**Supplemental Content**

**Appendix.** Key outcomes analyzed by study group allocation and adjusted for intraoperative opioid dose. OMEQ is oral morphine equivalents and OR is odds ratio.

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| --- | --- | --- | --- | --- | --- |
|  | **R squared** | **F value** | **β coefficient (OR)** |  **95% CI** | **P value** |
| **OMEQ at 24 hrs** *(mg)* |
| Study group (vs. control group) | 0.025 | 0.959 | -0.117 (0.89) | -14.43 to 5.84  | 0.401 |
| Intraoperative OMEQ | 0.058 | -0.42 to 0.65 | 0.676 |
| **OMEQ at 48 hrs** *(mg)* |
| Study group (vs. control group) | 0.012 | 0.435 | -0.124 (0.89) | -33.82 to 13.09 | 0.381 |
| Intraoperative OMEQ | -0.035 | -1.39 to 1.09 | 0.804 |
| **Time to 1st analgesic use** *(mins)* |
| Study group (vs. control group) | 0.027 | 1.053 | 0.186 (1.20) | -61.24 to 313.15 | 0.184 |
| Intraoperative OMEQ | 0.169 | -3.84 to 16.00 | 0.226 |
| **Pain scores at 24 hrs** *(NRS)* |
| Study group (vs. control group) | 0.052 | 2.040 | -0.269 (0.76) | -1.95 to 0.05 | 0.055 |
| Intraoperative OMEQ | -0.094 | -0.68 to 0.49 | 0.499 |
| **Pain scores at 48 hrs** *(NRS)* |
| Study group (vs. control group) | 0.088 | 3.349 | -0.220 (0.80) | -1.44 to 0.17 | 0.121 |
| Intraoperative OMEQ | -0.362 | -0.09 to -0.01 | 0.012 |