

STATISTICAL ANALYSIS PLAN

A Multicenter, Randomized, Double-Blind, Controlled Study of EXPAREL for Postsurgical Pain Management in Subjects Undergoing Open Lumbar Spinal Fusion Surgery

Protocol No.: 402-C-409

IND No.: 69,198

Study Phase: 4

Study Drug: EXPAREL (bupivacaine liposome injectable

suspension)

Date/Version: 2 August 2017 (Amendment 2)

Prepared by: Napoleon Oleka, PhD

Pharma Data Associates, LLC

Sponsor: Pacira Pharmaceuticals, Inc.

5 Sylvan Way

Parsippany, NJ 07054 Tel: 973-254-3560

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1. SIGNATURE PAGE

Napoleon Oleka, PhD Associate Director, Biostatistics Pharma Data Associates. LLC	O8MAR2018 Date
Cher Mp	08 March 2018
Chao Wang, PhD President and Principal Statistician Pharma Data Associates. LLC	Date
Vincent Yu, PhD Senior Director, Biometrics Pacira Pharmaceuticals, Inc.	Date
22	3/15/18
Simon Dagenais, MD PhD Senior Medical Director, Clinical Research	Date
Richard Scranton Digitally signed by Richard Scranton DN: cnreRchard Scranton, o-Pacifa Pharmaceutical Inc., our Child Scientific Officer, entall-Bichard Scranton pacificacom, c-US Date: 2018.03.1607-5131-0400	3/16/2018
Rich Scranton, MD, MPH Chief Scientific Officer	Date
Michael Rozycki Digitally signed by Michael Rozycki DN: cn=Michael Rozycki, o=Regulatory Affairs, ou=Clinical Regulatory, email=michael.rozycki@pacira.com, c=US Date: 2018.03.1511:37:47-04'00'	
Michael Rozycki, PhD Vice President, Regulatory Affairs and Pharmacovigi	Date

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3. LIST OF ACRONYMS/ABBREVIATIONS

Abbreviation	Description
AE	Adverse event
ATC	Anatomical therapeutic class
AUC	Area under the curve
BMI	Body mass index
CRF	Case report form
CSR	Clinical study report
d	days
ECG	Electrocardiogram
EMA	European Medicines Agency
ER	Emergency room
FDA	Food and Drug Administration
FSH	Follical stimulating hormone
GCP	Good Clinical Practice
ICF	Informed consent form
ICH	International Conference on Harmonization
IEC	Independent Ethics Committee
IND	Investigational New Drug
IRB	Institutional Review Board
IV	Intravenous
LIA	Local infiltration analgesia
LOS	Length of stay
MedDRA	Medical dictionary for regulatory affairs
min, m	minutes
MPADSS	Modified Post-Anesthesia Discharge Scoring System
n	Number of subjects
OBAS	Overall Benefit of Analgesia Score
OR	Operating room
PACU	Post-anesthesia care unit
PK	Pharmacokinetic(s)
PT	Preferred Term
NRS	Numeric rating scale
NRS-R	Numeric rating scale at rest
SAE	Serious adverse event
SAP	Statistical analysis plan
SD	Standard deviation
SE	Standard error
SOC	System Organ Class
TEAE	Treatment-emergent adverse event
VAS	Visual analog scale
WHO-DD	World Health Organization – Drug Dictionary
WOCB	Women of child-bearing potential
yrs	years

INTRODUCTION

This is a Phase 4, Multicenter, Randomized, Double-Blind, Controlled Study of EXPAREL for Postsurgical Pain Management in Subjects Undergoing Open Lumbar Spinal Fusion Surgery. Approximately 194 adult subjects undergoing primary, 1-2 level, open lumbar spinal fusion surgery under general anesthesia are planned for enrollment, in order to have at least 184 evaluable subjects.

This study was prematurely terminated by the sponsor. At the time of termination, the study has enrolled and treated 38 subjects.

The purpose of this SAP is to outline how the collected data will be summarized and presented for the abbreviated study report.

This SAP is developed based on

- Protocol 402-C-409 Amendment 2 issued on 2 August 2017.
- CRF version 1.0 issued on 30 September 2016.

The reader of this SAP is encouraged to also read the clinical protocol and other identified documents for details on the planned conduct of this study. Operational aspects related to collection and timing of planned clinical assessments are not repeated in this SAP unless relevant to the planned analyses.

4. STUDY OBJECTIVES

4.1. Primary Objective

The primary objective of this study is to compare postsurgical pain control following local infiltration analgesia (LIA) with EXPAREL admixed with bupivacaine HCl versus LIA with bupivacaine HCl in adult subjects undergoing open lumbar posterior spinal fusion surgery.

4.2. Secondary Objectives

The secondary objectives of this study are to compare additional efficacy, safety, and health economic outcomes following LIA with EXPAREL admixed with bupivacaine HCl versus LIA with bupivacaine HCl in adult subjects undergoing open lumbar posterior spinal fusion surgery.

5. STUDY OVERVIEW

Subjects were screened within 30 days prior to study drug administration and at least one day prior to surgery. During the screening visit, subjects were assessed for past or present neurologic, cardiac, and general medical conditions that in the opinion of the Investigator would preclude them from study participation. After the informed consent form (ICF) was signed, a medical history, surgical history, physical examination, 12-lead electrocardiogram (ECG), vital sign measurements, clinical laboratory evaluations, urine drug screen, alcohol breath test, and urine pregnancy test for women of childbearing potential were collected (see Time and Events Schedule of Study Procedures in Section 12).

Subjects were randomized 1:1 to two treatment groups and stratified by surgery level (1-Level or 2-Level). Subjects in Group 1 received LIA with EXPAREL admixed with bupiviaine HCl and subjects in Group 2 received LIA with bupivacaine HCl.

6. **DEFINITIONS**

Study Day

Study Day is calculated as the date of event minus the date of study drug administration plus one (1), if the date of event is on or after the date of study drug administration. Study Day equals the date of event minus the date of study drug administration if the date of event is before the date of study drug administration. Study days before the date of study drug administration will have negative values while those on or after the date of study drug administration are positive.

Treatment-emergent Adverse Events

Treatment-emergent adverse events (TEAEs) are AEs that occur after the administration of the study treatment through 30 days.

Time 0 (zero)

Time 0 is defined as the date and time of the start of study drug administration.

Study Baseline

Study Baseline is defined as the last available measurement or assessment prior to the start of study drug administration.

7. ANALYSIS SET

All Subjects: all the listings presented in this SAP will be based on all randomized subjects, unless specified otherwise.

8. STATISTICAL METHODS

8.1. General Principles

Only listings of subject data collected during the study will be provided. All listings will be sorted by treatment group, site ID, subject ID, and, if applicable, collection date and time.

8.1.1. Handling Missing Values

Data will be included in the listing as is. No imputed values will be included in the listings. However, in order to provide the drug safety profile, the missing or partial date/time will be imputed only for the determination of treatment emergency or prior/concomitant status.

8.1.1.1. Study Drug Administration Date or Time

It is expected that all necessary information on study drug administration (start and stop date and time) will be complete. Any such information that is missing and cannot be obtained through

query resolution may be imputed, on a case-by-case basis, in a conservative manner that minimizes bias.

8.1.1.2. Adverse Event or Concomitant Medications Dates or Times

For AEs or concomitant medications with missing or partially missing start/stop date/time, the following imputation rules will be applied when determining AE treatment-emergent status or medication prior/concomitant status:

For partial start date/time:

- If the year is unknown, then the date will be assigned as the date and time of first dose of study treatment.
- If the month is unknown, then:
 - i) If the year matches the year of study drug administration, then the month and day will be imputed to be the date and time of the first dose of study treatment.
 - ii) Otherwise, 'January' will be assigned.
- If the day is unknown, then:
 - i) If the month and year match the month and year of the dose of the study drug administration date, then the day will be imputed to be the day of study drug administration date.
 - ii) Otherwise, '01' will be assigned.
- If the time is unknown, then:
 - i) If the date (day, month, and year) matches the date of administration of study drug, then the time will be imputed to be the time of dose of study drug date.
 - ii) Otherwise, '00:00' will be assigned.

8.2. Subject Disposition

A listing of subject disposition will be provided, which will include information on study completion status among others.

8.3. Demographics and Baseline Characteristics

8.3.1. Demographics

Listing of demographic data will include:

- Age (years)
- Sex
- Ethnicity
- Primary Race

Age is presented as collected.

8.3.2. Baseline Characteristics

Listing of baseline characteristic data will include:

• Height (cm)

Weight (kg) Body Mass Index (BMI) (kg/m²)

The formula for BMI is $w/(h^2)$, where w is weight in kilograms and h is height in meters. Weight in pounds will be converted to kilograms using the conversion factor of 2.2046 pounds to 1 kilogram. Height in inches will be converted to centimeters using the conversion factor of 2.54 centimeters to 1 inch. Height in centimeters will be converted to meters using the conversion factor of 100 centimeters to 1 meter.

8.4. Prior and Concomitant Medications

Prior and concomitant medications will be coded using the World Health Organization Drug Dictionary (WHO-DD Sept. 2016 Enhanced) and will be classified according to the anatomical therapeutic chemical (ATC) classification system term (Level 4) and preferred name.

Prior medications are defined as medications with a stop date and time prior to the start of study drug administration.

Concomitant medications are defined as medications taken after the start of study drug administration (i.e., started prior to the start of study drug administration and continued after or started after the start of study drug administration).

Listing of prior and concomitant medications will include subject identification, treatment group, ATC class term and preferred name among others.

8.5. Study Drug Exposure

A listing of study drug exposure, which includes volume of injection administered, will be provided.

8.6. Efficacy Analysis

Listing of the following efficacy assessments will be provided:

- -Pain intensity scores using the VAS
- -Pain Interference Scale (short form 6b)
- -Opioid rescue analgesics consumption
- -Treatment-emergent opioid-related AEs
- -OBAS questionnaire at 24, 48, and 72 hours or upon hospital discharge
- -Nurse's satisfaction with overall analgesia
- -Modified Postanesthesia Discharge Scoring System (MPADSS) criteria for discharge readiness

8.7. Health Economic Outcomes

Listing of the following health economic outcomes assessments done during the study will be provided: hospital length of stay (LOS), hospital readmissions, use of skilled nursing facility, and use of other health services following hospital discharge.

8.8. Safety Analyses

8.8.1. Adverse Events

Adverse events will be coded using the Medical Dictionary for Regulatory Activities (MedDRA version 19.1 or later).

A treatment emergent adverse event (TEAE) is any adverse event with the onset date and time on or after the start date and time of study drug administration through postsurgical Day 30. Cardiac AEs of special interest include chest pain (angina, myocardial infarction), abnormal/irregular heart rate (bradycardia, tachycardia, extrasystoles), and shortness of breath requiring intervention. Neurologic AEs of special interest include altered mental status/altered sensorium, rigidity, dysarthria, seizure, tremors, metallic taste, tinnitus, perioral numbness, visual disturbance, and severe or worsening dizziness. In addition, the following events are of special interest if they persist or occur beyond 72-hours postdose: dizziness, hyperesthesia, muscular twitching, and tingling/paresthesia.

If an AE has a partial onset date and time the imputed start and stop dates and times will be used to determine treatment-emergence (e.g., an AE with stop date and time before the start date and time of study treatment is not treatment-emergent).

A listing of all AEs will be provided, with a flag indicating TEAEs.

8.8.2. Vital Signs

Vital signs are resting heart rate (bpm), respiratory rate (beats per minute), oral body temperature (°C), systolic blood pressure (mmHg), and diastolic blood pressure (mmHg).

Listing of all vital signs collected at screening/Day 1 (pre-op) will be provided.

8.8.3. Electrocardiograms

Data listings for ECG parameters collected at screening will be provided. The investigator's overall interpretation will be included.

8.8.4. Physical examination

Listing of physical examination data collected at screening will be provided.

8.8.5. Clinical Laboratory

Listing of all clinical laboratory (hematology, chemistry, and urinalysis) tests collected at screening will be provided.

8.8.6. Other Analysis (urine drug screen, pregnancy test, alcohol breath test)

A data listing of these will be provided.

8.9. Pharmacokinetic Analysis

Drug concentrations are collected to assist the interpretation of adverse events. A data listing will be provided.

9. SAMPLE SIZE CALCULATIONS

The sample size was calculated based on VAS pain and total opioid results reported in Hughes et al (2016) and length of stay reported in the paper by Zheng et al (2002). Based on the reported efficacy for VAS pain intensity scores and assuming a 2-sided 0.05 alpha and a common SD of 70, a sample size of 50 subjects per treatment group should have at least 80% power to detect a 40-unit treatment difference. For total opioid consumption assuming a 2-sided 0.05 alpha and common standard deviation of the log-dose of 0.6 and 80% power a sample size of 64 subjects per treatment group is needed to detect a 30% difference in total opioid consumption through 48 hours. For length of stay assuming a 2-sided 0.05 alpha and common standard deviation of 2.4 and 80% power a sample size of 92 subjects per treatment group is needed to detect a 1 day difference in length of stay. Allowing for a 5% drop-outs rate a sample size of 97 subjects per treatment group should be enrolled to ensure 92 subjects provide length of stay data. A total study sample size of 184 evaluable subjects will provide 80% power to detect a 1-day difference in length of stay; 92% power to detect a 30% difference in total opioid consumption; and 97% power to detect a 40 point difference in VAS-AUC₍₀₋₇₂₎.

10. TIME AND EVENTS SCHEDULE OF STUDY PROCEDURES

Pacira Pharmaceuticals, Inc.

402-C-409 (Spinal Fusion)

EXPAREL®

Clinical Study Protocol Amendment 2

Table 1. Time and Events Schedule of Study Procedures

Visit Time Within With	Table 1. Time and Events Sched	die di St	Screen	D1	0		PACU								Ī							D14	D30
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Record medical and surgical history X X X³	Obtain signed ICF		X																				
Record demographics and baseline characteristics	Assess/confirm eligibility		X	Xa																			
Conduct pregnancy test for WOCBP	Record medical and surgical history		X	Xa																			
Conduct urine drug screen	Record demographics and baseline characteristics		X																				
Alcohol breath test X X X X X X X X X X X X X X X X X X X	Conduct pregnancy test for WOCBP		X																				
Perform physical examination	Conduct urine drug screen		X	Xª																			
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Abbreviations: AE = adverse event; ALT = alanine transaminase; AST = aspartate transaminase; d = day; D = day; ECG = electrocardiogram; ER = emergency room; GGT=Gamma-glutamyl transpeptidase; h = hours; ICF = informed consent form; LDH = lactate dehydrogenase; min = minutes; OBAS = overall benefit of analgesia score; OR = operating room; PACU = post-anesthesia care unit; Preop = preoperative; q12h = every 12 hours; VAS = visual analog scale; WOCBP = women of childbearing potential.

- a: If the Screening Visit is conducted within 10 days of the date of surgery, the following Day-1 pre-op assessments are not required: assess/confirm eligibility; record medical and surgical history; conduct pregnancy test for WOCBP; conduct urine drug screen; and measure vital signs (temperature, heart rate, respiratory rate and blood pressure)
- * Postsurgical assessments will be conducted at the timepoints specified after the end of surgery. All assessments conducted after baseline (ie, study drug administration) will be timed from the end of surgery, defined as the time of last suture/staple. At timepoints when multiple assessments coincide, the VAS pain intensity assessment will be conducted first.
- Timepoints shown through 72 hours. Note: if discharge occurs before 72 hours, the study coordinator must stress to the patient the importance of completing the scheduled pain intensity assessments up to 72 hours. These assessments should be recorded by the patient in the patient log provided upon discharge.
- 2 The preoperative pain intensity assessment should be conducted prior to administration of any premedication.
- 3 Also record VAS pain intensity scores immediately prior to each administration of rescue pain medication, and just prior to hospital discharge.
- 4 And just prior to hospital discharge. Note: if discharge occurs before 72 hours, the study coordinator must stress to the patient the importance of completing the scheduled OBAS questionnaire up to 72 hours. Completion of the questionnaire should be recorded by the patient in the patient log provided upon discharge.
- 5 Administer presurgical analgesics (ie, acetaminophen 975-1000 mg orally (PO), celecoxib 200 mg PO [or naproxen 500 mg PO twice a day or meloxicam 7.5 mg PO once a day in case of allergy], and gabapentin up to 900 mg PO).
- 6 Administer scheduled post-surgical analgesics (ie, acetaminophen 975-1000 mg PO every 8 hours (q8h) [maximum of 3000 mg per day; acetaminophen IV can be used if the patient is unable to tolerate oral acetaminophen], celecoxib 200 mg PO every 12 hours up to 48 hours (q12h; or naproxen 500 mg PO twice a day or meloxicam 7.5 mg PO once a day in case of allergy), cyclobenzaprine 10 mgq8h, and gabapentin up to 900 mg PO q8h).
- 7 Instruct subject to discontinue prohibited medications. Record date and time of all medications starting at least 30 days prior to study drug administration until hospital discharge. Record medications administered for treatment of an AE through Day 30.
- If a cardiac AE (eg, chest pain [angina, myocardial infarction], abnormal/irregular heart rate [bradycardia, tachycardia, extrasystoles], or shortness of breath), neurological AE (eg, altered mental status/altered sensorium, dizziness, dysarthria, hyperesthesia, metallic taste, peroral numbness, seizure, tinnitus, tremors, visual disturbance, muscular twitching or rigidity beyond 72 hours postdose, or tingling/paresthesia beyond 72 hours postdose), or serious AE (SAE) occurs during the study, a 12-lead ECG, vital signs, PK draw, and any appropriate clinical laboratory tests should be conducted as close as possible to when the event occurs.

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Pacira Pharmaceuticals
Listing 16.1-7: Randomization - All Subjects

(Page X of Y)

			Randomi	zation			
Subject	Site Number	Date/ Day[1]	Time	Number	Treatment	Surgery type	Screw type
XXX-YYYY	XXX	yyyy-mm-dd/ xxx	hh:mm	XXXXX	XXXXXX	2-Level	pedicle

[1]Day = Visit date - first dose date +1 if Visit is on/after first dose; Otherwise Day=Visit date - first dose date.

Source: list SAS datasets used to create table M:\402C409\production\programs\tlf\L16 1-7.sas

DateTime

Note to programmer: Analysis set will by 'Y' if subject in set, blank otherwise.

Pacira Pharmaceuticals, Inc.	402-C-409
EXPAREL	Statistical Analysis Plan

Pacira Pharmaceuticals (Page X of Y) Protocol: 402-C-409 Listing 16.2-1: Subject Disposition - All Subjects

Treatment:						
	Informed		First	Last	End of	
	Consent	Randomization	Dose	Visit	Study	Primary Reason for
Subject	Date/ Day[1]	Date/ Day[1]	Date/ Day[1]	Date/ Day[1]	Status	Early Termination
XXX-YYYY	yyyy-mm-dd/ xxx	yyyy-mm-dd/ xxx	yyyy-mm-dd/ xxx	yyyy-mm-dd/ xxx	Completed	Study Terminated By Sponsor

[1]Day = Visit date - first dose date +1 if Visit is on/after first dose; Otherwise Day=Visit date - first dose date.

Source: list SAS datasets used to create table M:\402C409\production\programs\tlf\L16 2-1.sas

DateTime

Note to programmer: End of study status for subject who early terminated from the study is the primary reason for termination. If subject discontinued due to an AE then the reason should read 'ADVERSE EVENT, AE # X'. If subject discontinued due to death the reason should read 'DEATH ON DDMONYYYY'. For those reasons that also collected a specify text, concatenate into "Primary Reason" as "Other, Specify: ...".

Pacira Pharmaceuticals, Inc.	402-C-409
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Pacira Pharmaceuticals Listing 16.2-2: Demographics - All Subjects				S	(Page X of Y	7)		Prot	ocol: 402-C-409
Treatment	:								
	Subject		Age		Child Bearing			ASA	
Subject	Initials	Birth Date	(yrs)	Sex	Potential?	Primary Race	Ethnicity	Class	Country
									<u>.</u>

XXXXXXXXXXXXXXXX XXXXXXX

Source: list SAS datasets used to create table M:\402C409\production\programs\tlf\L16_2-2.sas

XXX-YYYY AMZ yyyy-mm-dd XX XXXXXX

DateTime

XXXXXXX

Note to programmer: If Primary Race is 'other' then Primary Race should be 'Other: other-specify-text'.

Pacira Pharmaceuticals, Inc.	402-C-409
EXPAREL	Statistical Analysis Plan

Pacira Pharmaceuticals (Page X of Y) Protocol: 402-C-409

Listing 16.2-3: Baseline Characteristics - All Subjects

Treatment:

rreatment:				Body Mass Index
Subject	Date	Height (cm)	Weight (kg)	(kg/m²)
XXX-YYYY	yyyy-mm-ddThh:mm	XXX.X	XXX.X	XX.X

Source: list SAS datasets used to create table M:\402C409\production\programs\tlf\L16_2-3.sas

Pacira Pharmaceuticals, Inc.	402-C-409	
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Pacira Pharmaceuticals	(Page X of Y)	Protocol: 402-C-409

Treatment:						
Subject	Date of Deviation / Day[1]	Time of Deviation	Deviation Type	Deviation Description	Action Taken	If Other, specify
XXX-YYYY	yyyy-mm-dd/ xxx	Thh:mm	Study Drug Error	xxxxxxxxxxxxx	Staff Retraining	

Source: list SAS datasets used to create table M:\402C409\production\programs\tlf\L16_2-4.sas

Listing 16.2-4: Protocol Deviation - All Subjects

^[1] Day = Visit date - first dose date +1 if Visit is on/after first dose; Otherwise Day=Visit date - first dose date.

Pacira Pharr EXPAREL	maceuticals, Inc.		402-C-409 Statistical Analysis Plan		
	narmaceuticals 6.2-5: Inclusion	Exclusion Crite	X of Y)	Protocol: 402-C-409	
Treatment	Met all				
Subject	eligibility criteria?	Category	Criterion ID Failed	Protocol Version Enrolled under	
		<u> </u>			
XXX-YYYY	No	Exclusion		Original	

Source: list SAS datasets used to create table M:\402C409\production\programs\tlf\L16_2-5.sas

Pacira Ph	armaceuticals (Page X of	Y)		Protocol: 402-C-409
Listing 1	6.2-6: Medical History - All Subjects			
Treatment	:			
	V: Verbatim Term			
Subject	S: System Organ Class[1]	Start	Stop	
ID	P: Preferred Term[1]	Date	Date	
xxx-xxxx	V: vvvvvvvvvvvvvvvvvvv	YYYY-MM-DD	YYYY-MM-DD	
	S: ssssssssssssssssss			
XXX-XXXX	P: pppppppppppppppppp			
xxx-xxxx	V: vvvvvvvvvvvvvvvvvvvv	YYYY	Ongoing	
	S: ssssssssssssssssss			
xxx-xxxx	P: ppppppppppppppppp			
xxx-xxx	V: vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv	YYYY-MM-DD	Ongoing	
	S: ssssssssssssssssssssssss			
xxx-xxxx	P: pppppppppppppppppppppppppppppppppppp			
	V: vvvvvvvvvvvvvvvvvvvv	YYYY-MM	Ongoing	
	S: sssssssssssssssssssssssssssss			
	P: ppppppppppppppppp			
xxx-xxxx	V: vvvvvvvvvvvvvvvvvvvvvvvvvvv	YYYY-MM-DD	YYYY-MM-DD	
	S: sssssssss			
	P: ppppppppppp			

Programming note: For subjects with multiple records, present in the order of onset date.

Source: list SAS datasets used to create table M:\402C409\production\programs\t1f\ $L16_2-6.sas$ DateTime

^[1] MedDRA vxx.x.

Pacira Pharmaceuticals, Inc.	
EXPAREL	

402-C-409 Statistical Analysis Plan

Protocol: 402-C-409

Pacira Pharmaceuticals Listing 16.2-7: Study Drug Exposure - All Subjects (Page X of Y)

Treatment:				
		Start	Stop	Total Volume
Subject	Date/ Day[1]	Time	Time	(mL)
XXX-YYYY	vvvv-mm-dd/ xxx	HH:MM	HH:MM	XXX

[1] Day = Visit date - first dose date +1 if Visit is on/after first dose; Otherwise Day=Visit date - first dose date.

Source: list SAS datasets used to create table M:\ $402C409\production\programs\tlf\L16_2-7.sas$

Pacira Pharmaceuticals (Page X of Y) Protocol: 402-C-409
Listing 16.2-8: Visits - All Subjects

Treatment	:		
Subject	Visit	Visit Date/ Day[1]	
XXX-YYYY	Screening	yyyy-mm-dd/ xxx	
	D1 (Preop)	yyyy-mm-dd/ xxx	
	D14	yyyy-mm-dd/ xxx	
	D30 Call	yyyy-mm-dd/ xxx	

Source: list SAS datasets used to create table M:\ $402C409\production\programs\tlf\L16_2-8.sas$

^[1] Day = Visit date - first dose date +1 if Visit is on/after first dose; Otherwise Day=Visit date - first dose date.

Pacira Pharmaceuticals (Page X of Y) Protocol: 402-C-409

Listing 16.2-9.1: Admission and Discharge - All Subjects
Treatment:

Subject	Date of admission to surgical facility/ Day[1]	Time of admission to surgical facility	Date of admission to PACU/ Day[1]	Time of admission to PACU	Date of discharge from surgical facility/ Day[1]	Time of discharge from surgical facility
XXX-YYYY	yyyy-mm-dd/ xxx	hh:mm	yyyy-mm-dd/ xxx	hh:mm	yyyy-mm-dd/ xxx	hh:mm
XXX-YYYY	yyyy-mm-dd/ xxx	hh:mm	yyyy-mm-dd/ xxx	hh:mm	yyyy-mm-dd/ xxx	hh:mm
XXX-YYYY	yyyy-mm-dd/ xxx	hh:mm	yyyy-mm-dd/ xxx	hh:mm	yyyy-mm-dd/ xxx	hh:mm
XXX-YYYY	yyyy-mm-dd/ xxx	hh:mm	yyyy-mm-dd/ xxx	hh:mm	yyyy-mm-dd/ xxx	hh:mm

[1] Day = Visit date - first dose date +1 if Visit is on/after first dose; Otherwise Day=Visit date - first dose date.

Source: list SAS datasets used to create table M:\402C409\production\programs\tlf\L16_2-9_1.sas

Pacira Pharmaceuticals	(Page X of Y)	Protocol: 402-C-409
Listing 16.2-9.2: Surgery - All Subjects		

Treatment:

Subject	Date/ Day[1]	Start Time	End Time	Procedure Name	Level of Surgery	Surgery performed by	Total Incision Length	Type of Anesthesia	Intraoperative opioids administered?
XXX-YYYY	yyyy-mm-dd/ xxx	hh:mm	hh:mm					Other:xxx_specify_	No
XXX-YYYY	yyyy-mm-dd/ xxx	hh:mm	hh:mm						
XXX-YYYY	yyyy-mm-dd/ xxx	hh:mm	hh:mm						
XXX-YYYY	yyyy-mm-dd/ xxx	hh:mm	hh:mm						

[1] Day = Visit date - first dose date +1 if Visit is on/after first dose; Otherwise Day=Visit date - first dose date.

Source: list SAS datasets used to create table M:\402C409\production\programs\tlf\L16 2-9 2.sas

Pacira Pharmaceuticals (Page X of Y) Protocol: 402-C-409 Listing 16.2-10: Pain Intensity - Visual Analog Scale - All Subjects

Treatment:

Subject	Date/ Day[1]	Timepoint	Time	Pain assessment [2]
XXX-YYYY	yyyy-mm-dd/ xxx	PACU Arrival	hh:mm	XXX
	yyyy-mm-dd/ xxx	4 Hours	hh:mm	XXX
	yyyy-mm-dd/ xxx	6 Hours	hh:mm	XXX
	yyyy-mm-dd/ xxx	8 Hours	hh:mm	XXX

. . .

Source: list SAS datasets used to create table M:\402C409\production\programs\tlf\L16 2-10.sas

^[1] Day = Visit date - first dose date +1 if Visit is on/after first dose; Otherwise Day=Visit date - first dose date.

^[2] How much pain are you experiencing right now (in VAS, cm)?

Pacira Pharmaceuticals (Page X of Y) Protocol: 402-C-409 Listing 16.2-11: Pain Interference - All Subjects

Treatment:

Subject	Date/ Day[1]	Timepoint	Question	Res ponse[2]
			In the past seven days,	
XXX-YYYY	yyyy-mm-dd/ xxx	24 Hours	1. How much did pain interfere with your enjoyment of life?	2
			2. How much did pain interfere with your ability to concentrate?	1
			3. How much did pain interfere with your day to day activities?	1
			4. How much did pain interfere with your enjoyment of recreational	
			activities	4
			5. How much did pain interfere with doing your tasks away from home?	5
			6. How often did pain keep you from socializing with others?	3

. . .

Source: list SAS datasets used to create table M:\402C409\production\programs\tlf\L16 2-11.sas

DateTime

Note to programmer: Sort by date and time within subject.

Continue for Timepoint = 48 Hours, 72 Hours

^[1]Day = Visit date - first dose date +1 if Visit is on/after first dose; Otherwise Day=Visit date - first dose date.

^[2] For questions 1 to 5, 1 = Not at all, 2 = A little bit, 3 = Somewhat, 4 = Quite a bit, 5 = Very much. For question 6, 1 = Never, 2 = Rarely, 3 = Sometimes, 4 = Often, 5 = Always.

Pacira Pharmaceuticals	(Page X of Y)	Protocol: 402-C-409
Listing 16.2-12: Discharge Readiness - All Subjects		
Treatment:		

Subject	Timepoint	Date/ Day[1]	Time	Vital Sign[2]	Ambu Lation[3]	Nausea and Vomiting[4]		Surgical Bleeding[4]
XXX-YYYY	Day of Surgery	yyyy-mm-dd/ xxx	hh:mm	2	1	0	1	2

^[1] Day = Visit date - first dose date +1 if Visit is on/after first dose; Otherwise Day=Visit date - first dose date.

Source: list SAS datasets used to create table M:\ $402C409\production\programs\tlf\L16_2-12.sas$

DateTime

Note to programmer:

Sort by date and time within subject.

Continue for Timepoint = Day 2 Morning, Day 2 Evening, Discharge

^[2] 2 = <=20% of preoperative value, 1 = 20%-40% of preoperative value, 0 = >40% of preoperative value

^{[3] 2 =} Steady gait/no dizziness, 1 = With assistance, 0 = None/dizziness

^{[4] 2 =} Minimal, 1 = Moderate, 0 = Severe

Pacira Pharmaceuticals, Inc.

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Statistical Analysis Plan

Pacira Pharmaceuticals (Page X of Y) Protocol: 402-C-409

Listing 16.2-13: Nurse Satisfaction - All Subjects Treatment:

Subject	Date/ Day[1]	Time	Timepoint	Nurse's Overall Satisfaction [2]
XXX-YYYY	yyyy-mm-dd/ xxx	hh:mm	24 Hours	2

. . .

Source: list SAS datasets used to create table M:\402C409\production\programs\tlf\L16 2-13.sas

DateTime

Note to programmer:

Sort by date and time within subject.

Continue for Timepoint = 48 Hours, 72 Hours

^[1] Day = Visit date - first dose date +1 if Visit is on/after first dose; Otherwise Day=Visit date - first dose date.

^[2] Nurse's overall satisfaction with the pain medication received after surgery:

^{1 =} Extremely dissatisfied, 2 = Dissatisfied, 3 = Neither satisfied nor dissatisfied,

^{4 =} Satisfied, 5 = Extremely satisfied

Pacira Pharmaceuticals (Page X of Y) Protocol: 402-C-409

Listing 16.2-14: OBAS Questionnaire - All Subjects
Treatment:

					Res
Subject	Date/ Day[1]	Time	Timepoint	Question	ponse
XXX-YYYY	yyyy-mm-dd/ xxx	hh:mm	24 Hours	 Was the OBAS Questionnaire Completed? Please rate your current pain at rest Please grade any distress and bother from vomiting in the past 24 h Please grade any distress and bother from itching in the past 24 h Please grade any distress and bother from sweating in the past 24 h Please grade any distress and bother from freezing in the past 24 h Please grade any distress and bother from dizziness in the past 24 h How satisfied are you with your pain treatment during the past 24 h Number of days in the Nursing Facility 	

[1]Day = Visit date - first dose date +1 if Visit is on/after first dose; Otherwise Day=Visit date - first dose date.

Source: list SAS datasets used to create table M:\ $402C409\production\programs\tlf\L16\ 2-14.sas$

DateTime

Note to programmer: Sort by date and time within subject.

Continue for Timepoint = 48 Hours, 72 Hours

Pacira Pharmaceuticals Protocol: 402-C-409 (Page X of Y) Listing 16.2-15: Last Phone Call - All Subjects

Treatment:

Subject	Date/ Day[1]	Question	Response
XXX-YYYY	yyyy-mm-dd/ xxx	1. Was Day 29 Phone Call made to the subject?	Yes
		2. Were there any unscheduled pain-related calls since subject discharge?	Yes
		3. Number of pain-related phone calls	2
		4. Were there any unscheduled pain-related visits since subject discharge?	No
		5. Number of pain-related office visits	0
		6. Were there any Emergency Department Visits since subject discharge?	Yes
		7. Number of Emergency Department Visits	1
		8. Was there any Skilled Nursing Facility admission since subject discharge?	No
		9. Number of days in the Nursing Facility	0
		10. Was there any hospital readmission since subject discharge?	No
		11. Number of hospital readmission	0

[1] Day = Visit date - first dose date +1 if Visit is on/after first dose; Otherwise Day=Visit date - first dose date.

Source: list SAS datasets used to create table $M: \402C409\production\programs\tlf\Ll6_2-15.sas$

DateTime

402-C-409

Note to programmer: Sort by date within subject.

Pacira Pharmaceuticals Listing 16.2-16.1: All Adverse Events - All S			ll Su	ıbj∈	(Page X of Y)	Protocol: 402-C-409				
Treatmernt:										
Subject ID	Start Date/ Day[1]	Stop Date/ Day[1]	Duration (Day)[2]	TEAE	S:	Verbatim System Organ Class[3] Preferred Term[3]	S: Severity R: Relationship SAE: Serious	F: Frequency A: Action Taken O: Outcome	I:	AESI
xxxxx	YYYY-MM-DD/ XXX	YYYY-MM-DD/ XXX	′ XXX	Yes	s:	vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv	S: Moderate R: Not Related SAE: Death	F: xxx A: Hospitalization O: Fatal		
	YYYY-MM-DD/ XXX	YYYY-MM-DD/ XXX	′ XXX	Yes	S:	vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv	S: Mild R: Possible SAE: Life Threatening	F: xxx A: Study Drug Disc O: Recovered		
xxxxx	YYYY-MM-DD/ XXX	YYYY-MM-DD/ XXX	′ XXX	No	s:	vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv	S: Severe R: Probable SAE: Incapacity	F: xxx A: Nonpharm Therapy O: Recovered with Sequelae		
	YYYY-MM-DD/ XXX			Yes	S:	vvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvvv	S: Severe R: Definite SAE: Hospital	F: xxx A: Other: xxx O: Not Recovered		
Program	nming instruct	tions: Sort	by Subjec	ct ID		hen Start Date.	SAL. MOSPICAL	o. Not Recovered		

TEAE: Treatment-emergent AE (Yes=TEAE/No=Not TEAE)

[1] Day=event date - first dose date +1 if event occurred on/after first dose; Otherwise Day=event date - first dose date.

- [2] Duration=Stop Date Start Date +1.
- [5] MedDRA version 19.0.

Source: list SAS datasets used to create table M:\402C409\production\programs\tlf\L16_2-16_1.sas

DateTime

Note to programmer: If AE is ongoing, put ONGOING in stop row. Do not split an AE across pages. Insert a page break between subjects.
Use this mock-up for the following listings:

Listing 16.2-16.2: All Serious Adverse Events - All Subjects

```
Listing 16.2-16.3: Treatment-emergent Serious Adverse Events - All Subjects
Listing 16.2-16.4: Treatment-emergent Serious Adverse Events leading to study discontinuation - All Subjects
Listing 16.2-16.5: Treatment-emergent Opioid-Related Adverse Events - All Subjects
Listing 16.2-16.6.1: Cardiac Treatment-emergent Adverse Events of Special Interest - All Subjects
Listing 16.2-16.6.2: Neurologic Treatment-emergent Adverse Events of Special Interest - All Subjects
```

Note:

Cardiac AEs of special interest include chest pain (angina, myocardial infarction), abnormal/irregular heart rate (bradycardia, tachycardia, extrasystoles), and shortness of breath requiring intervention. Neurologic AEs of special interest include altered mental status/altered sensorium, rigidity, dysarthria, seizure, tremors, metallic taste, tinnitus, perioral numbness, visual disturbance, and severe or worsening dizziness. In addition, the following events are of special interest if they persist or occur beyond 72-hours postdose: dizziness, hyperesthesia, muscular twitching, and tingling/paresthesia.

Pacira Pharmaceuticals, Inc.	402-C-409
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Tieting 16 2-17. Pharmacokinotics - All Subjects		

Treatment:

Subject	Collection Date/ Day[1]	Collection Time	Vaule	Reason for PK Collection	If Other, Specify
XXX-YYYY	yyyy-mm-dd/ xxx	hh:mm hh:mm hh:mm hh:mm	xxx xxx xxx	AE Special Interest Other SAE	xxxxxxxxxxx

• •

. . .

Source: list SAS datasets used to create table M:\ $402C409\production\programs\tlf\L16_2-17.sas$

^[1] Day = Visit date - first dose date +1 if Visit is on/after first dose; Otherwise Day=Visit date - first dose date.

Protocol: 402-C-409

Pacira Pharmaceuticals (Page X of Y)

Listing 16.2-18: Vital Signs Assessment - All Subjects

Treatment:

				Heart	Oral	Blood Pres	sure (mmHg)
Subject	Date/ Day[1]	Time	Timepoint	Rate (bpm)	Temperature (°C)	Systolic	Diastolic
XXX-YYYY	yyyy-mm-dd/ xxx	hh:mm hh:mm	Screening Day 1 (Pre-op)	XX XX	XX.X XX.X	XXX XXX	XX XX

[1] Day = Visit date - first dose date +1 if Visit is on/after first dose; Otherwise Day=Visit date - first dose date.

Source: list SAS datasets used to create table M:\402C409\production\programs\tlf\L16 2-18.sas

DateTime

Note to programmer: Sort by date and time within subject.

Pacira Pharmaceuticals (Page X of Y) Protocol: 402-C-409

Listing 16.2-19.1: Concomitant Medications - All Subjects

Treatment	t:			
	Start Date	V: Verbatim	D: Dose & Unit	Indication
	(day) [1]	D: Generic Name[2]	R: Route & Form	AE: AE number
Subject	Stop Date	C: Medication Class[2]	F: Frequency	MH: Medical History
ID	(day) [1]			_
XXXXX	YYYY-MM-DD (XX)	V: mmmmmmmmmmmmmm	D: dddddddd uuuuuuu	AE: xx
	Continuing	D: nnnnnnnnnnnnnn	R: rrrrrrr	
		C: ppppppppppp	F: ffffffff	
XXXXX	YYYY-MM-DD (XX)	V: mmmmmmmmmmmmmm	D: dddddddd uuuuuuu	MH: Hypertension
	YYYY-MM-DD (XX)	D: nnnnnnnnnnnnnn	R: rrrrrrr	
		C: ppppppppppp	F: ffffffff	
	YYYY-MM-DD (XX)	V: mmmmmmmmmmmmm	D: dddddddd uuuuuuu	Prophylactic
	, ,			riophylactic
	YYYY-MM-DD (XX)	D: nnnnnnnnnnnnnn	R: rrrrrrr	
		C: ppppppppppp	F: ffffffff	
xxxxx	YYYY	V: mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm	D: dddddddd uuuuuuu	aaaaa bbbbbb ccccc
	Continuing	D: nnnnnnnnnnnnnn	R: rrrrrrr	
	Concentating	C: ppppppppppp	F: fffffff	
		••		
	YYYY-MM	V: mmmmmmmmmmmmm	D: dddddddd uuuuuuu	aaaaa bbbbbb ccccc
	Continuing	D: nnnnnnnnnnnnnn	R: rrrrrrr	
	, and the second	C: ppppppppppp	F: ffffffff	

Programming note: Display 'Ongoing' for Stop Date if stop date is missing and the Ongoing tick box is checked. Within a subject, medications should be presented in order of earliest start date. Do not display day for incomplete dates. If Reason for Use is 'Prophylactic', display 'Prophylactic' in the respective Indication cell. If unit, route, and frequency is other, include other specify text

- [1] Day = Medication date First dose date + 1.
- [2] Preferred Term and ATC4, WHODD version xxx.

Source: list SAS datasets used to create table M:\402C409\production\programs\tlf\L16 2-19 1.sas

DateTime

Listing 16.2-19.2: Prior Medications - All Subjects

Replace foonote [1] with "Day = Medication date - First dose date"

Listing 16.2-19.3: Intraoperative Opioids - All Subjects

Listing 16.2-19.4: Rescue Medication - All Subjects

Pacira Pharmaceuticals (Page X of Y) Protocol: 402-C-409 Listing 16.2-20: Electrocardiogram Findings - Investigator Assessment - All Subjects

Treatment:						
	Assessment	Assessment				
Subject	Date/ Day[1]	Time	Visit	Finding Specify		
XXX-YYYY	yyyy-mm-dd/ xxx	hh:mm	Screening	Normal		
XXX-YYYY	yyyy-mm-dd/ xxx	hh:mm	Screening	Abormal-CS xxxxxxxxxx		

[1]Day=Visit date - first dose date +1 if Visit is on/after first dose date; Otherwise Day=Visit date - first dose date.

Source: list SAS datasets used to create table M:\402C409\production\programs\tlf\L16 2-20.sas

Pacira Pharmaceuticals (Page X of Y) Protocol: 402-C-409 Listing 16.2-21: Physical Examination - All Subjects

Treatment:

Subject	Visit	Assessment Date /Day[1]	Assessment time	Body System	Condition	Abnormality
XXX-YYYY	Screening	yyyy-mm-dd/ xxx	hh:mm	General Appearance	Normal	_
				HEENT	Abnormal	L thyroid mass- 2x3cm; immobile, nontender; NCS
				Cardiovascular	Normal	
				Bronchopulmonary	No Change	
				Abdomen/Gastrointestinal	Normal	
				Lymphatic	Normal	
				Musculoskeletal	Normal	
				<pre>Integumentary (skin, hair, nails, etc.)</pre>	Normal	
				Neurologic	Normal	
				Extremities	Normal	

[1]Day=Visit date - first dose date +1 if Visit is on/after first dose date; Otherwise Day=Visit date - first dose date.

Source: list SAS datasets used to create table M:\402C409\production\programs\tlf\L16_2-21.sas

Pacira Pharmaceuticals, Inc.	402-C-409
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Listing 16 2-22: Urine Drug Screen - All Subjects		

Treatment:

Subject	Timepoint	Date/ Day[1]	Time	Specimen Type	Result
XXX-YYYY	Screening	yyyy-mm-dd/ xxx	hh:mm	Urine	Negative

^[1] Day = Visit date - first dose date +1 if Visit is on/after first dose; Otherwise Day=Visit date - first dose date.

Source: list SAS datasets used to create table M:\ $402C409\production\programs\tlf\L16_2-22.sas$

DateTime

Note to programmer:

Sort by date and time within subject.

Pacira Pharmaceuticals	(Page X of Y)	Protocol: 402-C-409
Listing 16.2-23: pregnancy test for	Women of Child Bearing Potential - All Subjects	
Treatment:		

Subject	Timepoint	Date/ Day[1]	Time	Specimen Type	Result	
XXX-YYYY	Screening	yyyy-mm-dd/ xxx	hh:mm	Urine	Negative	

^[1] Day = Visit date - first dose date +1 if Visit is on/after first dose; Otherwise Day=Visit date - first dose date.

Source: list SAS datasets used to create table M:\ $402C409\production\programs\tlf\L16_2-23.sas$

DateTime

Note to programmer:

Sort by date and time within subject.

Pacira Pharmaceuticals (Page X of Y) Protocol: 402-C-40

Listing 16.2-24: Clinical Laboratory Tests-Hematology - All Subjects

Subject	Parameter	Reference
D	(Units)	Range Visit Date / Day[1] Result Normal Range Indicator
XXX-YYYY	Hemoglobin (g/dL)	xxx - xxx Screening YYYY-MM-DD/-XX XXXXXXXXX Normal
	Hematocrit (%)	xxx - xxx Screening YYYY-MM-DD/-XX XXXXXXXX High

Programming note: Order the lab parameters the same as shown in CRF. Any unscheduled lab results should be presented with scheduled data in date order. Number of decimal places for results should be as reported by the lab.

Source: list SAS datasets used to create table M:\402C409\production\programs\tlf\L16 2-24.sas

DateTi

Same shell for:

Listing 16.2-25: Clinical Laboratory Tests-Chemistry - All Subjects

Listing 16.2-26: Clinical Laboratory Tests-Urinalysis - All Subjects

^[1] Day = Visit date - first dose date +1 if Visit is on/after first dose; Otherwise Day=Visit date - first dose date.

Pacira Pharmaceuticals, Inc. EXPAREL		402-C-409 Statistical Analysis Plan
Pacira Pharmaceuticals Listing 16.2-27: Unique Adverse Even	(Page X of Y) ts Terms and Associated Coded Terms	Protocol: 402-C-409
MedDRA Terms		
SOC		
Preferred Term	<pre>Verbatim(s)</pre>	
SOC1	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
PT1.1	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
PT1.2	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
SOC2		
PT2.1	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	

Coded using MedDRA

Source: list SAS datasets used to create table M:\402C409\production\programs\tlf\L16_2-27.sas

DateTime

Note to programmer: Sort by SOC and preferred term in alphabetical order

Pacira Pharmaceuticals, Inc.

EXPAREL

Statistical Analysis Plan

Pacira Pharmaceuticals (Page X of Y) Protocol: 402-C-409 Listing 16.2-28: Unique Medication Terms and Associated Coded Terms Who Drug Dictionary Terms ACT1 ACT2 ACT3 ACT4 Preferred name Verbatim(s) ATC1 ATC1.2 PN1.2.1 PN1.2.2 ATC2 ATC2.2 ATC2.3 ATC2.4 PN2.2.3.4.1

Coded using Who Drug Dictionary

Source: list SAS datasets used to create table M:\402C409\production\programs\tlf\L16 2-28.sas

DateTime

Note to programmer: Sort by ATC1, ATC2, ATC3, ATC4 and preferred name in alphabetical order