Appendix 1. Medical Comorbidities and hospital-acquired complications (including patient safety index) of the patients with OA and spine disorders and hospital acquired complications

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| --- | --- | --- | --- | --- |
|  | Total: n = 12, 747 | OA: n = 7195 | Spine: n = 5552 | P-value |
| Charlson Comorbidity Index (mean ± SD) | 2.826 ± 1.759 | 2.983 ± 1.550 | 2.622 ± 1.978 | <.0001 |
| Diabetes without Complications | 2,135 (16.75%) | 1,096 (15.23%) | **1,039 (18.71%)** | <.0001 |
| COPD | 1,574 (12.35%) | 811 (11.27%) | **763 (13.74%)** | <.0001 |
| Renal Disease | 891 (6.99%) | **575 (7.99%)** | 316 (5.69%) | <.0001 |
| Diabetes w/ Complication | 553 (4.34%) | 291 (4.04%) | 262 (4.72%) | 0.0640 |
| CHF | 424 (3.33%) | 192 (2.67%) | **232 (4.18%)** | <.0001 |
| Rheumatic Disease | 391 (3.07%) | 221 (3.07%) | 170 (3.06%) | 0.9750 |
| PVD | 358 (2.81%) | 152 (2.11%) | **206 (3.71%)** | <.0001 |
| MI | 303 (2.38%) | 160 (2.22%) | 143 (2.58%) | 0.1960 |
| Malignancy | 186 (1.46%) | 88 (1.22%) | **98 (1.77%)** | 0.0110 |
| Dementia | 152 (1.19%) | 59 (0.82%) | **93 (1.68%)** | <.0001 |
| Mild Liver Disease | 93 (0.73%) | 42 (0.58%) | **51 (0.92%)** | 0.0280 |
| Cerebrovascular disease | 71 (0.56%) | 23 (0.32%) | **48 (0.86%)** | <.0001 |
| Peptic Ulcer Disease | 41 (0.32%) | 23 (0.32%) | 18 (0.32%) | 0.9640 |
| Metastatic Solid Tumor | 27 (0.21%) | 3 (0.04%) | **24 (0.43%)** | <.0001 |
| AIDS/HIV | 8 (0.06%) | 5 (0.07%) | 3 (0.05%) | 0.7300 |
| Moderate Severe Liver | 6 (0.05%) | 2 (0.03%) | 4 (0.07%) | 0.2530 |
| Hemiplegia Paraplegia | 0 (0%) | 0 (0%) | 0 (0%) |  |
| **Hospital Acquired Complications and Patient Safety Index** | | | | |
| Fracture | 40 | 19 | 21 | 0.2530 |
| Catheter UTI | 21 | 6 | **15** | 0.0100 |
| Sepsis | 17 | 1 | **16** | <.0001 |
| DVT/PE after procedure | 15 | 7 | 8 | 0.4450 |
| Diabetes\_ Complication | 9 | 4 | 5 | 0.4680 |
| Pressure Ulcer | 4 | 1 | 3 | 0.2050 |
| Iatrogenic Pneumothorax | 4 | 0 | **4** | 0.0230 |
| Dislocation | 4 | 3 | 1 | 0.4540 |
| Fall Diagnosis | 2 | 1 | 1 | 0.8540 |
| Hemorrhage | 1 | 1 | 0 | 0.3800 |
| Intracranial Injury | 1 | 1 | 0 | 0.3800 |
| Crushing Injury | 1 | 1 | 0 | 0.3800 |
| Total | 119 | 45 | 74 | <.0001 |