Supplement 6 Table - Preoperative Characteristics and Perioperative Treatments in Patients with Lower versus Higher Acute Pain Scores before Propensity-Score Matching.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | Unmatched Cohort | | |  |
|  |  | N=32,874 | | |  |
| **Characteristics** | | Mean score >4 | Mean score 0-4 | p-value | |
|  | |  |  |  | |
|  |  | 21,127 | 11,747 |  | |
| **Hospital and Surgeon Demographics** | | PERCENTAGES ARE PROPORTIONS OF TOTAL IN EACH COLUMN | |  | |
| Operation Year | 2010-11 | 32 | 35 | P<0.001 | |
|  | 2012-13 | 35 | 34 |  | |
|  | 2014-15 | 33 | 31 |  | |
| Region | Central | 14 | 16 | P<0.001 | |
|  | Southeast | 24 | 23 |  | |
|  | Midwest | 24 | 27 |  | |
|  | Northeast | 22 | 18 |  | |
|  | Pacific | 15 | 16 |  | |
| Hospital volume | Low | 24 | 28 | P<0.001 | |
|  | Med | 50 | 49 |  | |
|  | High | 26 | 23 |  | |
| Surgical volume | Low | 25 | 28 | P<0.001 | |
|  | Med | 50 | 46 |  | |
|  | High | 25 | 26 |  | |
|  |  |  |  |  | |
| **Patient Demographics** | |  |  |  | |
| Age | <=50 | 7 | 3 | P<0.001 | |
|  | 51-60 | 32 | 18 |  | |
|  | 61-70 | 48 | 52 |  | |
|  | 71-80 | 10 | 21 |  | |
|  | >80 | 2 | 6 |  | |
| Race | White | 72 | 76 | P<0.001 | |
|  | Black | 18 | 13 |  | |
|  | Hispanic | 6 | 7 |  | |
|  | American Indian | 1 | 1 |  | |
|  | Asian | 1 | 1 |  | |
|  | Unknown | 2 | 3 |  | |
| BMI | <=25 | 10 | 10 | 0.392 | |
|  | 26-35 | 64 | 65 |  | |
|  | 36-40 | 19 | 18 |  | |
|  | >40 | 7 | 7 |  | |
| Gender | male | 92 | 94 | P<0.001 | |
|  |  |  |  |  | |
| **Preoperative Pain and Opioid Use** | | |  |  | |
| Pain Score | Missing | 9 | 9 | P<0.001 | |
|  | 0-4 | 37 | 56 |  | |
|  | 5-7 | 38 | 26 |  | |
|  | 8-10 | 17 | 9 |  | |
|  |  |  |  |  | |
| Opioid Use  (Type, Duration, and Amount) |  |  |  |  | |
| Tramadol Use |  | 12 | 10 | P<0.001 | |
| Late Initiator |  | 9 | 13 | <0.001 | |
| Dose in OMEs | <15 | 46 | 61 |  | |
|  | >15 | 45 | 25 |  | |
| **Pain Clinic visit** | No | 90 | 94 | P<0.001 | |
|  | Yes | 10 | 6 |  | |
| **Back pain** (MRI/epidural) |  | 48 | 36 | P<0.001 | |
|  |  |  |  |  | |
| Preop MI |  | 2 | 2 | 0.528 | |
| Heart Failure |  | 5 | 6 | 0.407 | |
| Arrythmia |  | 17 | 20 | P<0.001 | |
| Valvular disease |  | 3 | 4 | P<0.001 | |
| Chronic pulmonary |  | 21 | 18 | P<0.001 | |
| Perivascular |  | 5 | 6 | 0.001 | |
| Hypertension |  | 75 | 78 | P<0.001 | |
| HT with complication |  | 6 | 8 | P<0.001 | |
| Diabetes |  | 30 | 30 | 0.191 | |
| Diabetes with complication |  | 7 | 7 | 0.029 | |
| Renal failure |  | 7 | 9 | P<0.001 | |
| Liver disease |  | 8 | 4 | P<0.001 | |
| Tumor |  | 8 | 10 | P<0.001 | |
| Arthritis |  | 4 | 3 | 0.011 | |
| Coagulation deficiency |  | 4 | 3 | 0.285 | |
| Obesity |  | 29 | 28 | 0.027 | |
| Apnea |  | 24 | 21 | P<0.001 | |
| Fluid/Electrolyte disorder |  | 15 | 14 | 0.003 | |
| Blood loss anemia |  | 2 | 2 | 0.889 | |
| Paralysis |  | 1 | 1 | 0.962 | |
|  |  |  |  |  | |
| **Preoperative Substance Use** |  |  |  |  | |
| Tobacco |  | 24 | 16 | P<0.001 | |
| Alcohol |  | 15 | 9 | P<0.001 | |
| Other Substance Abuse |  | 12 | 5 | P<0.001 | |
| Preop Mental Illness Type |  |  |  |  | |
| Anxiety |  | 14 | 9 | P<0.001 | |
| Psychosis |  | 3 | 3 | P<0.001 | |
| Depression |  | 39 | 27 | P<0.001 | |
| PTSD |  | 22 | 16 | P<0.001 | |
|  |  |  |  |  | |
| **Perioperative Treatments** | |  |  |  | |
| Type of Anesthesia | General | 40 | 46 | P<0.001 | |
|  |  |  |  |  | |
| Type of Analgesia | Nerve Block | 40 | 30 |  | |
|  | PCA | 10 | 9 | 0.096 | |