**Table C** (Supplemental). Treatment effect on secondary outcomes within 7-days postoperatively

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| --- | --- | --- | --- | --- |
| **BPI outcomes during 7 postop days** | **Stimulation** **(N=31)** | **Sham (Placebo)** **(N=34)** | **Difference in Means** **(Stimulation - sham ) \*** | **P-value \*** |
| **BPI Worst pain score**  |  |  |  |
|  Overall | 2.9 ± 2.2 | 5.5 ± 2.0 | 2.5 (-3.5, -1.4) | <0.001 |
| Treatment\*time interaction |  |  | 0.292 |
|  POD 1 | 3.8 ± 3.3 | 6.1 ± 3.4 | -2.2 (-3.6, -0.8) | 0.002 |
|  POD 2 | 3.9 ± 2.3 | 6.9 ± 2.6 | -2.9 (-4.2, -1.5) | <0.001 |
|  POD 3 | 2.6 ± 2.6 | 5.8 ± 2.6 | -3.1 (-4.5, -1.8) | <0.001 |
|  POD 4 | 1.9 ± 2.4 | 4.7 ± 2.5 | -2.6 (-4.0, -1.3) | <0.001 |
|  POD 7 | 2.1 ± 2.5 | 3.9 ± 2.5 | -1.6 (-3.0, -0.3) | 0.019 |
| **Least pain score** |  |  |  |  |
|  Overall | 0.2 ± 0.6 | 1.0 ± 1.6 | -0.8 (-1.3, -0.2) | 0.007 |
| Treatment\*time interaction |  |  |  0.001 |
|  POD 3 | 0.2 ± 0.6 | 1.4 ± 1.8 | -1.2 (-1.8, -0.6) | <0.001 |
|  POD 7 | 0.2 ± 0.7 | 0.7 ± 1.6 | -0.4 (-1.0, 0.2) | 0.225 |
| **Current pain score** |  |  |  |
|  Overall | 0.4 ± 0.6 | 1.9 ± 2.0 | -1.5 (-2.2, -0.7) | <0.001 |
| Treatment\*time  |  |  |  | 0.054 |
|  POD 3 | 0.4 ± 0.7 | 2.3 ± 2.3 | -1.8 (-2.7, -1.0) | <0.001 |
|  POD 7 | 0.3 ± 0.8 | 1.5 ± 2.2 | -1.1 (-1.9, -0.3) | 0.011 |
| **Total Severity score** |  |  |  |
|  Overall | 3.7 ± 4.4 | 10.3 ± 7.2 | -6.1 (-9.1, -3.2) | <0.001 |
| Treatment\*time  |  |  |  | 0.001 |
|  POD 3 | 4.0 ± 4.6 | 12.6 ± 7.7 | -8.1 (-11.0, -5.0) | <0.001 |
|  POD 7 | 3.3 ± 4.7 | 8.0 ± 7.6 | -4.2 (-7.3, -1.1) | 0.009 |
| **Total interference score** |  |  |  |  |
|  Overall | 2.6 ± 4.5 | 21.5 ± 17.9 | -17 (-23, -10) | <0.001 |
| Treatment\*time  |  |  |  | < 0.001 |
|  POD 3 | 2.6 ± 4.4 | 24.1 ± 19.4 | -19 (-26, -13) | <0.001 |
|  POD 7 | 2.5 ± 4.9 | 19.0 ± 17.0 | -14 (-21, -8) | <0.001 |
| **Defense and Veterans Pain Rating Scale** |  |  |  |  |
|  Overall | 1.3 ± 1.4 | 3.5 ± 2.3 | -2.1 (-3.0, -1.1) | <0.001 |
| Treatment\*time  |  |  |  | 0.007 |
|  POD 3 | 1.4 ± 1.5 | 4.2 ± 2.3 | -2.6 (-3.6, -1.6) | <0.001 |
|  POD 7 | 1.1 ± 1.5 | 2.9 ± 2.5 | -1.6 (-2.6, -0.6) | 0.003 |
| **Improvement from pain treatments (%) \*\*** |  |  |  |  |
|  Overall | 92 ± 14 | 73 ± 22 | 18 (8, 27) | <0.001 |
| Treatment\*time  |  |  |  | 0.018 |
|  POD 3 | 90 ± 16 | 67 ± 26 | 22 (12, 33) | <0.001 |
|  POD 7 | 93 ± 13 | 79 ± 21 | 13 (3, 24) | 0.011 |
| Data are presents as mean ± SD. Average scores over postoperatively 7 days of each patient were used for overall summary statistics.\* Difference in means (95% CI) as stimulation minus sham(placebo) was estimated from a repeated measures linear mixed effects model with an autoregressive correlation structure adjusting for baseline BPI for the individual component and imbalanced surgical location.\*\* only adjusting for the surgical location due to 80% missing data points of baseline improvement from pain treatments. |