |
| I6309 | 43381 | Cerebral infarction due to thrombosis of other precerebral artery | Occlusion and stenosis of other specified precerebral artery with cerebral infarction |
| I6319 | 43381 | Cerebral infarction due to embolism of other precerebral artery | Occlusion and stenosis of other specified precerebral artery with cerebral infarction |
| I6359 | 43381 | Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery | Occlusion and stenosis of other specified precerebral artery with cerebral infarction |
| I6300 | 43391 | Cerebral infarction due to thrombosis of unspecified precerebral artery | Occlusion and stenosis of unspecified precerebral artery with cerebral infarction |
| I6310 | 43391 | Cerebral infarction due to embolism of unspecified precerebral artery | Occlusion and stenosis of unspecified precerebral artery with cerebral infarction |
| I6320 | 43391 | Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral arteries | Occlusion and stenosis of unspecified precerebral artery with cerebral infarction |
| I6329 | 43391 | Cerebral infarction due to unspecified occlusion or stenosis of other precerebral arteries | Occlusion and stenosis of unspecified precerebral artery with cerebral infarction |
| I6330 | 43401 | Cerebral infarction due to thrombosis of unspecified cerebral artery | Cerebral thrombosis with cerebral infarction |
| I63311 | 43401 | Cerebral infarction due to thrombosis of right middle cerebral artery | Cerebral thrombosis with cerebral infarction |

Appendix A
Comorbid conditions

| | | | |
|--------|-------|--|--|
| I63312 | 43401 | Cerebral infarction due to thrombosis of left middle cerebral artery | Cerebral thrombosis with cerebral infarction |
| I63313 | 43401 | Cerebral infarction due to thrombosis of bilateral middle cerebral arteries | Cerebral thrombosis with cerebral infarction |
| I63319 | 43401 | Cerebral infarction due to thrombosis of unspecified middle cerebral artery | Cerebral thrombosis with cerebral infarction |
| I63321 | 43401 | Cerebral infarction due to thrombosis of right anterior cerebral artery | Cerebral thrombosis with cerebral infarction |
| I63322 | 43401 | Cerebral infarction due to thrombosis of left anterior cerebral artery | Cerebral thrombosis with cerebral infarction |
| I63323 | 43401 | Cerebral infarction due to thrombosis of bilateral anterior arteries | Cerebral thrombosis with cerebral infarction |
| I63329 | 43401 | Cerebral infarction due to thrombosis of unspecified anterior cerebral artery | Cerebral thrombosis with cerebral infarction |
| I63331 | 43401 | Cerebral infarction due to thrombosis of right posterior cerebral artery | Cerebral thrombosis with cerebral infarction |
| I63332 | 43401 | Cerebral infarction due to thrombosis of left posterior cerebral artery | Cerebral thrombosis with cerebral infarction |
| I63333 | 43401 | Cerebral infarction to thrombosis of bilateral posterior arteries | Cerebral thrombosis with cerebral infarction |
| I63339 | 43401 | Cerebral infarction due to thrombosis of unspecified posterior cerebral artery | Cerebral thrombosis with cerebral infarction |
| I63341 | 43401 | Cerebral infarction due to thrombosis of right cerebellar artery | Cerebral thrombosis with cerebral infarction |
| I63342 | 43401 | Cerebral infarction due to thrombosis of left cerebellar artery | Cerebral thrombosis with cerebral infarction |
| I63343 | 43401 | Cerebral infarction to thrombosis of bilateral cerebellar arteries | Cerebral thrombosis with cerebral infarction |
| I63349 | 43401 | Cerebral infarction due to thrombosis of unspecified cerebellar artery | Cerebral thrombosis with cerebral infarction |
| I6339 | 43401 | Cerebral infarction due to thrombosis of other cerebral artery | Cerebral thrombosis with cerebral infarction |
| I636 | 43401 | Cerebral infarction due to cerebral venous thrombosis, nonpyogenic | Cerebral thrombosis with cerebral infarction |
| I6340 | 43411 | Cerebral infarction due to embolism of unspecified cerebral artery | Cerebral embolism with cerebral infarction |
| I63411 | 43411 | Cerebral infarction due to embolism of right middle cerebral artery | Cerebral embolism with cerebral infarction |
| I63412 | 43411 | Cerebral infarction due to embolism of left middle cerebral artery | Cerebral embolism with cerebral infarction |
| I63413 | 43411 | Cerebral infarction due to embolism of bilateral middle cerebral arteries | Cerebral embolism with cerebral infarction |
| I63419 | 43411 | Cerebral infarction due to embolism of unspecified middle cerebral artery | Cerebral embolism with cerebral infarction |
| I63421 | 43411 | Cerebral infarction due to embolism of right anterior cerebral artery | Cerebral embolism with cerebral infarction |
| I63422 | 43411 | Cerebral infarction due to embolism of left anterior cerebral artery | Cerebral embolism with cerebral infarction |
| I63423 | 43411 | Cerebral infarction due to embolism of bilateral anterior cerebral arteries | Cerebral embolism with cerebral infarction |
| I63429 | 43411 | Cerebral infarction due to embolism of unspecified anterior cerebral artery | Cerebral embolism with cerebral infarction |
| I63431 | 43411 | Cerebral infarction due to embolism of right posterior cerebral artery | Cerebral embolism with cerebral infarction |
| I63432 | 43411 | Cerebral infarction due to embolism of left posterior cerebral artery | Cerebral embolism with cerebral infarction |
| I63433 | 43411 | Cerebral infarction due to embolism of bilateral posterior cerebral arteries | Cerebral embolism with cerebral infarction |
| I63439 | 43411 | Cerebral infarction due to embolism of unspecified posterior cerebral artery | Cerebral embolism with cerebral infarction |
| I63441 | 43411 | Cerebral infarction due to embolism of right cerebellar artery | Cerebral embolism with cerebral infarction |

Appendix A
Comorbid conditions

| | | | |
|-----------------|----------------|---|---|
| I63442 | 43411 | Cerebral infarction due to embolism of left cerebellar artery | Cerebral embolism with cerebral infarction |
| I63443 | 43411 | Cerebral infarction due to embolism of bilateral cerebellar arteries | Cerebral embolism with cerebral infarction |
| I63449 | 43411 | Cerebral infarction due to embolism of unspecified cerebellar artery | Cerebral embolism with cerebral infarction |
| I6349 | 43411 | Cerebral infarction due to embolism of other cerebral artery | Cerebral embolism with cerebral infarction |
| I6350 | 43491 | Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery | Cerebral artery occlusion, unspecified with cerebral infarction |
| I63511 | 43491 | Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery | Cerebral artery occlusion, unspecified with cerebral infarction |
| I63512 | 43491 | Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery | Cerebral artery occlusion, unspecified with cerebral infarction |
| I63513 | 43491 | Cerebral infarction due to unspecified occlusion or stenosis of bilateral middle arteries | Cerebral artery occlusion, unspecified with cerebral infarction |
| I63519 | 43491 | Cerebral infarction due to unspecified occlusion or stenosis of unspecified middle cerebral artery | Cerebral artery occlusion, unspecified with cerebral infarction |
| I63521 | 43491 | Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery | Cerebral artery occlusion, unspecified with cerebral infarction |
| I63522 | 43491 | Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery | Cerebral artery occlusion, unspecified with cerebral infarction |
| I63523 | 43491 | Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior arteries | Cerebral artery occlusion, unspecified with cerebral infarction |
| I63529 | 43491 | Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery | Cerebral artery occlusion, unspecified with cerebral infarction |
| I63531 | 43491 | Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery | Cerebral artery occlusion, unspecified with cerebral infarction |
| I63532 | 43491 | Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery | Cerebral artery occlusion, unspecified with cerebral infarction |
| I63533 | 43491 | Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior arteries | Cerebral artery occlusion, unspecified with cerebral infarction |
| I63539 | 43491 | Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery | Cerebral artery occlusion, unspecified with cerebral infarction |
| I63541 | 43491 | Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery | Cerebral artery occlusion, unspecified with cerebral infarction |
| I63542 | 43491 | Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery | Cerebral artery occlusion, unspecified with cerebral infarction |
| I63543 | 43491 | Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries | Cerebral artery occlusion, unspecified with cerebral infarction |
| I63549 | 43491 | Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery | Cerebral artery occlusion, unspecified with cerebral infarction |
| I6359 | 43491 | Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery | Cerebral artery occlusion, unspecified with cerebral infarction |
| I638 | 43491 | Other cerebral infarction | Cerebral artery occlusion, unspecified with cerebral infarction |
| I639 | 43491 | Cerebral infarction, unspecified | Cerebral artery occlusion, unspecified with cerebral infarction |
| I6789 | 436 | Other cerebrovascular disease | Acute, but ill-defined, cerebrovascular disease |
| I6781 | 4371 | Acute cerebrovascular insufficiency | Other generalized ischemic cerebrovascular disease |
| I6782 | 4371 | Cerebral ischemia | Other generalized ischemic cerebrovascular disease |
| I6789 | 4371 | Other cerebrovascular disease | Other generalized ischemic cerebrovascular disease |
| I679 | 4379 | Cerebrovascular disease, unspecified | Unspecified cerebrovascular disease |
| ICD10 Dx | ICD9 Dx | LongDesiCD10 | LongDesiCD9 |
| I6000 | 430 | Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation | Subarachnoid hemorrhage |
| I6001 | 430 | Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation | Subarachnoid hemorrhage |
| I6002 | 430 | Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation | Subarachnoid hemorrhage |
| I6010 | 430 | Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery | Subarachnoid hemorrhage |
| I6011 | 430 | Nontraumatic subarachnoid hemorrhage from right middle cerebral artery | Subarachnoid hemorrhage |

Appendix A
Comorbid conditions

| | | | |
|-----------------|----------------|--|--|
| I6012 | 430 | Nontraumatic subarachnoid hemorrhage from left middle cerebral artery | Subarachnoid hemorrhage |
| I602 | 430 | Nontraumatic subarachnoid hemorrhage from anterior communicating artery | Subarachnoid hemorrhage |
| I6030 | 430 | Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating artery | Subarachnoid hemorrhage |
| I6031 | 430 | Nontraumatic subarachnoid hemorrhage from right posterior communicating artery | Subarachnoid hemorrhage |
| I6032 | 430 | Nontraumatic subarachnoid hemorrhage from left posterior communicating artery | Subarachnoid hemorrhage |
| I604 | 430 | Nontraumatic subarachnoid hemorrhage from basilar artery | Subarachnoid hemorrhage |
| I6050 | 430 | Nontraumatic subarachnoid hemorrhage from unspecified vertebral artery | Subarachnoid hemorrhage |
| I6051 | 430 | Nontraumatic subarachnoid hemorrhage from right vertebral artery | Subarachnoid hemorrhage |
| I6052 | 430 | Nontraumatic subarachnoid hemorrhage from left vertebral artery | Subarachnoid hemorrhage |
| I606 | 430 | Nontraumatic subarachnoid hemorrhage from other intracranial arteries | Subarachnoid hemorrhage |
| I607 | 430 | Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery | Subarachnoid hemorrhage |
| I608 | 430 | Other nontraumatic subarachnoid hemorrhage | Subarachnoid hemorrhage |
| I609 | 430 | Nontraumatic subarachnoid hemorrhage, unspecified | Subarachnoid hemorrhage |
| I610 | 431 | Nontraumatic intracerebral hemorrhage in hemisphere, subcortical | Intracerebral hemorrhage |
| I611 | 431 | Nontraumatic intracerebral hemorrhage in hemisphere, cortical | Intracerebral hemorrhage |
| I612 | 431 | Nontraumatic intracerebral hemorrhage in hemisphere, unspecified | Intracerebral hemorrhage |
| I613 | 431 | Nontraumatic intracerebral hemorrhage in brain stem | Intracerebral hemorrhage |
| I614 | 431 | Nontraumatic intracerebral hemorrhage in cerebellum | Intracerebral hemorrhage |
| I615 | 431 | Nontraumatic intracerebral hemorrhage, intraventricular | Intracerebral hemorrhage |
| I616 | 431 | Nontraumatic intracerebral hemorrhage, multiple localized | Intracerebral hemorrhage |
| I618 | 431 | Other nontraumatic intracerebral hemorrhage | Intracerebral hemorrhage |
| I619 | 431 | Nontraumatic intracerebral hemorrhage, unspecified | Intracerebral hemorrhage |
| I621 | 4320 | Nontraumatic extradural hemorrhage | Nontraumatic extradural hemorrhage |
| I6200 | 4321 | Nontraumatic subdural hemorrhage, unspecified | Subdural hemorrhage |
| I6201 | 4321 | Nontraumatic acute subdural hemorrhage | Subdural hemorrhage |
| I6202 | 4321 | Nontraumatic subacute subdural hemorrhage | Subdural hemorrhage |
| I6203 | 4321 | Nontraumatic chronic subdural hemorrhage | Subdural hemorrhage |
| I629 | 4329 | Nontraumatic intracranial hemorrhage, unspecified | Unspecified intracranial hemorrhage |
| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
| Z8673 | V1254 | Personal history of transient ischemic attack (TIA), and cerebral infarction without residual deficits | Personal history of transient ischemic attack (TIA), and cerebral infarction without residual deficits |
| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
| G450 | 435 | Vertebro-basilar artery syndrome | TRANSIENT CEREBRAL ISCHEMIA |
| G451 | 4350 | Carotid artery syndrome (hemispheric) | BASILAR ARTERY SYNDROME |
| G452 | 4351 | Multiple and bilateral precerebral artery syndromes | VERTEBRAL ARTERY SYNDROME |
| G458 | 4352 | Other transient cerebral ischemic attacks and related syndromes | SUBCLAVIAN STEAL SYNDROME |
| G459 | 4353 | Transient cerebral ischemic attack, unspecified | VERTEBROBASILAR ARTERY SYNDROME |
| G460 | 4358 | Middle cerebral artery syndrome | OTHER SPECIFIED TRANSIENT CEREBRAL ISCHEMIAS |
| G461 | 4359 | Anterior cerebral artery syndrome | UNSPECIFIED TRANSIENT CEREBRAL ISCHEMIA |
| G462 | | Posterior cerebral artery syndrome | |
| I67841 | | Reversible cerebrovascular vasoconstriction syndrome | |
| I67848 | | Other cerebrovascular vasospasm and vasoconstriction | |

Peripheral vascular disease

| | | | |
|-----------------|----------------|--|------------------------|
| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
| I70201 | 401 | Unspecified atherosclerosis of native arteries of extremities, right leg | ESSENTIAL HYPERTENSION |

Appendix A
Comorbid conditions

| | | | |
|--------|-------|---|---|
| I70202 | 4010 | Unspecified atherosclerosis of native arteries of extremities, left leg | MALIGNANT ESSENTIAL HYPERTENSION |
| I70203 | 4011 | Unspecified atherosclerosis of native arteries of extremities, bilateral legs | BENIGN ESSENTIAL HYPERTENSION |
| I70208 | 4019 | Unspecified atherosclerosis of native arteries of extremities, other extremity | UNSPECIFIED ESSENTIAL HYPERTENSION |
| I70209 | 402 | Unspecified atherosclerosis of native arteries of extremities, unspecified extremity | HYPERTENSIVE HEART DISEASE |
| I70211 | 4020 | Atherosclerosis of native arteries of extremities with intermittent claudication, right leg | MALIGNANT HYPERTENSIVE HEART DISEASE |
| I70212 | 40200 | Atherosclerosis of native arteries of extremities with intermittent claudication, left leg | MALIGNANT HYPERTENSIVE HEART DISEASE WITHOUT HEART FAILURE |
| I70213 | 40201 | Atherosclerosis of native arteries of extremities with intermittent claudication, bilateral legs | MALIGNANT HYPERTENSIVE HEART DISEASE WITH HEART FAILURE |
| I70218 | 4021 | Atherosclerosis of native arteries of extremities with intermittent claudication, other extremity | BENIGN HYPERTENSIVE HEART DISEASE |
| I70219 | 40210 | Atherosclerosis of native arteries of extremities with intermittent claudication, unspecified extremity | BENIGN HYPERTENSIVE HEART DISEASE WITHOUT HEART FAILURE |
| I70221 | 40211 | Atherosclerosis of native arteries of extremities with rest pain, right leg | BENIGN HYPERTENSIVE HEART DISEASE WITH HEART FAILURE |
| I70222 | 4029 | Atherosclerosis of native arteries of extremities with rest pain, left leg | UNSPECIFIED HYPERTENSIVE HEART DISEASE |
| I70223 | 40290 | Atherosclerosis of native arteries of extremities with rest pain, bilateral legs | UNSPECIFIED HYPERTENSIVE HEART DISEASE WITHOUT HEART FAILURE |
| I70228 | 40291 | Atherosclerosis of native arteries of extremities with rest pain, other extremity | UNSPECIFIED HYPERTENSIVE HEART DISEASE WITH HEART FAILURE |
| I70229 | 403 | Atherosclerosis of native arteries of extremities with rest pain, unspecified extremity | HYPERTENSIVE CHRONIC KIDNEY DISEASE |
| I70231 | 4030 | Atherosclerosis of native arteries of right leg with ulceration of thigh | MALIGNANT HYPERTENSIVE KIDNEY DISEASE |
| I70232 | 40300 | Atherosclerosis of native arteries of right leg with ulceration of calf | HYPERTENSIVE CHRONIC KIDNEY DISEASE MALIGNANT WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |
| I70233 | 40301 | Atherosclerosis of native arteries of right leg with ulceration of ankle | HYPERTENSIVE CHRONIC KIDNEY DISEASE MALIGNANT WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| I70234 | 4031 | Atherosclerosis of native arteries of right leg with ulceration of heel and midfoot | BENIGN HYPERTENSIVE KIDNEY DISEASE |
| I70235 | 40310 | Atherosclerosis of native arteries of right leg with ulceration of other part of foot | HYPERTENSIVE KIDNEY DISEASE BENIGN WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |
| I70238 | 40311 | Atherosclerosis of native arteries of right leg with ulceration of other part of lower right leg | HYPERTENSIVE KIDNEY DISEASE BENIGN WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| I70239 | 4039 | Atherosclerosis of native arteries of right leg with ulceration of unspecified site | UNSPECIFIED HYPERTENSIVE KIDNEY DISEASE |
| I70241 | 40390 | Atherosclerosis of native arteries of left leg with ulceration of thigh | HYPERTENSIVE CHRONIC KIDNEY DISEASE UNSPECIFIED WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |
| I70242 | 40391 | Atherosclerosis of native arteries of left leg with ulceration of calf | HYPERTENSIVE CHRONIC KIDNEY DISEASE UNSPECIFIED WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| I70243 | 404 | Atherosclerosis of native arteries of left leg with ulceration of ankle | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE |
| I70244 | 4040 | Atherosclerosis of native arteries of left leg with ulceration of heel and midfoot | MALIGNANT HYPERTENSIVE HEART AND KIDNEY DISEASE |
| I70245 | 40400 | Atherosclerosis of native arteries of left leg with ulceration of other part of foot | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE MALIGNANT WITHOUT HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |
| I70248 | 40401 | Atherosclerosis of native arteries of left leg with ulceration of other part of lower left leg | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE MALIGNANT WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |

Appendix A
Comorbid conditions

| | | | |
|--------|-------|---|---|
| I70249 | 40402 | Atherosclerosis of native arteries of left leg with ulceration of unspecified site | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE MALIGNANT WITHOUT HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| I7025 | 40403 | Atherosclerosis of native arteries of other extremities with ulceration | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE MALIGNANT WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| I70261 | 4041 | Atherosclerosis of native arteries of extremities with gangrene, right leg | BENIGN HYPERTENSIVE HEART AND KIDNEY DISEASE |
| I70262 | 40410 | Atherosclerosis of native arteries of extremities with gangrene, left leg | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE BENIGN WITHOUT HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |
| I70263 | 40411 | Atherosclerosis of native arteries of extremities with gangrene, bilateral legs | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE BENIGN WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |
| I70268 | 40412 | Atherosclerosis of native arteries of extremities with gangrene, other extremity | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE BENIGN WITHOUT HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| I70269 | 40413 | Atherosclerosis of native arteries of extremities with gangrene, unspecified extremity | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE BENIGN WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| I70291 | 4049 | Other atherosclerosis of native arteries of extremities, right leg | UNSPECIFIED HYPERTENSIVE HEART AND KIDNEY DISEASE |
| I70292 | 40490 | Other atherosclerosis of native arteries of extremities, left leg | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE UNSPECIFIED WITHOUT HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |
| I70293 | 40491 | Other atherosclerosis of native arteries of extremities, bilateral legs | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE UNSPECIFIED WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |
| I70298 | 40492 | Other atherosclerosis of native arteries of extremities, other extremity | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE UNSPECIFIED WITHOUT HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| I70299 | 40493 | Other atherosclerosis of native arteries of extremities, unspecified extremity | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE UNSPECIFIED WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| I70301 | 405 | Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, right leg | SECONDARY HYPERTENSION |
| I70302 | 4050 | Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, left leg | MALIGNANT SECONDARY HYPERTENSION |
| I70303 | 40501 | Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, bilateral legs | MALIGNANT RENOVASCULAR HYPERTENSION |
| I70308 | 40509 | Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, other extremity | OTHER MALIGNANT SECONDARY HYPERTENSION |
| I70309 | 4051 | Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, unspecified extremity | BENIGN SECONDARY HYPERTENSION |
| I70311 | 40511 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, right leg | BENIGN RENOVASCULAR HYPERTENSION |
| I70312 | 40519 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, left leg | OTHER BENIGN SECONDARY HYPERTENSION |
| I70313 | 4059 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs | UNSPECIFIED SECONDARY HYPERTENSION |
| I70318 | 40591 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, other extremity | UNSPECIFIED RENOVASCULAR HYPERTENSION |
| I70319 | 40599 | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, unspecified extremity | OTHER UNSPECIFIED SECONDARY HYPERTENSION |
| I70321 | | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, right leg | |
| I70322 | | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, left leg | |
| I70323 | | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, bilateral legs | |

Appendix A
Comorbid conditions

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|--------|--|--|--|
| 170328 | | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, other extremity | |
| 170329 | | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, unspecified extremity | |
| 170331 | | Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of thigh | |
| 170332 | | Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of calf | |
| 170333 | | Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of ankle | |
| 170334 | | Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of heel and midfoot | |
| 170335 | | Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of other part of foot | |
| 170338 | | Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of other part of lower leg | |
| 170339 | | Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of unspecified site | |
| 170341 | | Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of thigh | |
| 170342 | | Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of calf | |
| 170343 | | Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of ankle | |
| 170344 | | Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of heel and midfoot | |
| 170345 | | Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of other part of foot | |
| 170348 | | Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of other part of lower leg | |
| 170349 | | Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of unspecified site | |
| 17035 | | Atherosclerosis of unspecified type of bypass graft(s) of other extremity with ulceration | |
| 170361 | | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, right leg | |
| 170362 | | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, left leg | |
| 170363 | | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, bilateral legs | |
| 170368 | | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, other extremity | |
| 170369 | | Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, unspecified extremity | |
| 170391 | | Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, right leg | |
| 170392 | | Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, left leg | |
| 170393 | | Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, bilateral legs | |
| 170398 | | Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, other extremity | |
| 170399 | | Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, unspecified extremity | |
| 170401 | | Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg | |
| 170402 | | Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg | |
| 170403 | | Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs | |
| 170408 | | Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity | |

Appendix A
Comorbid conditions

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|--------|--|---|--|
| I70409 | | Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, unspecified extremity | |
| I70411 | | Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, right leg | |
| I70412 | | Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, left leg | |
| I70413 | | Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, bilateral legs | |
| I70418 | | Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, other extremity | |
| I70419 | | Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, unspecified extremity | |
| I70421 | | Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, right leg | |
| I70422 | | Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, left leg | |
| I70423 | | Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, bilateral legs | |
| I70428 | | Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, other extremity | |
| I70429 | | Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, unspecified extremity | |
| I70431 | | Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of thigh | |
| I70432 | | Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of calf | |
| I70433 | | Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of ankle | |
| I70434 | | Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of heel and midfoot | |
| I70435 | | Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of foot | |
| I70438 | | Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of lower leg | |
| I70439 | | Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of unspecified site | |
| I70441 | | Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of thigh | |
| I70442 | | Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of calf | |
| I70443 | | Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of ankle | |
| I70444 | | Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of heel and midfoot | |
| I70445 | | Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of foot | |
| I70448 | | Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of lower leg | |
| I70449 | | Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of unspecified site | |
| I7045 | | Atherosclerosis of autologous vein bypass graft(s) of other extremity with ulceration | |
| I70461 | | Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, right leg | |
| I70462 | | Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, left leg | |
| I70463 | | Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, bilateral legs | |
| I70468 | | Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, other extremity | |

Appendix A
Comorbid conditions

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|--------|--|--|--|
| I70469 | | Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, unspecified extremity | |
| I70491 | | Other atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg | |
| I70492 | | Other atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg | |
| I70493 | | Other atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs | |
| I70498 | | Other atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity | |
| I70499 | | Other atherosclerosis of autologous vein bypass graft(s) of the extremities, unspecified extremity | |
| I70501 | | Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, right leg | |
| I70502 | | Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, left leg | |
| I70503 | | Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, bilateral legs | |
| I70508 | | Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, other extremity | |
| I70509 | | Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, unspecified extremity | |
| I70511 | | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, right leg | |
| I70512 | | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, left leg | |
| I70513 | | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, bilateral legs | |
| I70518 | | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, other extremity | |
| I70519 | | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, unspecified extremity | |
| I70521 | | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, right leg | |
| I70522 | | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, left leg | |
| I70523 | | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, bilateral legs | |
| I70528 | | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, other extremity | |
| I70529 | | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, unspecified extremity | |
| I70531 | | Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of thigh | |
| I70532 | | Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of calf | |
| I70533 | | Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of ankle | |
| I70534 | | Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of heel and midfoot | |
| I70535 | | Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of foot | |
| I70538 | | Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of lower leg | |
| I70539 | | Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of unspecified site | |
| I70541 | | Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of thigh | |

Appendix A
Comorbid conditions

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|--------|--|---|--|
| I70542 | | Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of calf | |
| I70543 | | Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of ankle | |
| I70544 | | Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of heel and midfoot | |
| I70545 | | Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of foot | |
| I70548 | | Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of lower leg | |
| I70549 | | Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of unspecified site | |
| I7055 | | Atherosclerosis of nonautologous biological bypass graft(s) of other extremity with ulceration | |
| I70561 | | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, right leg | |
| I70562 | | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, left leg | |
| I70563 | | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, bilateral legs | |
| I70568 | | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, other extremity | |
| I70569 | | Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, unspecified extremity | |
| I70591 | | Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, right leg | |
| I70592 | | Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, left leg | |
| I70593 | | Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, bilateral legs | |
| I70598 | | Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, other extremity | |
| I70599 | | Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, unspecified extremity | |
| I70601 | | Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, right leg | |
| I70602 | | Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, left leg | |
| I70603 | | Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, bilateral legs | |
| I70608 | | Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, other extremity | |
| I70609 | | Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, unspecified extremity | |
| I70611 | | Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, right leg | |
| I70612 | | Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, left leg | |
| I70613 | | Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, bilateral legs | |
| I70618 | | Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, other extremity | |
| I70619 | | Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, unspecified extremity | |
| I70621 | | Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, right leg | |
| I70622 | | Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, left leg | |
| I70623 | | Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, bilateral legs | |

Appendix A
Comorbid conditions

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|--------|--|--|--|
| I70628 | | Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, other extremity | |
| I70629 | | Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, unspecified extremity | |
| I70631 | | Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of thigh | |
| I70632 | | Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of calf | |
| I70633 | | Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of ankle | |
| I70634 | | Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of heel and midfoot | |
| I70635 | | Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of other part of foot | |
| I70638 | | Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of other part of lower leg | |
| I70639 | | Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of unspecified site | |
| I70641 | | Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of thigh | |
| I70642 | | Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of calf | |
| I70643 | | Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of ankle | |
| I70644 | | Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of heel and midfoot | |
| I70645 | | Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of other part of foot | |
| I70648 | | Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of other part of lower leg | |
| I70649 | | Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of unspecified site | |
| I7065 | | Atherosclerosis of nonbiological bypass graft(s) of other extremity with ulceration | |
| I70661 | | Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, right leg | |
| I70662 | | Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, left leg | |
| I70663 | | Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, bilateral legs | |
| I70668 | | Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, other extremity | |
| I70669 | | Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, unspecified extremity | |
| I70691 | | Other atherosclerosis of nonbiological bypass graft(s) of the extremities, right leg | |
| I70692 | | Other atherosclerosis of nonbiological bypass graft(s) of the extremities, left leg | |
| I70693 | | Other atherosclerosis of nonbiological bypass graft(s) of the extremities, bilateral legs | |
| I70698 | | Other atherosclerosis of nonbiological bypass graft(s) of the extremities, other extremity | |
| I70699 | | Other atherosclerosis of nonbiological bypass graft(s) of the extremities, unspecified extremity | |
| I70701 | | Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, right leg | |
| I70702 | | Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, left leg | |
| I70703 | | Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, bilateral legs | |
| I70708 | | Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, other extremity | |

Appendix A
Comorbid conditions

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|--------|--|---|--|
| I70709 | | Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, unspecified extremity | |
| I70711 | | Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, right leg | |
| I70712 | | Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, left leg | |
| I70713 | | Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs | |
| I70718 | | Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, other extremity | |
| I70719 | | Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, unspecified extremity | |
| I70721 | | Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, right leg | |
| I70722 | | Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, left leg | |
| I70723 | | Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, bilateral legs | |
| I70728 | | Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, other extremity | |
| I70729 | | Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, unspecified extremity | |
| I70731 | | Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of thigh | |
| I70732 | | Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of calf | |
| I70733 | | Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of ankle | |
| I70734 | | Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of heel and midfoot | |
| I70735 | | Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of foot | |
| I70738 | | Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of lower leg | |
| I70739 | | Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of unspecified site | |
| I70741 | | Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of thigh | |
| I70742 | | Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of calf | |
| I70743 | | Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of ankle | |
| I70744 | | Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of heel and midfoot | |
| I70745 | | Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of foot | |
| I70748 | | Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of lower leg | |
| I70749 | | Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of unspecified site | |
| I7075 | | Atherosclerosis of other type of bypass graft(s) of other extremity with ulceration | |
| I70761 | | Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, right leg | |
| I70762 | | Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, left leg | |
| I70763 | | Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, bilateral legs | |
| I70768 | | Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, other extremity | |

Appendix A
Comorbid conditions

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|--------|--|--|--|
| I70769 | | Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, unspecified extremity | |
| I70791 | | Other atherosclerosis of other type of bypass graft(s) of the extremities, right leg | |
| I70792 | | Other atherosclerosis of other type of bypass graft(s) of the extremities, left leg | |
| I70793 | | Other atherosclerosis of other type of bypass graft(s) of the extremities, bilateral legs | |
| I70798 | | Other atherosclerosis of other type of bypass graft(s) of the extremities, other extremity | |
| I70799 | | Other atherosclerosis of other type of bypass graft(s) of the extremities, unspecified extremity | |
| I739 | | Peripheral vascular disease, unspecified | |

Hyperlipidemia

| ICD10 Dx | ICD9 Dx | LongDesiCD10 | LongDesiCD9 |
|----------|---------|-----------------------------|--------------------------------------|
| E780 | 2720 | Pure hypercholesterolemia | PURE HYPERCHOLESTEROLEMIA |
| E7800 | 2722 | | MIXED HYPERLIPIDEMIA |
| E781 | 2724 | Pure hyperglyceridemia | OTHER AND UNSPECIFIED HYPERLIPIDEMIA |
| E782 | | Mixed hyperlipidemia | |
| E784 | | Other hyperlipidemia | |
| E785 | | Hyperlipidemia, unspecified | |

Renal dysfunction

| ICD10 Dx | ICD9 Dx | LongDesiCD10 | LongDesiCD9 |
|----------|---------|--|---|
| B520 | 25040 | Plasmodium malariae malaria with nephropathy | DIABETES WITH RENAL MANIFESTATIONS TYPE II OR UNSPECIFIED TYPE NOT STATED AS UNCONTROLLED |
| I823 | 25041 | Embolism and thrombosis of renal vein | DIABETES WITH RENAL MANIFESTATIONS TYPE I [JUVENILE TYPE] NOT STATED AS UNCONTROLLED |
| M1030 | 25042 | Gout due to renal impairment, unspecified site | DIABETES WITH RENAL MANIFESTATIONS TYPE II OR UNSPECIFIED TYPE UNCONTROLLED |
| M10311 | 25043 | Gout due to renal impairment, right shoulder | DIABETES WITH RENAL MANIFESTATIONS TYPE I [JUVENILE TYPE] UNCONTROLLED |
| M10312 | 27410 | Gout due to renal impairment, left shoulder | GOUTY NEPHROPATHY UNSPECIFIED |
| M10319 | 403 | Gout due to renal impairment, unspecified shoulder | HYPERTENSIVE CHRONIC KIDNEY DISEASE |
| M10321 | 4030 | Gout due to renal impairment, right elbow | MALIGNANT HYPERTENSIVE KIDNEY DISEASE |
| M10322 | 40300 | Gout due to renal impairment, left elbow | HYPERTENSIVE CHRONIC KIDNEY DISEASE MALIGNANT WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |
| M10329 | 40301 | Gout due to renal impairment, unspecified elbow | HYPERTENSIVE CHRONIC KIDNEY DISEASE MALIGNANT WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| M10331 | 4031 | Gout due to renal impairment, right wrist | BENIGN HYPERTENSIVE KIDNEY DISEASE |
| M10332 | 40310 | Gout due to renal impairment, left wrist | HYPERTENSIVE KIDNEY DISEASE BENIGN WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |
| M10339 | 40311 | Gout due to renal impairment, unspecified wrist | HYPERTENSIVE KIDNEY DISEASE BENIGN WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| M10341 | 4039 | Gout due to renal impairment, right hand | UNSPECIFIED HYPERTENSIVE KIDNEY DISEASE |
| M10342 | 40390 | Gout due to renal impairment, left hand | HYPERTENSIVE CHRONIC KIDNEY DISEASE UNSPECIFIED WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |
| M10349 | 40391 | Gout due to renal impairment, unspecified hand | HYPERTENSIVE CHRONIC KIDNEY DISEASE UNSPECIFIED WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| M10351 | 404 | Gout due to renal impairment, right hip | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE |
| M10352 | 4040 | Gout due to renal impairment, left hip | MALIGNANT HYPERTENSIVE HEART AND KIDNEY DISEASE |
| M10359 | 40400 | Gout due to renal impairment, unspecified hip | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE MALIGNANT WITHOUT HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |

Appendix A
Comorbid conditions

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|--------|-------|--|---|
| M10361 | 40401 | Gout due to renal impairment, right knee | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE MALIGNANT WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |
| M10362 | 40402 | Gout due to renal impairment, left knee | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE MALIGNANT WITHOUT HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| M10369 | 40403 | Gout due to renal impairment, unspecified knee | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE MALIGNANT WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| M10371 | 4041 | Gout due to renal impairment, right ankle and foot | BENIGN HYPERTENSIVE HEART AND KIDNEY DISEASE |
| M10372 | 40410 | Gout due to renal impairment, left ankle and foot | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE BENIGN WITHOUT HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |
| M10379 | 40411 | Gout due to renal impairment, unspecified ankle and foot | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE BENIGN WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |
| M1038 | 40412 | Gout due to renal impairment, vertebrae | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE BENIGN WITHOUT HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| M1039 | 40413 | Gout due to renal impairment, multiple sites | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE BENIGN WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| M3214 | 4049 | Glomerular disease in systemic lupus erythematosus | UNSPECIFIED HYPERTENSIVE HEART AND KIDNEY DISEASE |
| M3215 | 40490 | Tubulo-interstitial nephropathy in systemic lupus erythematosus | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE UNSPECIFIED WITHOUT HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |
| M3504 | 40491 | Sicca syndrome with tubulo-interstitial nephropathy | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE UNSPECIFIED WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV OR UNSPECIFIED |
| N000 | 40492 | Acute nephritic syndrome with minor glomerular abnormality | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE UNSPECIFIED WITHOUT HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| N001 | 40493 | Acute nephritic syndrome with focal and segmental glomerular lesions | HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE UNSPECIFIED WITH HEART FAILURE WITH CHRONIC KIDNEY DISEASE STAGE V OR END STAGE RENAL DISEASE |
| N002 | 4533 | Acute nephritic syndrome with diffuse membranous glomerulonephritis | EMBOLISM AND THROMBOSIS OF RENAL VEIN |
| N003 | 5800 | Acute nephritic syndrome with diffuse mesangial proliferative glomerulonephritis | ACUTE GLOMERULONEPHRITIS WITH LESION OF PROLIFERATIVE GLOMERULONEPHRITIS |
| N004 | 5804 | Acute nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis | ACUTE GLOMERULONEPHRITIS WITH LESION OF RAPIDLY PROGRESSIVE GLOMERULONEPHRITIS |
| N005 | 5808 | Acute nephritic syndrome with diffuse mesangiocapillary glomerulonephritis | ACUTE GLOMERULONEPHRITIS WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY |
| N006 | 5809 | Acute nephritic syndrome with dense deposit disease | ACUTE GLOMERULONEPHRITIS WITH UNSPECIFIED PATHOLOGICAL LESION IN KIDNEY |
| N007 | 581 | Acute nephritic syndrome with diffuse crescentic glomerulonephritis | NEPHROTIC SYNDROME |
| N008 | 5810 | Acute nephritic syndrome with other morphologic changes | NEPHROTIC SYNDROME WITH LESION OF PROLIFERATIVE GLOMERULONEPHRITIS |
| N009 | 5811 | Acute nephritic syndrome with unspecified morphologic changes | NEPHROTIC SYNDROME WITH LESION OF MEMBRANOUS GLOMERULONEPHRITIS |
| N010 | 5812 | Rapidly progressive nephritic syndrome with minor glomerular abnormality | NEPHROTIC SYNDROME WITH LESION OF MEMBRANOPROLIFERATIVE GLOMERULONEPHRITIS |
| N011 | 5813 | Rapidly progressive nephritic syndrome with focal and segmental glomerular lesions | NEPHROTIC SYNDROME WITH LESION OF MINIMAL CHANGE GLOMERULONEPHRITIS |
| N012 | 5818 | Rapidly progressive nephritic syndrome with diffuse membranous glomerulonephritis | NEPHROTIC SYNDROME WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY |
| N013 | 58181 | Rapidly progressive nephritic syndrome with diffuse mesangial proliferative glomerulonephritis | NEPHROTIC SYNDROME IN DISEASES CLASSIFIED ELSEWHERE |
| N014 | 58189 | Rapidly progressive nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis | OTHER NEPHROTIC SYNDROME WITH SPECIFIED PATHOLOGICAL LESION IN KIDNEY |

Appendix A
Comorbid conditions

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|------|-------|--|---|
| N015 | 5819 | Rapidly progressive nephritic syndrome with diffuse mesangiocapillary glomerulonephritis | NEPHROTIC SYNDROME WITH UNSPECIFIED PATHOLOGICAL LESION IN KIDNEY |
| N016 | 5820 | Rapidly progressive nephritic syndrome with dense deposit disease | CHRONIC GLOMERULONEPHRITIS WITH LESION OF PROLIFERATIVE GLOMERULONEPHRITIS |
| N017 | 5821 | Rapidly progressive nephritic syndrome with diffuse crescentic glomerulonephritis | CHRONIC GLOMERULONEPHRITIS WITH LESION OF MEMBRANOUS GLOMERULONEPHRITIS |
| N018 | 5822 | Rapidly progressive nephritic syndrome with other morphologic changes | CHRONIC GLOMERULONEPHRITIS WITH LESION OF MEMBRANOPROLIFERATIVE GLOMERULONEPHRITIS |
| N019 | 5824 | Rapidly progressive nephritic syndrome with unspecified morphologic changes | CHRONIC GLOMERULONEPHRITIS WITH LESION OF RAPIDLY PROGRESSIVE GLOMERULONEPHRITIS |
| N020 | 5828 | Recurrent and persistent hematuria with minor glomerular abnormality | CHRONIC GLOMERULONEPHRITIS WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY |
| N021 | 5829 | Recurrent and persistent hematuria with focal and segmental glomerular lesions | CHRONIC GLOMERULONEPHRITIS WITH UNSPECIFIED PATHOLOGICAL LESION IN KIDNEY |
| N022 | 5830 | Recurrent and persistent hematuria with diffuse membranous glomerulonephritis | NEPHRITIS AND NEPHROPATHY NOT SPECIFIED AS ACUTE OR CHRONIC WITH LESION OF PROLIFERATIVE GLOMERULONEPHRITIS |
| N023 | 5831 | Recurrent and persistent hematuria with diffuse mesangial proliferative glomerulonephritis | NEPHRITIS AND NEPHROPATHY NOT SPECIFIED AS ACUTE OR CHRONIC WITH LESION OF MEMBRANOUS GLOMERULONEPHRITIS |
| N024 | 5832 | Recurrent and persistent hematuria with diffuse endocapillary proliferative glomerulonephritis | NEPHRITIS AND NEPHROPATHY NOT SPECIFIED AS ACUTE OR CHRONIC WITH LESION OF MEMBRANOPROLIFERATIVE GLOMERULONEPHRITIS |
| N025 | 5834 | Recurrent and persistent hematuria with diffuse mesangiocapillary glomerulonephritis | NEPHRITIS AND NEPHROPATHY NOT SPECIFIED AS ACUTE OR CHRONIC WITH LESION OF RAPIDLY PROGRESSIVE GLOMERULONEPHRITIS |
| N026 | 5836 | Recurrent and persistent hematuria with dense deposit disease | NEPHRITIS AND NEPHROPATHY NOT SPECIFIED AS ACUTE OR CHRONIC WITH LESION OF RENAL CORTICAL NECROSIS |
| N027 | 5837 | Recurrent and persistent hematuria with diffuse crescentic glomerulonephritis | NEPHRITIS AND NEPHROPATHY NOT SPECIFIED AS ACUTE OR CHRONIC WITH LESION OF RENAL MEDULLARY NECROSIS |
| N028 | 5838 | Recurrent and persistent hematuria with other morphologic changes | NEPHRITIS AND NEPHROPATHY NOT SPECIFIED AS ACUTE OR CHRONIC WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY |
| N029 | 5839 | Recurrent and persistent hematuria with unspecified morphologic changes | NEPHRITIS AND NEPHROPATHY NOT SPECIFIED AS ACUTE OR CHRONIC WITH UNSPECIFIED PATHOLOGICAL LESION IN KIDNEY |
| N030 | 5846 | Chronic nephritic syndrome with minor glomerular abnormality | ACUTE KIDNEY FAILURE WITH LESION OF RENAL CORTICAL NECROSIS |
| N031 | 5847 | Chronic nephritic syndrome with focal and segmental glomerular lesions | ACUTE KIDNEY FAILURE WITH LESION OF RENAL MEDULLARY (PAPILLARY) NECROSIS |
| N032 | 5848 | Chronic nephritic syndrome with diffuse membranous glomerulonephritis | ACUTE KIDNEY FAILURE WITH OTHER SPECIFIED PATHOLOGICAL LESION IN KIDNEY |
| N033 | 5849 | Chronic nephritic syndrome with diffuse mesangial proliferative glomerulonephritis | ACUTE KIDNEY FAILURE UNSPECIFIED |
| N034 | 5851 | Chronic nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis | CHRONIC KIDNEY DISEASE STAGE I |
| N035 | 5852 | Chronic nephritic syndrome with diffuse mesangiocapillary glomerulonephritis | CHRONIC KIDNEY DISEASE STAGE II (MILD) |
| N036 | 5853 | Chronic nephritic syndrome with dense deposit disease | CHRONIC KIDNEY DISEASE STAGE III (MODERATE) |
| N037 | 5854 | Chronic nephritic syndrome with diffuse crescentic glomerulonephritis | CHRONIC KIDNEY DISEASE STAGE IV (SEVERE) |
| N038 | 5855 | Chronic nephritic syndrome with other morphologic changes | CHRONIC KIDNEY DISEASE STAGE V |
| N039 | 5856 | Chronic nephritic syndrome with unspecified morphologic changes | END STAGE RENAL DISEASE |
| N040 | 5859 | Nephrotic syndrome with minor glomerular abnormality | CHRONIC KIDNEY DISEASE UNSPECIFIED |
| N041 | 86600 | Nephrotic syndrome with focal and segmental glomerular lesions | UNSPECIFIED INJURY TO KIDNEY WITHOUT OPEN WOUND INTO CAVITY |
| N042 | 86601 | Nephrotic syndrome with diffuse membranous glomerulonephritis | HEMATOMA OF KIDNEY WITHOUT RUPTURE OF CAPSULE WITHOUT OPEN WOUND INTO CAVITY |

Appendix A
Comorbid conditions

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|------|------|--|--|
| N043 | 8661 | Nephrotic syndrome with diffuse mesangial proliferative glomerulonephritis | INJURY TO KIDNEY WITH OPEN WOUND INTO CAVITY |
| N044 | | Nephrotic syndrome with diffuse endocapillary proliferative glomerulonephritis | |
| N045 | | Nephrotic syndrome with diffuse mesangiocapillary glomerulonephritis | |
| N046 | | Nephrotic syndrome with dense deposit disease | |
| N047 | | Nephrotic syndrome with diffuse crescentic glomerulonephritis | |
| N048 | | Nephrotic syndrome with other morphologic changes | |
| N049 | | Nephrotic syndrome with unspecified morphologic changes | |
| N050 | | Unspecified nephritic syndrome with minor glomerular abnormality | |
| N051 | | Unspecified nephritic syndrome with focal and segmental glomerular lesions | |
| N052 | | Unspecified nephritic syndrome with diffuse membranous glomerulonephritis | |
| N053 | | Unspecified nephritic syndrome with diffuse mesangial proliferative glomerulonephritis | |
| N054 | | Unspecified nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis | |
| N055 | | Unspecified nephritic syndrome with diffuse mesangiocapillary glomerulonephritis | |
| N056 | | Unspecified nephritic syndrome with dense deposit disease | |
| N057 | | Unspecified nephritic syndrome with diffuse crescentic glomerulonephritis | |
| N058 | | Unspecified nephritic syndrome with other morphologic changes | |
| N059 | | Unspecified nephritic syndrome with unspecified morphologic changes | |
| N060 | | Isolated proteinuria with minor glomerular abnormality | |
| N061 | | Isolated proteinuria with focal and segmental glomerular lesions | |
| N062 | | Isolated proteinuria with diffuse membranous glomerulonephritis | |
| N063 | | Isolated proteinuria with diffuse mesangial proliferative glomerulonephritis | |
| N064 | | Isolated proteinuria with diffuse endocapillary proliferative glomerulonephritis | |
| N065 | | Isolated proteinuria with diffuse mesangiocapillary glomerulonephritis | |
| N066 | | Isolated proteinuria with dense deposit disease | |
| N067 | | Isolated proteinuria with diffuse crescentic glomerulonephritis | |
| N068 | | Isolated proteinuria with other morphologic lesion | |
| N069 | | Isolated proteinuria with unspecified morphologic lesion | |
| N070 | | Hereditary nephropathy, not elsewhere classified with minor glomerular abnormality | |
| N071 | | Hereditary nephropathy, not elsewhere classified with focal and segmental glomerular lesions | |
| N072 | | Hereditary nephropathy, not elsewhere classified with diffuse membranous glomerulonephritis | |
| N073 | | Hereditary nephropathy, not elsewhere classified with diffuse mesangial proliferative glomerulonephritis | |
| N074 | | Hereditary nephropathy, not elsewhere classified with diffuse endocapillary proliferative glomerulonephritis | |
| N075 | | Hereditary nephropathy, not elsewhere classified with diffuse mesangiocapillary glomerulonephritis | |
| N076 | | Hereditary nephropathy, not elsewhere classified with dense deposit disease | |
| N077 | | Hereditary nephropathy, not elsewhere classified with diffuse crescentic glomerulonephritis | |

Appendix A
Comorbid conditions

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|---------|--|--|--|
| N078 | | Hereditary nephropathy, not elsewhere classified with other morphologic lesions | |
| N079 | | Hereditary nephropathy, not elsewhere classified with unspecified morphologic lesions | |
| N08 | | Glomerular disorders in diseases classified elsewhere | |
| N140 | | Analgesic nephropathy | |
| N141 | | Nephropathy induced by other drugs, medicaments and biological substances | |
| N142 | | Nephropathy induced by unspecified drug, medicament or biological substance | |
| N143 | | Nephropathy induced by heavy metals | |
| N144 | | Toxic nephropathy, not elsewhere classified | |
| N150 | | Balkan nephropathy | |
| N158 | | Other specified renal tubulo-interstitial diseases | |
| N159 | | Renal tubulo-interstitial disease, unspecified | |
| N16 | | Renal tubulo-interstitial disorders in diseases classified elsewhere | |
| N171 | | Acute kidney failure with acute cortical necrosis | |
| N172 | | Acute kidney failure with medullary necrosis | |
| N178 | | Other acute kidney failure | |
| N179 | | Acute kidney failure, unspecified | |
| N181 | | Chronic kidney disease, stage 1 | |
| N182 | | Chronic kidney disease, stage 2 (mild) | |
| N183 | | Chronic kidney disease, stage 3 (moderate) | |
| N184 | | Chronic kidney disease, stage 4 (severe) | |
| N185 | | Chronic kidney disease, stage 5 | |
| N186 | | End stage renal disease | |
| N189 | | Chronic kidney disease, unspecified | |
| N19 | | Unspecified kidney failure | |
| N261 | | Atrophy of kidney (terminal) | |
| N269 | | Renal sclerosis, unspecified | |
| S31001A | | Unspecified open wound of lower back and pelvis with penetration into retroperitoneum, initial encounter | |
| S37001A | | Unspecified injury of right kidney, initial encounter | |
| S37002A | | Unspecified injury of left kidney, initial encounter | |
| S37009A | | Unspecified injury of unspecified kidney, initial encounter | |
| S37011A | | Minor contusion of right kidney, initial encounter | |
| S37012A | | Minor contusion of left kidney, initial encounter | |
| S37019A | | Minor contusion of unspecified kidney, initial encounter | |
| S37021A | | Major contusion of right kidney, initial encounter | |
| S37022A | | Major contusion of left kidney, initial encounter | |
| S37029A | | Major contusion of unspecified kidney, initial encounter | |
| S37039A | | Laceration of unspecified kidney, unspecified degree, initial encounter | |
| S37049A | | Minor laceration of unspecified kidney, initial encounter | |
| S37059A | | Moderate laceration of unspecified kidney, initial encounter | |
| S37069A | | Major laceration of unspecified kidney, initial encounter | |
| Z4931 | | Encounter for adequacy testing for hemodialysis | |
| Z4932 | | Encounter for adequacy testing for peritoneal dialysis | |

Chronic liver disease

| ICD10 Dx | ICD9 Dx | LongDesiCD10 | LongDesiCD9 |
|----------|---------|--|-------------------------------------|
| B251 | 571 | Cytomegaloviral hepatitis | CHRONIC LIVER DISEASE AND CIRRHOSIS |
| K700 | 5710 | Alcoholic fatty liver | ALCOHOLIC FATTY LIVER |
| K7010 | 5711 | Alcoholic hepatitis without ascites | ACUTE ALCOHOLIC HEPATITIS |
| K7011 | 5712 | Alcoholic hepatitis with ascites | ALCOHOLIC CIRRHOSIS OF LIVER |
| K702 | 5713 | Alcoholic fibrosis and sclerosis of liver | ALCOHOLIC LIVER DAMAGE UNSPECIFIED |
| K7030 | 5714 | Alcoholic cirrhosis of liver without ascites | CHRONIC HEPATITIS |
| K7031 | 57140 | Alcoholic cirrhosis of liver with ascites | CHRONIC HEPATITIS UNSPECIFIED |
| K7040 | 57141 | Alcoholic hepatic failure without coma | CHRONIC PERSISTENT HEPATITIS |
| K7041 | 57142 | Alcoholic hepatic failure with coma | AUTOIMMUNE HEPATITIS |
| K709 | 57149 | Alcoholic liver disease, unspecified | OTHER CHRONIC HEPATITIS |

Appendix A
Comorbid conditions

| | | | |
|-------|------|---|---|
| K710 | 5715 | Toxic liver disease with cholestasis | CIRRHOSIS OF LIVER WITHOUT ALCOHOL |
| K7110 | 5716 | Toxic liver disease with hepatic necrosis, without coma | BILIARY CIRRHOSIS |
| K7111 | 5718 | Toxic liver disease with hepatic necrosis, with coma | OTHER CHRONIC NONALCOHOLIC LIVER DISEASE |
| K712 | 5719 | Toxic liver disease with acute hepatitis | UNSPECIFIED CHRONIC LIVER DISEASE WITHOUT ALCOHOL |
| K713 | 572 | Toxic liver disease with chronic persistent hepatitis | LIVER ABSCESS AND SEQUELAE OF CHRONIC LIVER DISEASE |
| K714 | 5720 | Toxic liver disease with chronic lobular hepatitis | ABSCESS OF LIVER |
| K7150 | 5721 | Toxic liver disease with chronic active hepatitis without ascites | PORTAL PYEMIA |
| K7151 | 5722 | Toxic liver disease with chronic active hepatitis with ascites | HEPATIC ENCEPHALOPATHY |
| K716 | 5723 | Toxic liver disease with hepatitis, not elsewhere classified | PORTAL HYPERTENSION |
| K717 | 5724 | Toxic liver disease with fibrosis and cirrhosis of liver | HEPATORENAL SYNDROME |
| K718 | 5728 | Toxic liver disease with other disorders of liver | OTHER SEQUELAE OF CHRONIC LIVER DISEASE |
| K719 | 573 | Toxic liver disease, unspecified | OTHER DISORDERS OF LIVER |
| K7201 | 5730 | Acute and subacute hepatic failure with coma | CHRONIC PASSIVE CONGESTION OF LIVER |
| K7210 | 5731 | Chronic hepatic failure without coma | HEPATITIS IN VIRAL DISEASES CLASSIFIED ELSEWHERE |
| K7211 | 5732 | Chronic hepatic failure with coma | HEPATITIS IN OTHER INFECTIOUS DISEASES CLASSIFIED ELSEWHERE |
| K7290 | 5733 | Hepatic failure, unspecified without coma | HEPATITIS UNSPECIFIED |
| K7291 | 5734 | Hepatic failure, unspecified with coma | HEPATIC INFARCTION |
| K730 | 5735 | Chronic persistent hepatitis, not elsewhere classified | HEPATOPULMONARY SYNDROME |
| K731 | 5738 | Chronic lobular hepatitis, not elsewhere classified | OTHER SPECIFIED DISORDERS OF LIVER |
| K732 | 5739 | Chronic active hepatitis, not elsewhere classified | UNSPECIFIED DISORDER OF LIVER |
| K738 | | Other chronic hepatitis, not elsewhere classified | |
| K739 | | Chronic hepatitis, unspecified | |
| K740 | | Hepatic fibrosis | |
| K741 | | Hepatic sclerosis | |
| K742 | | Hepatic fibrosis with hepatic sclerosis | |
| K743 | | Primary biliary cirrhosis | |
| K744 | | Secondary biliary cirrhosis | |
| K745 | | Biliary cirrhosis, unspecified | |
| K7460 | | Unspecified cirrhosis of liver | |
| K7469 | | Other cirrhosis of liver | |
| K750 | | Abscess of liver | |
| K751 | | Phlebitis of portal vein | |
| K752 | | Nonspecific reactive hepatitis | |
| K753 | | Granulomatous hepatitis, not elsewhere classified | |
| K754 | | Autoimmune hepatitis | |
| K7581 | | Nonalcoholic steatohepatitis (NASH) | |
| K7589 | | Other specified inflammatory liver diseases | |
| K759 | | Inflammatory liver disease, unspecified | |
| K760 | | Fatty (change of) liver, not elsewhere classified | |
| K761 | | Chronic passive congestion of liver | |
| K763 | | Infarction of liver | |
| K764 | | Peliosis hepatis | |
| K765 | | Hepatic veno-occlusive disease | |
| K766 | | Portal hypertension | |
| K767 | | Hepatorenal syndrome | |
| K7681 | | Hepatopulmonary syndrome | |
| K7689 | | Other specified diseases of liver | |
| K769 | | Liver disease, unspecified | |
| K77 | | Liver disorders in diseases classified elsewhere | |

Asthma

| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
|----------|---------|--|--|
| J440 | 493 | Chronic obstructive pulmonary disease with acute lower respiratory infection | ASTHMA |
| J441 | 4930 | Chronic obstructive pulmonary disease with (acute) exacerbation | EXTRINSIC ASTHMA |
| J449 | 49300 | Chronic obstructive pulmonary disease, unspecified | EXTRINSIC ASTHMA UNSPECIFIED |
| J4520 | 49301 | Mild intermittent asthma, uncomplicated | EXTRINSIC ASTHMA WITH STATUS ASTHMATICUS |
| J4521 | 49302 | Mild intermittent asthma with (acute) exacerbation | EXTRINSIC ASTHMA WITH (ACUTE) EXACERBATION |
| J4522 | 4931 | Mild intermittent asthma with status asthmaticus | INTRINSIC ASTHMA |

Appendix A
Comorbid conditions

| | | | |
|--------|-------|--|--|
| J4530 | 49310 | Mild persistent asthma, uncomplicated | INTRINSIC ASTHMA UNSPECIFIED |
| J4531 | 49311 | Mild persistent asthma with (acute) exacerbation | INTRINSIC ASTHMA WITH STATUS ASTHMATICUS |
| J4532 | 49312 | Mild persistent asthma with status asthmaticus | INTRINSIC ASTHMA WITH (ACUTE) EXACERBATION |
| J4540 | 4932 | Moderate persistent asthma, uncomplicated | CHRONIC OBSTRUCTIVE ASTHMA |
| J4541 | 49320 | Moderate persistent asthma with (acute) exacerbation | CHRONIC OBSTRUCTIVE ASTHMA UNSPECIFIED |
| J4542 | 49321 | Moderate persistent asthma with status asthmaticus | CHRONIC OBSTRUCTIVE ASTHMA WITH STATUS ASTHMATICUS |
| J4550 | 49322 | Severe persistent asthma, uncomplicated | CHRONIC OBSTRUCTIVE ASTHMA WITH (ACUTE) EXACERBATION |
| J4551 | 4938 | Severe persistent asthma with (acute) exacerbation | OTHER SPECIFIED ASTHMA |
| J4552 | 49381 | Severe persistent asthma with status asthmaticus | EXERCISE-INDUCED BRONCHOSPASM |
| J45901 | 49382 | Unspecified asthma with (acute) exacerbation | COUGH VARIANT ASTHMA |
| J45902 | 4939 | Unspecified asthma with status asthmaticus | ASTHMA UNSPECIFIED |
| J45909 | 49390 | Unspecified asthma, uncomplicated | ASTHMA UNSPECIFIED |
| J45990 | 49391 | Exercise induced bronchospasm | ASTHMA UNSPECIFIED TYPE WITH STATUS ASTHMATICUS |
| J45991 | 49392 | Cough variant asthma | ASTHMA UNSPECIFIED WITH (ACUTE) EXACERBATION |
| J45998 | | Other asthma | |

| Ischemic heart disease | | | |
|------------------------|---------|---|--|
| ICD10 Dx | ICD9 Dx | LongDeslCD10 | LongDeslCD9 |
| I201 | 412 | Angina pectoris with documented spasm | OLD MYOCARDIAL INFARCTION |
| I208 | 413 | Other forms of angina pectoris | ANGINA PECTORIS |
| I209 | 4130 | Angina pectoris, unspecified | ANGINA DECUBITUS |
| I2510 | 4131 | Atherosclerotic heart disease of native coronary artery without angina pectoris | PRINZMETAL ANGINA |
| I25110 | 4139 | Atherosclerotic heart disease of native coronary artery with unstable angina pectoris | OTHER AND UNSPECIFIED ANGINA PECTORIS |
| I25111 | 414 | Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm | OTHER FORMS OF CHRONIC ISCHEMIC HEART DISEASE |
| I25118 | 4140 | Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris | CORONARY ATHEROSCLEROSIS |
| I25119 | 41400 | Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris | CORONARY ATHEROSCLEROSIS OF UNSPECIFIED TYPE OF VESSEL NATIVE OR GRAFT |
| I252 | 41401 | Old myocardial infarction | CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY ARTERY |
| I253 | 41402 | Aneurysm of heart | CORONARY ATHEROSCLEROSIS OF AUTOLOGOUS VEIN BYPASS GRAFT |
| I2541 | 41403 | Coronary artery aneurysm | CORONARY ATHEROSCLEROSIS OF NONAUTOLOGOUS BIOLOGICAL BYPASS GRAFT |
| I2542 | 41404 | Coronary artery dissection | CORONARY ATHEROSCLEROSIS OF ARTERY BYPASS GRAFT |
| I255 | 41405 | Ischemic cardiomyopathy | CORONARY ATHEROSCLEROSIS OF UNSPECIFIED BYPASS GRAFT |
| I256 | 41406 | Silent myocardial ischemia | CORONARY ATHEROSCLEROSIS OF NATIVE CORONARY ARTERY OF TRANSPLANTED HEART |
| I25700 | 41407 | Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris | CORONARY ATHEROSCLEROSIS OF BYPASS GRAFT (ARTERY) (VEIN) OF TRANSPLANTED HEART |
| I25701 | 4141 | Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm | ANEURYSM AND DISSECTION OF HEART |
| I25708 | 41410 | Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris | ANEURYSM OF HEART (WALL) |
| I25709 | 41411 | Atherosclerosis of coronary artery bypass graft(s), unspecified, with unspecified angina pectoris | ANEURYSM OF CORONARY VESSELS |
| I25710 | 41412 | Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris | DISSECTION OF CORONARY ARTERY |
| I25711 | 41419 | Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm | OTHER ANEURYSM OF HEART |
| I25718 | 4142 | Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris | CHRONIC TOTAL OCCLUSION OF CORONARY ARTERY |
| I25719 | 4143 | Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris | CORONARY ATHEROSCLEROSIS DUE TO LIPID RICH PLAQUE |
| I25720 | 4144 | Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris | CORONARY ATHEROSCLEROSIS DUE TO CALCIFIED CORONARY LESION |

Appendix A
Comorbid conditions

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|--------|------|--|---|
| I25721 | 4148 | Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm | OTHER SPECIFIED FORMS OF CHRONIC ISCHEMIC HEART DISEASE |
| I25728 | 4149 | Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris | CHRONIC ISCHEMIC HEART DISEASE UNSPECIFIED |
| I25729 | | Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris | |
| I25730 | | Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris | |
| I25731 | | Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm | |
| I25738 | | Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris | |
| I25739 | | Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris | |
| I25750 | | Atherosclerosis of native coronary artery of transplanted heart with unstable angina | |
| I25751 | | Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm | |
| I25758 | | Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris | |
| I25759 | | Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris | |
| I25760 | | Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina | |
| I25761 | | Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm | |
| I25768 | | Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris | |
| I25769 | | Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris | |
| I25790 | | Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris | |
| I25791 | | Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm | |
| I25798 | | Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris | |
| I25799 | | Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris | |
| I25810 | | Atherosclerosis of coronary artery bypass graft(s) without angina pectoris | |
| I25811 | | Atherosclerosis of native coronary artery of transplanted heart without angina pectoris | |
| I25812 | | Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris | |
| I2582 | | Chronic total occlusion of coronary artery | |
| I2583 | | Coronary atherosclerosis due to lipid rich plaque | |
| I2584 | | Coronary atherosclerosis due to calcified coronary lesion | |
| I2589 | | Other forms of chronic ischemic heart disease | |
| I259 | | Chronic ischemic heart disease, unspecified | |