Quality of Recovery after Dexamethasone, Ondansetron or Placebo Intrathecal Morphine Administration

NCT03035942

February 1st, 2018

Statistical analysis

The primary outcome was the QoR-40 score 24 hours after surgery. Murphy et al evaluated the quality of recovery in patients undergoing laparoscopic cholecystectomy with or without IV dexamethasone. The sample size estimated to achieve 80% power to detect a 17-point difference in QoR-40 was 30 subjects per group. A difference of 10 points represents a 15% improvement in the quality of recovery. Considering possible dropouts, one hundred thirty-five subjects were finally randomized into three groups. The Shapiro–Wilk test was used to test the hypothesis of a normal distribution. Ordinal and continuous data that were not normally distributed are presented as median and range and were compared using the Kruskal-Wallis test. Dunn's multiple comparisons test was used to compare groups whenever a difference was detected. Treatment comparisons were tested at a 1.67% level (Bonferroni comparison). Statistical significance (p-value) was assessed by means of a two-tailed test in all instances; values below 0.05 were considered statistically significant. Statistical analysis was performed using O IBM SPSS Statistics, version 22.

1. Murphy GS, Szokol JW, Greenberg SB, Avram MJ, Vender JS, Nisman M, Vaughn J. Preoperative dexamethasone enhances quality of recovery after
