**Supplemental Table 1**: Comparative Demographics Between Included and Excluded Participants

|  | **Excluded**  **(n = 101)** | **Included**  **(n = 403)** | **p-value** |
| --- | --- | --- | --- |
| Sex, n (%) |  |  | 0.98 |
| Male | 34 (52.3%) | 186 (51.2%) |  |
| Female | 31 (47.7%) | 177 (48.8%) |  |
| Body Mass Index, median [IQR] | 29.7 [26.8;34.0] | 29.1 [26.2;33.5] | 0.61 |
| Age, median years [IQR] | 53.0 [44.0;60.0] | 55.0 [44.0;61.0] | 0.54 |
| Race and Ethnicity, n (%) |  |  | 0.01 |
| Hispanic or Latino | 5 (5.26%) | 29 (7.38%) |  |
| Multiple or Other | 5 (5.26%) | 20 (5.09%) |  |
| Non-Hispanic Asian | 4 (4.21%) | 17 (4.33%) |  |
| Non-Hispanic Black\* | 31 (32.6%) | 64 (16.3%) |  |
| Non-Hispanic White | 50 (52.6%) | 263 (66.9%) |  |
| Beneficiary Type, n (%) |  |  | 0.86 |
| Active Duty | 31 (30.7%) | 123 (30.5%) |  |
| Family Member | 33 (32.7%) | 122 (30.3%) |  |
| Retiree or Other | 37 (36.6%) | 158 (39.2%) |  |
| ASA Level, n (%) |  |  | 0.15 |
| I | 5 (5.26%) | 39 (9.68%) |  |
| II | 61 (64.2%) | 273 (67.7%) |  |
| III | 29 (30.5%) | 91 (22.6%) |  |
| Smoker, n (%) |  |  | 0.33 |
| No | 85 (89.5%) | 375 (93.1%) |  |
| Yes | 10 (10.5%) | 28 (6.95%) |  |
| Cancer, n (%) |  |  | 0.89 |
| No | 73 (76.8%) | 315 (78.2%) |  |
| Yes | 22 (23.2%) | 88 (21.8%) |  |
| Chemotherapy, n (%) |  |  | 0.29 |
| No | 16 (80.0%) | 57 (64.8%) |  |
| Yes | 4 (20.0%) | 31 (35.2%) |  |
| Surgery, n (%) |  |  | 0.12 |
| Major Abdominal | 13 (13.5%) | 30 (7.46%) |  |
| Mastectomy | 14 (14.6%) | 79 (19.7%) |  |
| Spinal Fusion | 12 (12.5%) | 86 (21.4%) |  |
| Thoracic | 25 (26.0%) | 95 (23.6%) |  |
| Total Hip Arthroplasty | 6 (6.25%) | 17 (4.23%) |  |
| Total Knee Arthroplasty | 26 (27.1%) | 95 (23.6%) |  |
| Average Pain, median [IQR] | 5.00 [2.00;7.00] | 5.00 [2.00;6.00] | 0.72 |
| Presurgical Opioid Use, n (%) |  |  | 0.04 |
| No\* | 45 (76.3%) | 311 (87.4%) |  |
| Yes | 14 (23.7%) | 45 (12.6%) |  |
| Peripheral Nerve Block, n (%) |  |  | <0.01 |
| No\* | 38 (40.9%) | 261 (64.8%) |  |
| Yes\* | 55 (59.1%) | 142 (35.2%) |  |
| Hospital Duration (days), median [IQR] | 3.00 [3.00;5.00] | 3.00 [2.00;4.00] | 0.10 |
| Pain Catastrophizing Scale, median [IQR] | 10.0 [4.00;23.5] | 10.0 [4.00;22.0] | 0.92 |
| PROMIS Measures, median [IQR] |  |  |  |
| Pain Interference | 64.2 [59.0;68.2] | 61.5 [54.4;66.9] | 0.06 |
| Physical Function | 38.0 [32.2;44.9] | 39.1 [34.6;46.3] | 0.19 |
| Fatigue | 57.3 [50.7;64.0] | 55.4 [48.5;62.3] | 0.11 |
| Sleep Disturbance | 59.3 [49.7;63.8] | 56.1 [48.9;63.2] | 0.46 |
| Depression | 48.2 [39.8;55.1] | 48.2 [42.7;55.0] | 0.68 |
| Anxiety | 53.5 [46.0;58.3] | 52.9 [46.0;58.9] | 0.97 |
| Anger | 48.5 [40.5;53.5] | 48.8 [42.2;54.7] | 0.28 |
| Social Role Satisfaction | 44.7 [39.7;51.6] | 44.7 [37.9;51.6] | 0.40 |
| Social Isolation | 42.3 [31.8;48.7] | 42.3 [36.5;49.0] | 0.33 |

**Note**: Continuous variable comparisons analyzed with Kruskall-Wallis tests and are displayed as medians [interquartile ranges]. Categorical variable comparisons analyzed with Chi-square tests and are displayed as frequency (%). \*Indicates the distribution of participants in a row across the Not Analyzed versus Analyzed groups was significantly different than the expected distribution based on the overall proportion of participant allocation to the Not Analyzed (20%) and Analyzed (80%) groups.