**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.