

Supplement Table S9: Patient and Case Characteristics,  
Outcome 'Site Pain at Three Months' (Univariable Testing)

|   | No Site Pain<br>at 3-months | Site Pain<br>at 3-months | p value    |
|---|-----------------------------|--------------------------|------------|
| <b>n</b>  | 495                         | 180                      |            |
| <b>Institution 1</b>  | 22 (4%)                     | 10 (6%)                  | 0.013 *    |
| <b>Institution 2</b>  | 12 (2%)                     | 1 (1%)                   |            |
| <b>Institution 3</b>  | 66 (13%)                    | 34 (19%)                 |            |
| <b>Institution 4</b>  | 17 (3%)                     | 9 (5%)                   |            |
| <b>Institution 5</b>  | 33 (7%)                     | 20 (11%)                 |            |
| <b>Institution 6</b>  | 65 (13%)                    | 10 (6%)                  |            |
| <b>Institution 7</b>  | 50 (10%)                    | 25 (14%)                 |            |
| <b>Institution 8</b>  | 99 (20%)                    | 31 (17%)                 |            |
| <b>Institution 9</b>  | 49 (10%)                    | 9 (5%)                   |            |
| <b>Institution 10</b>                                       | 51 (10%)                    | 20 (11%)                 |            |
| <b>Institution 11</b>                                       | 31 (6%)                     | 11 (6%)                  |            |
| <b>Age (years)</b>  | 61 [52 - 69]                | 61 [52 - 68]             | 0.989      |
| <b>Sex Female</b>   | 273 (55%)                   | 120 (67%)                | 0.009 *    |
| <b>Race (Consolidated): White</b>                           | 387 (79%)                   | 136 (76%)                | 0.583      |
| <b>Race (Consolidated): Not White</b>                       | 45 (9%)                     | 21 (12%)                 | 0.583      |
| <b>Race (Consolidated): No Response</b>                     | 59 (12%)                    | 23 (13%)                 |            |
| <b>Body Mass Index (kg/m<sup>2</sup>)</b>                   | 29 [25 - 35]                | 29 [26 - 34]             | 0.390      |
| <b>ASA Physical Status: III or IV</b>                       | 224 (47%)                   | 67 (38%)                 | 0.051      |
| <b>Relationship: Not a Couple (n=673)</b>                   | 144 (29%)                   | 52 (29%)                 | 1.000      |
| <b>Occupation: Not Employed</b>                             | 301 (62%)                   | 127 (71%)                | **         |
| <b>Preoperative Taking Opioids</b>                          | 71 (14%)                    | 62 (34%)                 | <0.0001 ** |
| <b>Preoperative Taking Non-Opioid Analgesics</b>            | 154 (31%)                   | 76 (42%)                 | 0.009 *    |
| <b>Preoperative Anxiety Score</b>                           | 48 [40 - 56]                | 51 [40 - 58]             | 0.012 *    |
| <b>Preoperative Depression Score</b>                        | 41 [41 - 52]                | 41 [41 - 56]             | 0.001 *    |
| <b>Preoperative Physical Function Score</b>                 | 27 [23 - 37]                | 36 [27 - 40]             | <0.0001 ** |
| <b>Preoperative Pain Last Week at Surgical Site (n=656)</b> | 183 (38%)                   | 132 (75%)                | <0.0001 ** |
| <b>Surgery Type - Total Hip</b>                             | 38 (8%)                     | 15 (8%)                  | <0.0001 ** |
| <b>Surgery Type - Knee Replacement</b>                      | 23 (5%)                     | 39 (22%)                 |            |
| <b>Surgery Type - Spine Surgery</b>                         | 56 (11%)                    | 51 (28%)                 |            |
| <b>Surgery Type - Open Thoracic</b>                         | 14 (3%)                     | 6 (3%)                   |            |
| <b>Surgery Type - Mastectomy</b>                            | 27 (6%)                     | 16 (9%)                  |            |
| <b>Surgery Type - Abdominal Surgery</b>                     | 337 (68%)                   | 53 (29%)                 |            |
| <b>General Anesthesia (n=663)</b>                           | 463 (95%)                   | 145 (83%)                | <0.0001 ** |
| <b>Neuraxial Anesthesia (n=664)</b>                         | 108 (22%)                   | 57 (33%)                 | 0.008 *    |
| <b>Anesthesia Duration (minutes) (n=668)</b>                | 212 [161 - 279]             | 194 [150 - 270]          | 0.747      |
| <b>Intraoperative Parenteral Morphine Equivalent</b>        | 24 [14 - 34]                | 20 [10 - 34]             | 0.516      |
| <b>Intraoperative Non-Opioid Analgesics Administered</b>    | 449 (91%)                   | 155 (86%)                | 0.114      |

n (%), Median [IQR] \*p<0.05 \*\*p<0.0001 n = 675 unless otherwise noted

Anxiety, Depression, and Physical Function scores were collected using Patient-Reported Outcomes Measurement Information System Score forms (Physical Function short form 4a, Anxiety short form 4a, Depression short form 4a, as described in Cella D, Yount S, Rothrock N, Gershon R, Cook K, Reeve B, et al. The Patient-Reported Outcomes Measurement Information System (PROMIS): Progress of an NIH Roadmap Cooperative Group During its First Two Years. *Med Care.* 2007;45(5 Suppl 1):S3-S11. (ASA, American Society of Anesthesiologists)