**Additional file 2.** Prevalence of Comorbidities by Primary Diagnosis at Total Hip Arthroplasty Surgery

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Total1 | Osteoarthritis | Osteonecrosis | Chi-Square P-Value |
| Comorbidities | **n** | **%** | **n** | **%** | **n** | **%** |
| Total | 17179 | 100.0 | 16509 | 100.0 | 670 | 100.0 |  |
| Cases with at least one comorbidity | 14384 | 84.2 | 13818 | 84.2 | 566 | 84.7 |  |
| Congestive heart failure | 480 | 2.8 | 455 | 2.8 | 25 | 3.7 | 0.206 |
| Vascular disease | 671 | 3.9 | 651 | 4.0 | 20 | 3.0 | 0.279 |
| Pulmonary circulation disease | 167 | 1.0 | 158 | 1.0 | 9 | 1.3 | 0.383 |
| Peripheral vascular disease | 1005 | 5.9 | 969 | 5.9 | 36 | 5.4 | 0.536 |
| Paralysis | 96 | 0.6 | 92 | 0.6 | 4 | 0.6 | 0.620 |
| Other neurological disorders | 498 | 2.9 | 469 | 2.9 | 29 | 4.3 | 0.051 |
| Chronic pulmonary disease | 2669 | 15.6 | 2504 | 15.3 | 165 | 24.7 | <0.001 |
| Hypothyroidism | 2300 | 13.5 | 2226 | 13.6 | 74 | 11.1 | 0.114 |
| Renal failure | 1567 | 9.2 | 1491 | 9.1 | 76 | 11.4 | 0.082 |
| Liver disease | 443 | 2.6 | 391 | 2.4 | 52 | 7.8 | <0.001 |
| Peptic ulcer disease x bleeding | 2 | 0.0 | 2 | 0.0 | 0 | 0.0 | 0.600 |
| Acquired immune deficiency syndrome | 51 | 0.3 | 26 | 0.2 | 25 | 3.7 | <0.001 |
| Lymphoma | 69 | 0.4 | 61 | 0.4 | 8 | 1.2 | 0.003 |
| Metastatic cancer | 59 | 0.3 | 54 | 0.3 | 5 | 0.7 | 0.121 |
| Solid tumor w/out metastasis | 205 | 1.2 | 198 | 1.2 | 7 | 1.0 | 0.584 |
| Rheumatoid arthritis/collagen vascular disease | 505 | 3.0 | 468 | 2.9 | 37 | 5.5 | <0.001 |
| Coagulopathy | 358 | 2.1 | 336 | 2.0 | 22 | 3.3 | 0.055 |
| Weight loss | 146 | 0.9 | 135 | 0.8 | 11 | 1.6 | 0.047 |
| Fluid and electrolyte disorders | 1065 | 6.2 | 1026 | 6.3 | 39 | 5.8 | 0.569 |
| Chronic blood loss anemia | 441 | 2.6 | 430 | 2.6 | 11 | 1.6 | 0.186 |
| Deficiency anemia | 2007 | 11.8 | 1900 | 11.6 | 107 | 16.0 | 0.001 |
| Alcohol abuse | 466 | 2.7 | 401 | 2.4 | 65 | 9.7 | <0.001 |
| Drug abuse | 229 | 1.3 | 203 | 1.2 | 26 | 3.9 | <0.001 |
| Psychoses | 1223 | 7.2 | 1164 | 7.1 | 59 | 8.8 | 0.144 |
| Depression | 992 | 5.8 | 945 | 5.8 | 47 | 7.0 | 0.239 |
| Hypertension | 10336 | 60.5 | 9976 | 60.8 | 360 | 53.9 | 0.001 |
| 1. Co-morbidities available for limited sample (operative years 2009-2012 and 3 geographical regions). Missing co-morbidities: N=99 (0.6%). Obesity (because of body mass index data) and diabetes (because of diabetes registry data) available in Table 1 for entire cohort and therefore not listed in this table. |