|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Supplemental Digital Content 6:** Secondary Endpoint Results |  |  |  |  |  |  |  |
| **Outcome** | **Studies Included** | **Spinal Morphine and QL Block, or QL Block; Mean (SD) or n/N** | **Spinal Morphine, or No Block/Spinal Morphine; Mean (SD) or n/N** | **Mean Difference or Odds ratio****(99% Confidence Interval)** | **P Value for Statistical Significance** | **P Value for Heterogeneity** | **I2 Test for Heterogeneity** | **Quality of Evidence (GRADE)** |
| ***Spinal Morphine versus Spinal Morphine and Quadratus Lumborum Block*** |  |  |  |  |  |  |
| AUC for postoperative VAS scores during the first 48h (centimeter.h) | 4 | 4.6 (3.8) | 5.0 (4.3) | -0.4 (-1.1, 0.3) | 0.186 | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Rest pain at 0-2 hours (centimeter) | 2 | 0.7 (1.5) | 0.6 (0.9) | 0.1 (-0.3, 0.5) | 0.657 | 0.900 | 0% | ⊕⊕⊕⊕ |
|  |  |  |  |  |  |  |  |  |
| Rest pain at 12 hours (centimeter) | 2 | 0.9 (1.6) | 1.1 (1.8) | 0.0 (-0.5, 0.4) | 0.815 | 0.588 | 0% | ⊕⊕⊕⊕ |
|  |  |  |  |  |  |  |  |  |
| Rest pain at 24 hours (centimeter) | 4 | 1.7 (1.7) | 1.8 (2.0) | 0.0 (-0.9, 0.8) | 0.875 | 0.112 | 51% | ⊕⊕⊕⊕ |
|  |  |  |  |  |  |  |  |  |
| Rest pain at 48 hours (centimeter) | 2 | 0.8 (1.5) | 0.7 (1.4) | 0.1 (-0.4, 0.6) | 0.724 | 0.626 | 0% | ⊕⊕⊕⊕ |
|  |  |  |  |  |  |  |  |  |
| Requirement for breakthrough analgesia in recovery room\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Time to analgesic request (h)\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Duration of recovery room stay (h)\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Block performance time (min)\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Opioid-related side effects | 4 | 41/121 | 48/120 | 0.8 (0.4, 1.6) | 0.359 | 0.971 | 0% | ⊕⊕⊕⊕ |
|  |  |  |  |  |  |  |  |  |
| Block-related complications | 3 | 0/106 | 0/107 | Not applicable | Not applicable | Not applicable | Not applicable | ⊕⊕⊝⊝ |
|  |  |  |  |  |  |  |  |  |
| Time to ambulation (h)\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Time to voiding (h)\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Time to breast feeding (h)\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Patient satisfaction (centimeter)\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| ***Spinal Morphine versus Quadratus Lumborum Block*** |  |  |  |  |  |  |  |
| AUC for postoperative VAS scores during the first 48h (centimeter.h) | 4 | 4.9 (3.9) | 5.1 (3.4) | -0.2 (-0.7, 0.5) | 0.321 | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Rest pain at 0-2 hours (centimeter) | 4 | 0.8 (1.1) | 0.6 (0.8) | 0.1 (-0.3, 0.4) | 0.511 | 0.084 | 55% | ⊕⊕⊕⊝ |
|  |  |  |  |  |  |  |  |  |
| Rest pain at 12 hours (centimeter) | 2 | 1.3 (1.1) | 2.1 (1.5) | -1.1 (-3.8, 1.6) | 0.289 | <0.00001 | 97% | ⊕⊕⊕⊝ |
|  |  |  |  |  |  |  |  |  |
| Rest pain at 24 hours (centimeter) | 4 | 1.7 (1.5) | 2.0 (1.7) | -0.3 (-1.8, 1.3) | 0.659 | <0.00001 | 92% | ⊕⊕⊕⊝ |
|  |  |  |  |  |  |  |  |  |
| Rest pain at 48 hours (centimeter)\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Requirement for breakthrough analgesia in recovery room\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Time to analgesic request (h)\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Duration of recovery room stay (h)\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Opioid-related side effects | 4 | 34/141 | 56/141 | 0.5 (0.2, 0.9) | 0.005 | 0.417 | 0% | ⊕⊕⊕⊕ |
|  |  |  |  |  |  |  |  |  |
| Block performance time (min) | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Block-related complications\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Time to ambulation (h) | 2 | 11.7 (4.8) | 9.9 (3.0) | 1.4 (-1.2, 4.0) | 0.161 | 0.020 | 80% | ⊕⊕⊝⊝ |
|  |  |  |  |  |  |  |  |  |
| Time to voiding (h)\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Time to breast feeding (h)\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Patient satisfaction (centimeter) | 3 | 6.9 (6.8) | 4.5 (2.1) | 2.2 (-3.8, 8.1) | 0.346 | <0.00001 | 100% | ⊕⊕⊝⊝ |
|  |  |  |  |  |  |  |  |  |
| ***No Block or Spinal Morphine versus Quadratus Lumborum Block*** |  |  |  |  |  |  |
| AUC for postoperative VAS scores during the first 48h (centimeter.h) | 8 | 7.4 (5.1) | 11.8 (5.9) | -4.4 (-5.0, -3.8) |  <0.00001 | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Rest pain at 0-2 hours (centimeter) | 7 | 1.5 (1.6) | 2.4 (1.9) | -0.8 (-1.6, -0.1) | 0.003 | <0.00001 | 88% | ⊕⊕⊕⊝ |
|  |  |  |  |  |  |  |  |  |
| Rest pain at 12 hours (centimeter) | 7 | 1.9 (2.2) | 3.3 (2.4) | -1.4 (-2.9, 0.0) | 0.012 | <0.00001 | 97% | ⊕⊕⊕⊝ |
|  |  |  |  |  |  |  |  |  |
| Rest pain at 24 hours (centimeter) | 8 | 2.2 (2.1) | 2.9 (2.2) | -0.7 (-1.3, 0.0) | 0.009 | <0.00001 | 87% | ⊕⊕⊕⊝ |
|  |  |  |  |  |  |  |  |  |
| Rest pain at 48 hours (centimeter) | 6 | 1.4 (1.4) | 1.8 (1.9) | -0.2 (-0.5, 0.0) | 0.006 | 0.276 | 20% | ⊕⊕⊕⊕ |
|  |  |  |  |  |  |  |  |  |
| Requirement for breakthrough analgesia in recovery room\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Time to analgesic request (h) | 5 | 11.4 (9.2) | 4.3 (2.3) | 7.5 (-6.3, 21.4) | 0.166 | <0.00001 | 100% | ⊕⊕⊕⊝ |
|  |  |  |  |  |  |  |  |  |
| Duration of recovery room stay (h)\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Opioid-related side effects | 7 | 24/201 | 33/205 | 0.7 (0.3, 1.6) | 0.289 | 0.474 | 0% | ⊕⊕⊕⊕ |
|  |  |  |  |  |  |  |  |  |
| Block performance time (min)\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Block-related complications | 3 | 0/84 | 0/88 | Not applicable | Not applicable | Not applicable | Not applicable | ⊕⊕⊝⊝ |
|  |  |  |  |  |  |  |  |  |
| Time to ambulation (h) | 3 | 11.2 (6.3) | 10.1 (5.4) | 1.3 (-0.1, 2.6) | 0.017 | 0.060 | 64% | ⊕⊕⊕⊝ |
|  |  |  |  |  |  |  |  |  |
| Time to voiding (h)\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Time to breast feeding (h)\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| Patient satisfaction (centimeter)\* | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
|  |  |  |  |  |  |  |  |  |
| **Abbreviations**: *h, hours; QL, quadratus lumborum.**\*Outcome reported by less than 2 studies or was not measured.* |  |