**Table 1.** Patient Characteristics for Knee and Hip Replacement Surgeries and Cardiac Surgeries, Stratified by SSI Infection

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Characteristic | Knee and Hip Replacement Surgery | | | | Cardiac Surgery | | | |
|  | Total | No Infection | SSI | Total | | No Infection | SSI |
| No. of surgeries | 175,416 | 173,441 | 1974 | 36,840 | | 34,930 | 1,910 |
| Surgical site infection, no. (%) | 1,974 (1.0) | … | 1974 | 1,910 (5.2) | | … | 1,910 |
| **Wound class, no. (%)** |  |  |  |  | |  |  |
| Superficial | … | … | 555 (28.1) | … | | … | 601 (39.1) |
| Deep | … | … | 263 (13.3) | … | | … | 493 (32.1) |
| Organ space | … | … | 1,155 (58.5) | … | | … | 443 (28.8) |
| **Time to infection, no. (%)****a** |  |  |  |  | |  |  |
| 0–30 d | … | … | 1,124 (57.0) | … | | … | 1,099 (71.5) |
| 31–90 d | … | … | 491 (24.9) | … | | … | 303 (19.7) |
| >90 d | … | … | 358 (18.1) | … | | … | 135 (8.8) |
| Infection after discharge, no. (%)a | … | … | 1,819 (92.2) | … | | … | 991 (64.5) |
| **Hospital size (beds), no. (%)** |  |  |  |  | |  |  |
| <200 | 110,627 (63.1) | 109,476 (63.1) | 1,151 (58.3) | 4,646 (12.6) | | 4,444 (12.7) | 202 (10.6) |
| 200–499 | 50,593 (28.8) | 50,024 (28.8) | 569 (28.8) | 6,390 (17.3) | | 6,070 (17.4) | 320 (16.8) |
| >500 | 14,195 (8.1) | 13,941 (8.0) | 254 (12.9) | 25,804 (70.0) | | 24,416 (69.9) | 1,388 (72.7) |
| **Procedure type, no. (%)** |  |  |  |  | |  |  |
| Hip | 106,143 (60.5) | 104,828 (60.4) | 1314 (66.6) | … | | … | … |
| Knee | 69,273 (39.5) | 68,613 (39.6) | 660 (33.4) | … | | … | … |
| Valve | … | … | … | 15,370 (41.7) | | 14,823 (42.4) | 547 (28.6) |
| CABG |  | … | … | 21,470 (58.3) | | 20,107 (57.6) | 1,363 (71.4) |
| Procedure duration, min [range] | 86  [68–108] | 85  [68–108] | 94  [75–120] | 225  [183–271] | | 224  [181–270] | 243  [201–292] |
| Age, y [range] | 69  [61–76] | 69  [61–76] | 69  [61–76] | 68  [60–75] | | 68  [60–75] | 69  [61–75] |
| Sex, female, no. (%) | 95,716 (54.6) | 94,816 (54.7) | 900 (45.6) | 9,201 (25.0) | | 8,690 (24.9) | 511 (26.8) |
| Overlong operation (ScoreT), no. (%) | 23,479 (13.4) | 23,082 (13.3) | 397 (20.1) | 6,511 (17.7) | | 6,046  (17.3) | 465 (24.3) |
| ASA levels 3/4/5, no. (%) | 49,136 (28.0) | 48,308 (27.9) | 828 (41.9) | 35,270 (95.7) | | 33,392 (95.6) | 1,878 (98.3) |
| Minimal invasive, no. (%) | 40,455 (23.1) | 39,994 (23.1) | 461 (23.4) | 3,394 (9.2) | | 3,292  (9.4) | 102  (5.3) |
| Elective surgery, no. (%) | 174,864 (99.7) | 172,900 (99.7) | 1,964 (99.5) | 29,590 (80.3) | | 28,107 (80.5) | 1,483 (77.6) |
| Timing of first antibiotic, min prior to incision at time 0 [range] | −40  [−52 to −30] | −40  [−52 to −30] | −42  [−55 to −30] | −45  [−60 to −32] | | −45  [−60 to −32] | −45  [−60 to −34] |
| Repeat surgery, no. (%) | 3,619  (2.1) | 3,185  (1.8) | 434 (22.0) | 1,499 (4.1) | | 1,261  (3.6) | 238 (12.5%) |
| **Destination on discharge, no. (%)** |  |  |  |  | |  |  |
| Home (including care home) | 115,872 (66.1) | 114,605 (66.1) | 1,267 (64.2) | 10,136 (27.5) | | 9,700 (27.8) | 436 (22.8) |
| Other acute-care hospital | 1,404 (0.8) | 1,351 (0.8) | 53 (2.7) | 2,110 (5.7) | | 1,928 (5.5) | 182 (9.5) |
| Rehab. clinic | 55,310 (31.5) | 54,693 (31.5) | 617 (31.3) | 23,299 (63.2) | | 22,086 (63.2) | 1,213 (63.5) |
| Patient died | 137 (0.1) | 134 (0.1) | 3 (0.2) | 892 (2.4) | | 835 (2.4) | 57 (3.0) |
| Other | 2,692 (1.5) | 2,658 (1.5) | 34 (1.7) | 403 (1.1) | | 381 (1.1) | 22 (1.2) |

Note. SSI, surgical site infections; IQR, interquartile range; CABG, coronary artery bypass grafting; ScoreT, above 75th percentile for duration for this procedure type; ASA, American Society of Anesthesiology.

aFor those with date of infection.