|  |  |  |
| --- | --- | --- |
| N = 219 | Complications | P- value |
| No = 151 (69%) | Yes = 68 (31%) |  |
| Age, years, median [25th, 75th percentile] | 75 [73, 79] | 75 [72, 80] | 0.351a |
| Sex, n (%) |  | 0.659 b |
|  Male | 84 (56) | 40 (59) |  |
|  Female | 67 (44) | 28 (41) |
| Body Mass Index, Kg.m2, median [25th, 75th percentile] [N = 217] | 28 [25, 32] | 30 [26, 34] | 0.040a |
| College degree or higher, n (%) [N = 212] | 96 (64) | 48 (76) | 0.094 b |
| ASA physical status ≥ 3, n (%) | 96 (64) | 53 (78) | 0.035 b |
| METS < 4, n (%) [N = 209] | 41 (28) | 35 (55) | 0.016 b |
| Total number of medications, median [25th, 75th percentile] | 7 [5, 10] | 9 [7, 13] | 0.001a |
| Chronic use of opioids, n (%) | 29 (19) | 26 (38) | 0.003 b |
| Alcohol consumption, n (%) [N = 193] | 92 (70) | 33 (54) | 0.035 b |
| Depression, n (%) | 22 (15) | 17 (25) | 0.062 b |
| Psychiatric history, n (%) | 14 (9) | 8 (12) | 0.570 b |
| Mini-Cog score, median [25th, 75th percentile] | 4 [3, 5] | 4 [2, 5] | 0.322a |
| Animal Verbal Fluency Test, mean ± SD | 19 ± 5 | 17 ± 5 | 0.015c |
| FRAIL scale, n (%) [N = 218] |  |  | < 0.001b |
|  Score 0 (robust)  | 43 (29) | 5 (8) |  |
|  Scores 1 and 2 (pre-frail)  | 80 (53) | 37 (55) |  |
|  Scores 3 and 5 (frail)  | 28 (19) | 25 (37) |  |
| Surgical invasivenessd, n (%) |  | 0.006b |
|  Tier 1 + 2 | 86 (57) | 35 (37) |  |
|  Tier 3 + 4 | 65 (43) | 43 (63) |

**Supplementary Table 1.** Univariate associations for all in-hospital complications other than postoperative delirium.

SD: standard deviation, ASA: American Society of Anesthesiologists, METS: Metabolic Equivalent of Task.

a Mann-Whitney U test

b Chi square test

c Independent samples t test

d Surgical invasiveness: tier 1 and 2, microdiscectomy, lumbar laminectomy or anterior cervical procedures, minimally invasive fusions; tier 3 and 4, lumbar fusion, trauma, or posterior cervical fusion procedures, tumor, infection, deformity, or combined anterior and posterior cervical procedures.