# Bone & Joint
*Open*

# Supplementary Material
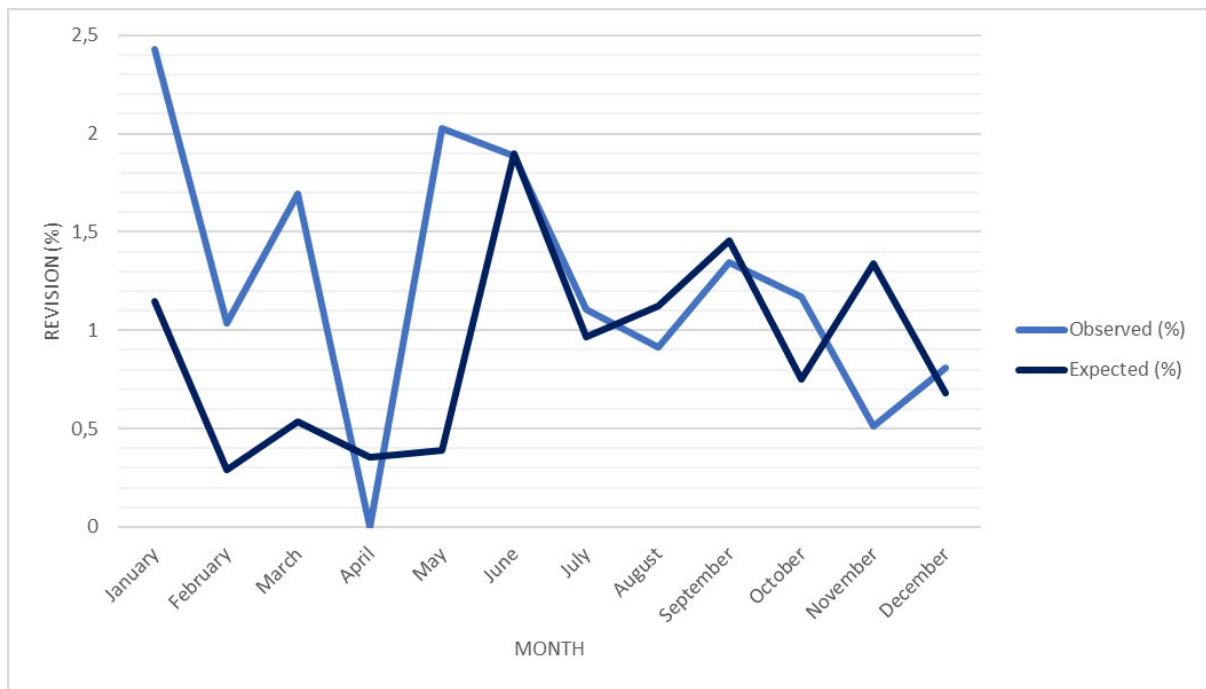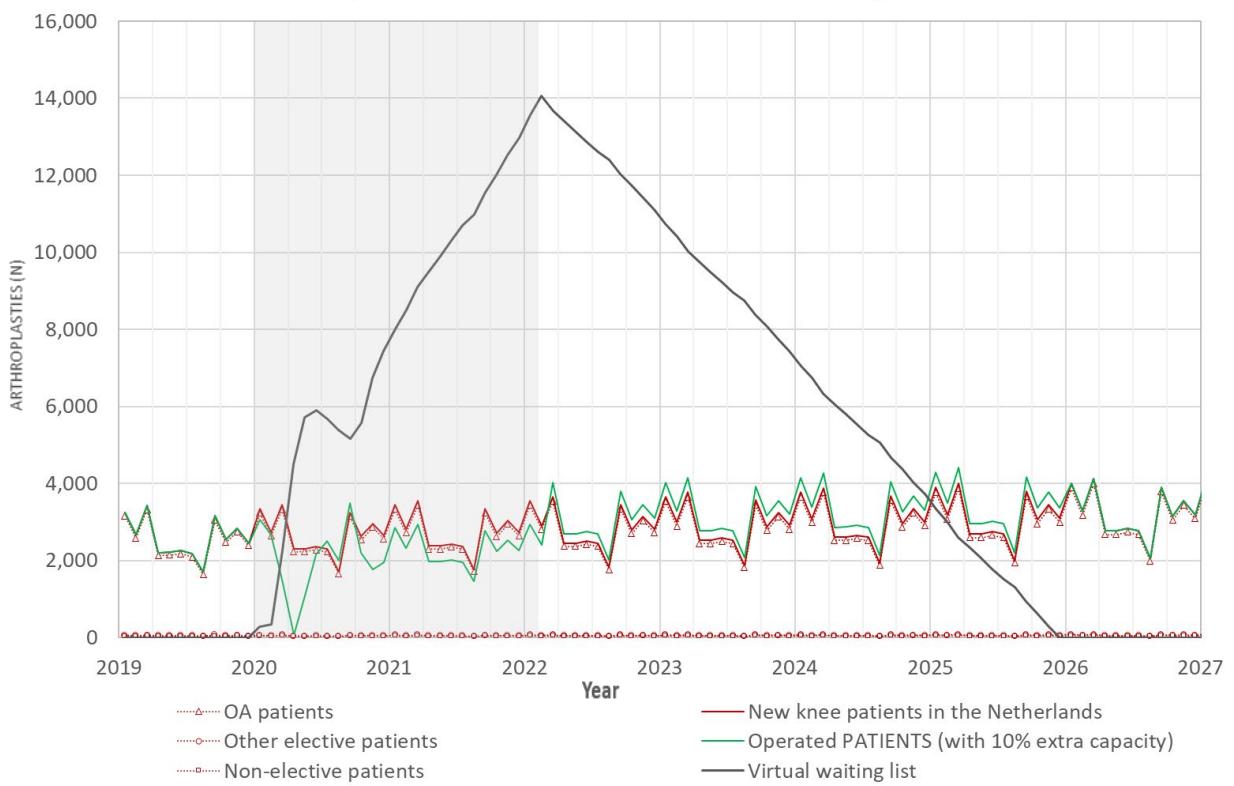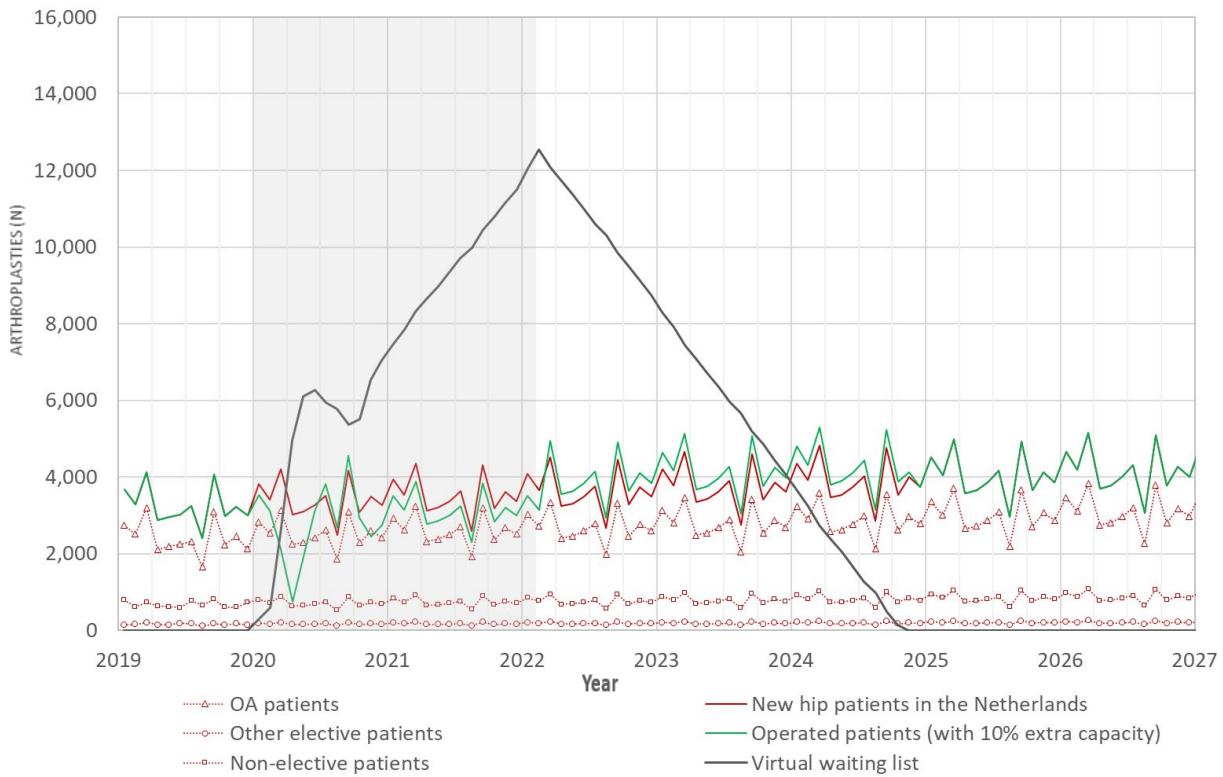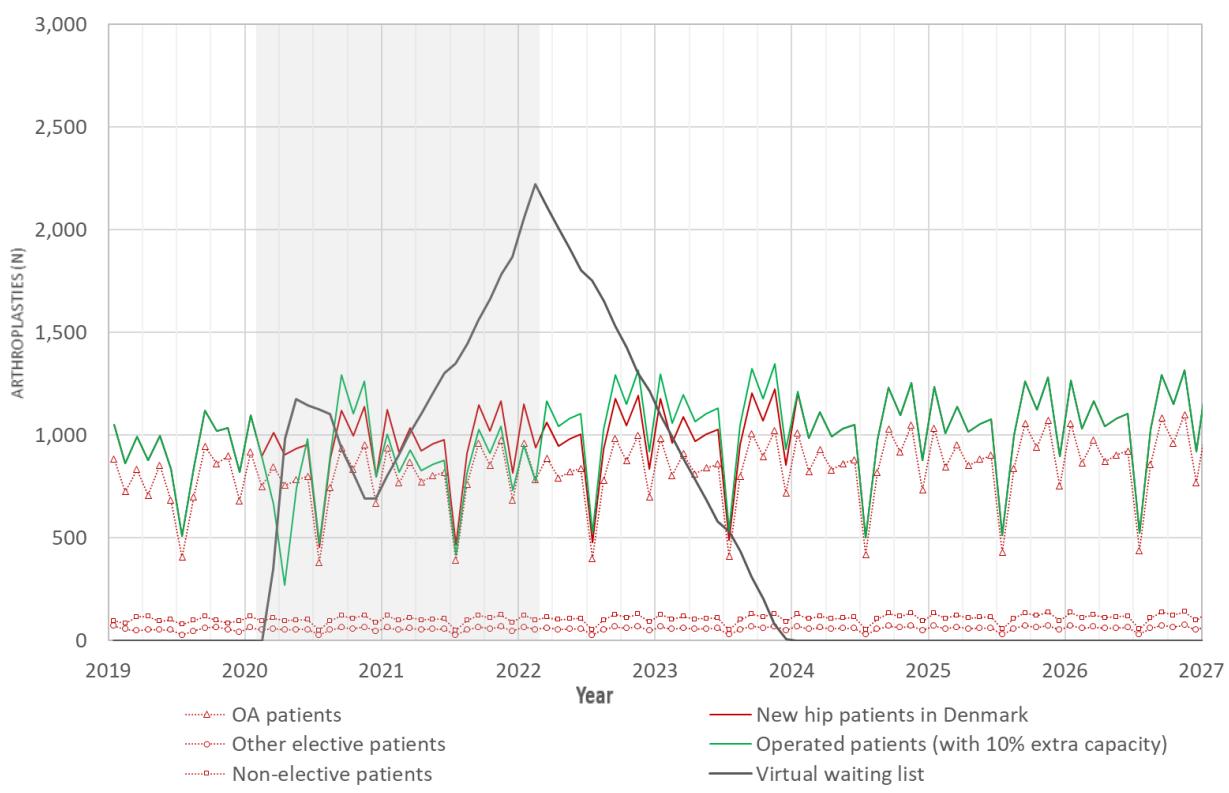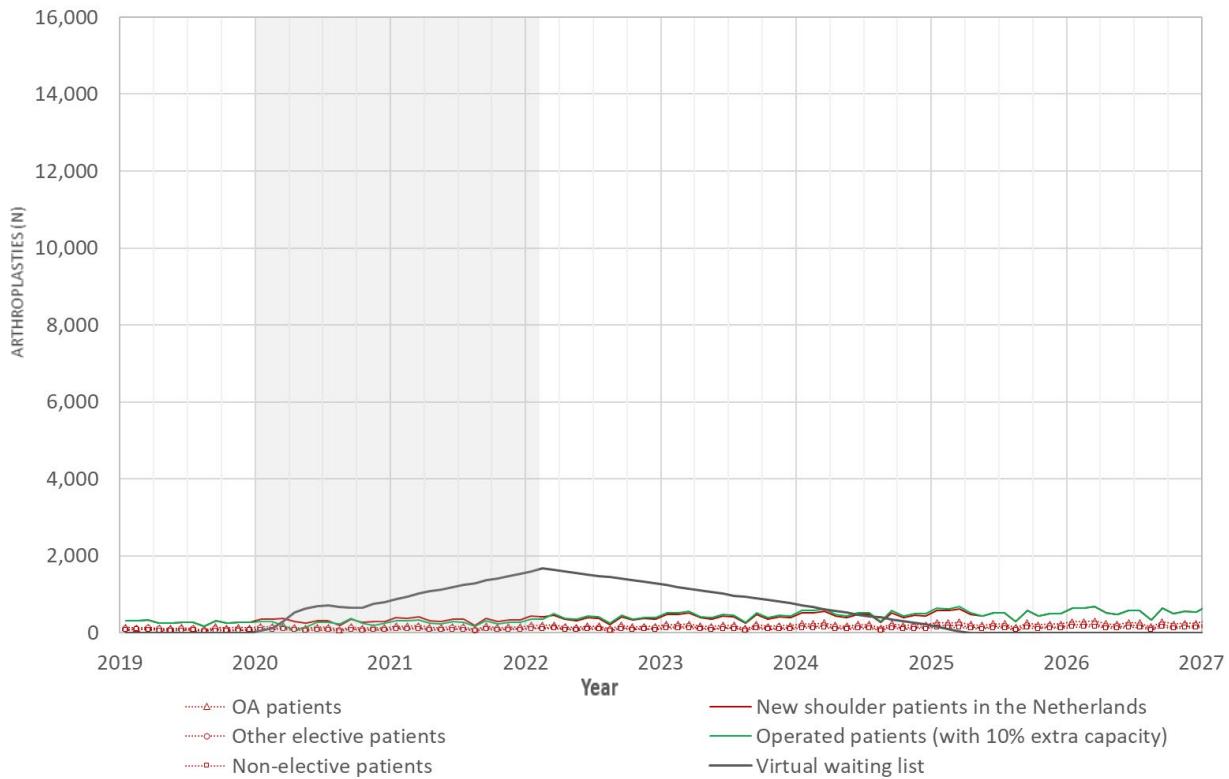
**Fig a.** a) Observed/expected ratios of proportions of revision hip arthroplasties within three months in 2020 in the Netherlands and Denmark. b) Observed/expected ratios of proportions of revision knee arthroplasties within three months in 2020 in the Netherlands and Denmark. c) Observed/expected ratios of proportions of revision shoulder arthroplasties within three months in 2020 in the Netherlands.
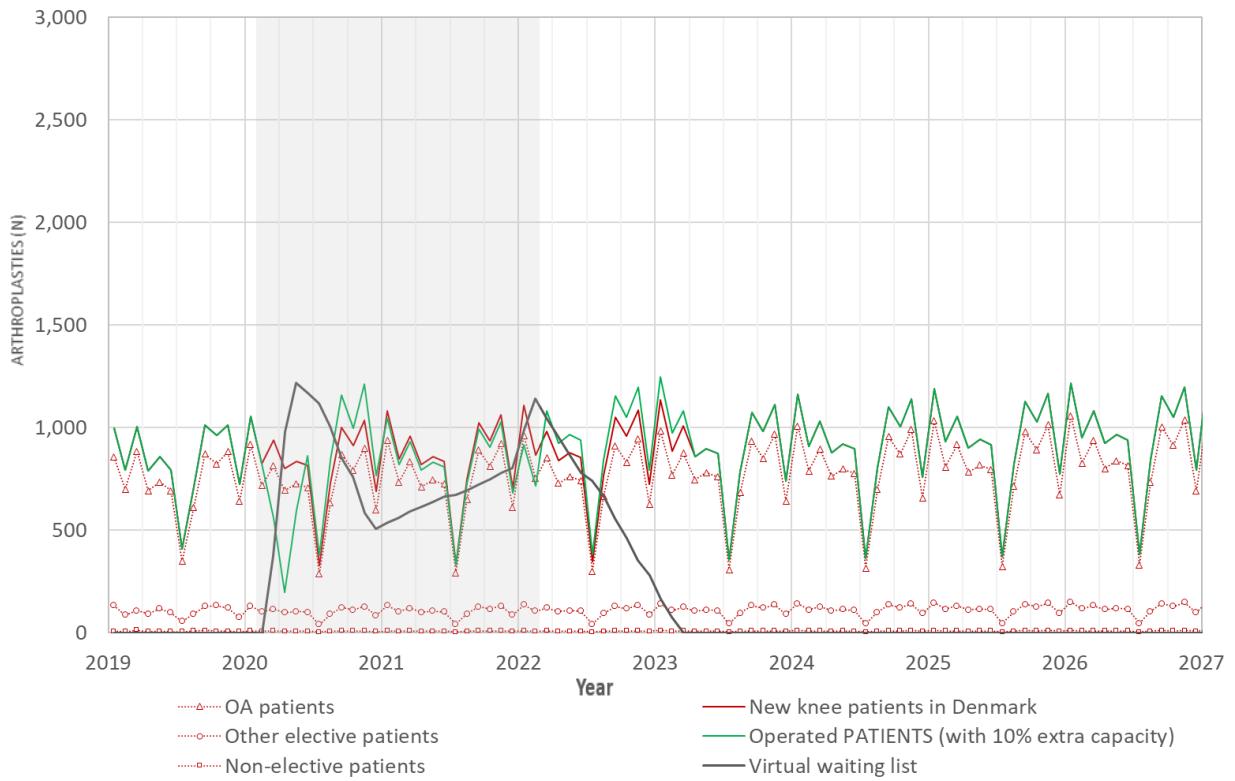
**Fig b.** a) Virtual waiting list for the Dutch hip population, including operated and arriving numbers of patients by indication. b) Virtual waiting list for the Dutch knee population, including operated and arriving numbers of patients by indication. c) Virtual waiting list for the Dutch shoulder population, including operated and arriving numbers of patients by indication. d) Virtual waiting list for the Danish hip population, including operated and arriving numbers of patients by indication. e) Virtual waiting list for the Danish knee population, including operated and arriving numbers of patients by indication. OA, osteoarthritis.

Table i. Elective primary hip arthroplasty for osteoarthritis in the Netherlands: patient and prosthesis characteristics.

| Characteristic | 2019 (n = 28,832) | January (n = 2,600) | February (n = 2,304) | March (n = 1,285) | April (n = 94) | May (n = 1,094) | June (n = 2,251) | July (n = 2,742) | August (n = 1,866) | September (n = 3,404) | October (n = 2,115) | November (n = 1,675) | December (n = 1,809) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Age, n (%)** | | | | | | | | | | | | | |
| < 40 | 121 (0.4) | 12 (0.5) | 9 (0.4) | 7 (0.5) | 1 (1.1) | 4 (0.4) | 8 (0.4) | 9 (0.3) | 10 (0.5) | 15 (0.4) | 7 (0.3) | 5 (0.3) | 10 (0.6) |
| 40 to 45 | 148 (0.5) | 20 (0.8) | 10 (0.4) | 6 (0.5) | 2 (2.1) | 9 (0.8) | 10 (0.4) | 17 (0.6) | 13 (0.7) | 15 (0.4) | 14 (0.7) | 10 (0.6) | 8 (0.4) |
| 45 to 50 | 547 (1.9) | 39 (1.5) | 40 (1.7) | 41 (3.2) | 5 (5.3) | 21 (1.9) | 26 (1.2) | 46 (1.7) | 27 (1.4) | 70 (2.1) | 36 (1.7) | 37 (2.2) | 30 (1.7) |
| 50 to 55 | 1,265 (4.4) | 117 (4.5) | 106 (4.6) | 53 (4.1) | 5 (5.3) | 67 (6.1) | 94 (4.2) | 85 (3.1) | 80 (4.3) | 156 (4.6) | 102 (4.8) | 94 (5.6) | 96 (5.3) |
| 55 to 60 | 2,109 (7.3) | 196 (7.5) | 190 (8.2) | 93 (7.2) | 10 (10.6) | 104 (9.5) | 176 (7.8) | 199 (7.3) | 137 (7.3) | 262 (7.7) | 167 (7.9) | 141 (8.4) | 172 (9.5) |
| 60 to 65 | 3,574 (12.4) | 321 (12.3) | 256 (11.1) | 136 (10.6) | 14 (14.9) | 168 (15.4) | 265 (11.8) | 323 (11.8) | 246 (13.2) | 431 (12.7) | 303 (14.3) | 216 (12.9) | 249 (13.8) |
| 65 to 70 | 5,132 (17.8) | 478 (18.4) | 437 (19.0) | 256 (19.9) | 14 (14.9) | 198 (18.1) | 367 (16.3) | 473 (17.3) | 305 (16.3) | 578 (17.0) | 383 (18.1) | 329 (19.6) | 338 (18.7) |
| 70 to 75 | 6,565 (22.8) | 621 (23.9) | 511 (22.2) | 295 (23.0) | 14 (14.9) | 215 (19.7) | 521 (23.1) | 608 (22.2) | 438 (23.5) | 754 (22.2) | 461 (21.8) | 362 (21.6) | 367 (20.3) |
| 75 to 80 | 4,979 (17.3) | 414 (15.9) | 396 (17.2) | 212 (16.5) | 15 (16.0) | 179 (16.4) | 412 (18.3) | 523 (19.1) | 343 (18.4) | 588 (17.3) | 358 (16.9) | 281 (16.8) | 293 (16.2) |
| 80 to 85 | 3,007 (10.4) | 265 (10.2) | 232 (10.1) | 125 (9.7) | 7 (7.4) | 84 (7.7) | 247 (11.0) | 314 (11.5) | 181 (9.7) | 379 (11.10) | 197 (9.3) | 138 (8.2) | 179 (9.9) |
| 85 to 90 | 1,175 (4.1) | 102 (3.9) | 101 (4.4) | 50 (3.9) | 7 (7.4) | 38 (3.5) | 110 (4.9) | 123 (4.5) | 78 (4.2) | 128 (3.8) | 80 (3.8) | 54 (3.2) | 59 (3.3) |
| 90 to 95 | 188 (0.7) | 14 (0.5) | 15 (0.7) | 11 (0.9) | - | 7 (0.6) | 14 (0.6) | 21 (0.8) | 8 (0.4) | 26 (0.8) | 7 (0.3) | 8 (0.5) | 6 (0.3) |
| 95 to 100 | 22 (0.1) | 1 (0.0) | 1 (0.0) | - | - | - | 1 (0.0) | 1 (0.0) | - | 2 (0.1) | - | - | 2 (0.1) |
| 100 to 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ≥ 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Female, n (%)** | 18,621 (64.6) | 1,706 (65.6) | 1,503 (65.2) | 821 (63.9) | 57 (60.6) | 707 (64.6) | 1,453 (64.5) | 1,812 (66.1) | 1,195 (64.0) | 2,218 (65.2) | 1,357 (64.2) | 1,043 (62.3) | 1,149 (63.5) |
| **BMI, n (%)** | | | | | | | | | | | | | |
| Underweight | 204 (0.7) | 12 (0.5) | 11 (0.5) | 7 (0.5) | 1 (1.1) | 6 (0.5) | 19 (0.8) | 19 (0.7) | 14 (0.8) | 21 (0.6) | 13 (0.6) | 13 (0.8) | 10 (0.6) |
| Normal weight | 9,319 (32.3) | 806 (31.0) | 715 (31.0) | 408 (31.8) | 36 (38.3) | 354 (32.4) | 750 (33.3) | 905 (33.0) | 628 (33.7) | 1,103 (32.4) | 737 (34.8) | 557 (33.3) | 576 (31.8) |
| Overweight | 12,093 (41.9) | 1,059 (40.7) | 958 (41.6) | 560 (43.6) | 36 (38.3) | 424 (38.8) | 926 (41.1) | 1,120 (40.8) | 771 (41.3) | 1,390 (40.8) | 845 (40.0) | 723 (43.2) | 767 (42.4) |
| Obese | 6,823 (23.7) | 634 (24.4) | 547 (23.7) | 272 (21.2) | 20 (21.3) | 273 (25.0) | 489 (21.7) | 612 (22.3) | 388 (20.8) | 773 (22.7) | 423 (20.0) | 325 (19.4) | 403 (22.3) |
| Morbidly obese | 334 (1.2) | 38 (1.5) | 22 (1.0) | 18 (1.4) | - | 10 (0.9) | 25 (1.1) | 31 (1.1) | 24 (1.3) | 42 (1.2) | 24 (1.1) | 15 (0.9) | 19 (1.1) |
| Missing | 59 (0.2) | 51 (2.0) | 51 (2.2) | 20 (1.6) | 1 (1.1) | 27 (2.5) | 42 (1.9) | 55 (2.0) | 41 (2.2) | 75 (2.2) | 73 (3.5) | 42 (2.5) | 34 (1.9) |
| **ASA, n (%)** | | | | | | | | | | | | | |
| I | 4,539 (15.1) | 375 (14.4) | 353 (15.3) | 195 (15.2) | 15 (16.0) | 197 (18.0) | 318 (14.1) | 422 (15.4) | 288 (15.4) | 513 (15.1) | 352 (16.6) | 312 (18.6) | 326 (18.0) |
| II | 17,969 (62.3) | 1,643 (63.2) | 1,459 (63.3) | 829 (64.5) | 65 (69.1) | 680 (62.2) | 1,377 (61.2) | 1,655 (60.4) | 1,171 (62.8) | 2,116 (62.2) | 1,343 (63.5) | 1,072 (64.0) | 1,118 (61.8) |
| III-IV | 6,504 (22.6) | 581 (22.3) | 492 (21.4) | 259 (20.2) | 14 (14.9) | 217 (19.8) | 5,556 (24.7) | 664 (24.2) | 406 (21.8) | 775 (22.8) | 419 (19.8) | 291 (17.4) | 361 (20.0) |
| **Charnley classification, n (%)** | | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 11,796 (40.9) | 1,054 (40.5) | 989 (39.0) | 525 (40.9) | 47 (50.0) | 447 (40.9) | 907 (40.3) | 1,119 (40.8) | 793 (42.5) | 1,392 (40.9) | 867 (41.0) | 710 (42.4) | 770 (42.6) |
| B | 16,034 (55.6) | 1,450 (55.8) | 1,319 (57.2) | 714 (55.6) | 45 (47.9) | 610 (55.8) | 1,256 (55.8) | 1,512 (55.2) | 1,006 (53.9) | 1,902 (55.8) | 1,174 (55.5) | 914 (54.6) | 976 (54.0) |
| C | 846 (2.9) | 80 (3.1) | 80 (3.5) | 38 (3.0) | - | 31 (2.8) | 72 (3.2) | 90 (3.3) | 53 (2.8) | 84 (2.5) | 55 (2.6) | 35 (2.1) | 44 (2.4) |
| Missing | 156 (0.5) | 16 (0.6) | 7 (0.3) | 8 (0.6) | 2 (2.1) | 6 (0.5) | 16 (0.7) | 21 (0.8) | 14 (0.8) | 26 (0.8) | 19 (0.9) | 16 (1.0) | 19 (1.1) |
| **Type of hospital, n (%)** | | | | | | | | | | | | | |
| Public | 25,350 (87.9) | 2,285 (87.9) | 2,014 (87.4) | 1,124 (87.5) | 82 (87.2) | 887 (81.1) | 1,891 (84.0) | 2,271 (82.8) | 1,581 (84.7) | 2,899 (85.2) | 1,691 (80.0) | 1,183 (70.6) | 1,410 (77.9) |
| Private | 3,482 (12.1) | 315 (12.1) | 290 (12.6) | 161 (12.5) | 12 (12.8) | 207 (18.9) | 360 (16.0) | 471 (17.2) | 285 (15.3) | 505 (14.8) | 424 (20.0) | 492 (29.4) | 399 (22.1) |
| **Fixation, n (%)** | | | | | | | | | | | | | |
| Cemented | 6,159 (21.4) | 526 (20.2) | 462 (20.0) | 257 (20.0) | 14 (14.9) | 161 (14.7) | 443 (19.6) | 545 (19.9) | 383 (20.6) | 679 (20.0) | 381 (18.0) | 284 (17.0) | 315 (17.4) |
| Uncemented | 19,988 (69.3) | 1,820 (70.0) | 1,599 (69.4) | 905 (70.4) | 71 (75.5) | 835 (76.3) | 1,590 (70.6) | 1,930 (70.4) | 1,308 (70.1) | 2,380 (69.9) | 1,564 (73.9) | 1,264 (75.5) | 1,352 (74.7) |
| Hybrid | 2,678 (9.3) | 254 (9.8) | 243 (10.6) | 123 (9.6) | 9 (9.5) | 97 (9.0) | 218 (9.8) | 267 (9.7) | 175 (9.3) | 345 (10.1) | 170 (8.1) | 127 (7.5) | 142 (7.9) |
| **Mean EQ-5D (SD)** | 0.529 (0.192) | 0.530 (0.193) | 0.519 (0.194) | 0.528 (0.192) | 0.456 (0.215) | 0.515 (0.219) | 0.525 (0.195) | 0.524 (0.208) | 0.517 (0.212) | 0.521 (0.208) | 0.533 (0.222) | 0.528 (0.228) | 0.509 (0.237) |

ASA, American Society of Anesthesiologists; EQ-5D; EuroQoL five-dimension questionnaire; SD, standard deviation.

**Table ii.** Elective primary hip arthroplasty for osteoarthritis in Denmark: patient and prosthesis characteristics.

| Characteristic | 2019 (n = 9,166) | 2020 January (n = 1,404) | February (n = 1,400) | March (n = 1,626) | April (n = 1,102) | May (n = 1,409) | June (n = 1,471) | July (n = 490) | August (n = 973) | September (n = 1,444) | October (n = 944) | November (n = 1,076) | December (n = 672) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Age, n (%)** | | | | | | | | | | | | | |
| < 40 | 40 (0.4) | 8 (0.6) | 6 (0.4) | Masked | Masked | 5 (0.4) | Masked | 5 (1.0) | 7 (0.7) | 6 (0.4) | < 5 (.) | 7 (0.7) | < 5 (.) |
| 40 to 45 | 81 (0.9) | 17 (1.2) | Masked | 10 (0.6) | 10 (0.9) | 8 (0.6) | 11 (0.7) | 0 (0.0) | 11 (1.1) | 13 (0.9) | < 5 (.) | 6 (0.6) | 9 (1.3) |
| 45 to 50 | 231 (2.5) | 36 (2.6) | 38 (2.7) | 42 (2.6) | 27 (2.5) | 27 (1.9) | 39 (2.7) | 8 (1.6) | 22 (2.3) | 27 (1.9) | 31 (3.3) | 23 (2.1) | 24 (3.6) |
| 50 to 55 | 472 (5.1) | 87 (6.2) | 75 (5.4) | 93 (5.7) | 63 (5.7) | 76 (5.4) | 79 (5.4) | 26 (5.3) | 51 (5.2) | 67 (4.6) | 52 (5.5) | 51 (4.7) | 45 (6.7) |
| 55 to 60 | 755 (8.2) | 116 (8.3) | 126 (9.0) | 160 (9.8) | 104 (9.4) | 121 (8.6) | 129 (8.8) | 40 (8.2) | 97 (10.0) | 120 (8.3) | 68 (7.2) | 68 (6.3) | 64 (9.5) |
| 60 to 65 | 1,015 (11.1) | 183 (13.0) | 154 (11.0) | 184 (11.3) | 130 (11.8) | 156 (11.1) | 161 (10.9) | 55 (11.2) | 104 (10.7) | 144 (10.0) | 104 (11.0) | 151 (14.0) | 66 (9.8) |
| 65 to 70 | 1,466 (16.0) | 220 (15.7) | 222 (15.9) | 258 (15.9) | 172 (15.6) | 217 (15.4) | 205 (13.9) | 81 (16.5) | 142 (14.6) | 224 (15.5) | 166 (17.6) | 181 (16.8) | 110 (16.4) |
| 70 to 75 | 2,040 (22.3) | 297 (21.2) | 300 (21.4) | 328 (20.2) | 220 (20.0) | 308 (21.9) | 306 (20.8) | 93 (19.0) | 215 (22.1) | 290 (20.1) | 196 (20.8) | 222 (20.6) | 142 (21.1) |
| 75 to 80 | 1,674 (18.3) | 241 (17.2) | 262 (18.7) | 316 (19.4) | 201 (18.2) | 252 (17.9) | 289 (19.6) | 98 (20.0) | 180 (18.5) | 316 (21.9) | 171 (18.1) | 193 (17.9) | 120 (17.9) |
| 80 to 85 | 1,006 (11.0) | 131 (9.3) | 136 (9.7) | 156 (9.6) | 119 (10.8) | 163 (11.6) | 167 (11.4) | 61 (12.4) | 106 (10.9) | 164 (11.4) | 103 (10.9) | 125 (11.6) | 52 (7.7) |
| 85 to 90 | 315 (3.4) | 62 (4.4) | 54 (3.9) | 54 (3.3) | 47 (4.3) | 63 (4.5) | 67 (4.6) | 18 (3.7) | 33 (3.4) | 63 (4.4) | 36 (3.8) | 41 (3.8) | 31 (4.6) |
| 90 to 95 | 61 (0.7) | 6 (0.4) | 12 (0.9) | 12 (0.7) | 8 (0.7) | 13 (0.9) | 6 (0.4) | < 5 (.) | 5 (0.5) | 10 (0.7) | 9 (1.0) | 8 (0.7) | < 5 (.) |
| 95 to 100 | 10 (0.1) | 0 (0.0) | < 5 (.) | < 5 (.) | < 5 (.) | - | < 5 (.) | < 5 (.) | 0 (0.0) | 0 (0.0) | < 5 (.) | 0 (0.0) | < 5 (.) |
| 100 to 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ≥ 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Female, n (%)** | 5,101 (55.7) | 757 (53.9) | 771 (55.1) | 922 (56.7) | 605 (54.9) | 782 (55.5) | 860 (58.5) | 279 (56.9) | 534 (54.9) | 822 (56.9) | 528 (55.9) | 588 (54.6) | 352 (52.4) |
| **BMI, n (%)** | | | | | | | | | | | | | |
| Underweight | 79 (0.9) | 10 (0.7) | 11 (0.8) | 16 (1.0) | Masked | 15 (1.1) | 13 (0.9) | < 5 (.) | 8 (0.8) | 13 (0.9) | 10 (1.1) | Masked | < 5 (.) |
| Normal weight | 2,787 (30.4) | 424 (30.2) | 456 (32.6) | 540 (33.2) | 345 (31.3) | 397 (28.2) | 429 (29.2) | 157 (32.0) | 272 (28.0) | 428 (29.6) | 331 (35.1) | 342 (31.8) | 209 (31.1) |
| Overweight | 3,562 (38.9) | 564 (40.2) | 554 (39.6) | 603 (37.1) | 463 (42.0) | 585 (41.5) | 588 (40.0) | 187 (38.2) | 379 (39.0) | 556 (38.5) | 318 (33.7) | 453 (42.1) | 295 (43.9) |
| Obese | 2,196 (24.0) | 352 (25.1) | 325 (23.2) | 422 (26.0) | 261 (23.7) | 360 (25.6) | 377 (25.6) | 128 (26.1) | 269 (27.6) | 380 (26.3) | 234 (24.8) | 240 (22.3) | 151 (22.5) |
| Morbidly obese | 219 (2.4) | 22 (1.6) | 27 (1.9) | 31 (1.9) | 22 (2.0) | 27 (1.9) | 40 (2.7) | 8 (1.6) | 19 (2.0) | 35 (2.4) | 19 (2.0) | 24 (2.2) | 12 (1.8) |
| Missing | 323 (3.5) | 32 (2.3) | 27 (1.9) | 14 (0.9) | < 5 (.) | 25 (1.8) | 24 (1.6) | Masked | 26 (2.7) | 32 (2.2) | 32 (3.4) | < 5 (.) | < 5 (.) |
| **ASA, n (%)** | | | | | | | | | | | | | |
| I | 1,589 (18.9) | 241 (18.2) | 232 (17.3) | 295 (18.4) | 174 (15.9) | 249 (18.1) | 244 (16.9) | 62 (13.0) | 168 (17.9) | 232 (16.7) | 184 (20.2) | 204 (19.1) | 129 (19.4) |
| II | 5,324 (63.3) | 852 (64.3) | 868 (64.6) | 1,037 (64.7) | 724 (66.3) | 848 (61.6) | 906 (62.9) | 296 (62.2) | 602 (64.0) | 904 (64.9) | 565 (62.0) | 677 (63.4) | 418 (62.8) |
| III-IV | 1,493 (17.8) | 233 (17.6) | 244 (18.2) | 271 (16.9) | 194 (17.8) | 279 (20.3) | 290 (20.1) | 118 (24.8) | 171 (18.2) | 257 (18.4) | 162 (17.8) | 187 (17.5) | 119 (17.9) |
| **Charnley classification, n (%)** | | | | | | | | | | | | | |
| A | 5,516 (60.2) | 857 (61.0) | 851 (60.8) | 950 (58.4) | 648 (58.8) | 834 (59.2) | 883 (60.0) | 297 (60.6) | 589 (60.5) | 883 (61.1) | 579 (61.3) | 669 (62.2) | 431 (64.1) |
| | 3,573 (39.0) | 538 (38.3) | 538 (38.4) | 670 (41.2) | 449 (40.7) | 567 (40.2) | Masked | 186 (38.0) | Masked | 547 (37.9) | 547 (37.9) | 401 (37.3) | 236 (35.1) |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B | Masked | Masked | 11 (0.8) | 6 (0.4) | 5 (0.5) | Masked | < 5 (.) | 7 (1.4) | < 5 (.) | Masked | Masked | 6 (0.6) | < 5 (.) |
| C<br>Missing | < 5 (.) | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) |
| **Type of hospital, n (%)**<br>Public<br>Private | 8,142 (88.8)<br>1,024 (11.2) | 1,110 (79.1)<br>294 (20.9) | 1,086 (77.6)<br>314 (22.4) | 1,257(77.3)<br>369 (22.7) | 858 (77.9)<br>244 (22.1) | 1,184(84.0)<br>225 (16.0) | 1,249 (84.9)<br>222 (15.1) | 332 (67.8)<br>158 (32.2) | 693 (71.2)<br>280 (28.8) | 1,107 (76.7)<br>337 (23.3) | 752 (79.7)<br>192 (20.3) | 872 (81.0)<br>204 (19.0) | 514 (76.5)<br>158 (23.5) |
| **Fixation, n (%)**<br>Cemented<br>Uncemented<br>Hybrid | 565 (6.2)<br>6,505 (71.0)<br>1,916 (20.9) | 101 (7.2)<br>1,031 (73.4)<br>267 (19.0) | 85 (6.1)<br>1,035 (73.9)<br>273 (19.5) | 108 (6.6)<br>1,174 (72.2)<br>333 (20.5) | Masked<br>763 (69.2)<br>243 (22.1) | 106 (7.5)<br>985 (69.9)<br>306 (21.7) | 104 (7.1)<br>1,036 (70.4)<br>312 (21.2) | 55 (11.2)<br>354 (72.2)<br>75 (15.3) | 54 (5.5)<br>692 (71.1)<br>210 (21.6) | 116 (8.0)<br>998 (69.1)<br>318 (22.0) | 57 (6.0)<br>694 (73.5)<br>171 (18.1) | 55 (5.1)<br>796 (74.0)<br>220 (20.4) | Masked<br>502 (74.7)<br>131 (19.5) |

ASA, American Society of Anesthesiologists.

Table iii. Elective primary hip arthroplasty for other elective indications in the Netherlands: patient and prosthesis characteristics.

| Characteristic | 2019 (n = 1,889) | 2020 January (n = 163) | February (n = 153) | March (n = 85) | April (n = 35) | May (n = 132) | June (n = 157) | July (n = 201) | August (n = 125) | September (n = 229) | October (n = 117) | November (n = 125) | December (n = 142) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Age, n (%)** | | | | | | | | | | | | | |
| < 40 | 183 (9.7) | 23 (14.1) | 11 (7.2) | 19 (22.4) | 3 (8.6) | 14 (10.6) | 26 (16.6) | 25 (12.4) | 13 (10.4) | 32 (14.0) | 19 (16.2) | 14 (11.2) | 15 (10.6) |
| 40 to 45 | 120 (6.4) | 8 (4.9) | 8 (5.2) | 8 (9.4) | 1 (2.9) | 4 (3.0) | 9 (5.7) | 12 (6.0) | 8 (6.4) | 10 (4.4) | 3 (2.6) | 9 (7.2) | 7 (4.9) |
| 45 to 50 | 173 (9.2) | 15 (9.2) | 21 (13.7) | 7 (8.2) | 1 (2.9) | 9 (6.8) | 15 (9.6) | 14 (7.0) | 14 (11.2) | 25 (10.9) | 7 (6.0) | 3 (2.4) | 16 (11.3) |
| 50 to 55 | 209 (11.1) | 11 (6.7) | 16 (10.5) | 8 (9.4) | 4 (11.4) | 11 (8.3) | 14 (8.9) | 24 (11.9) | 14 (11.2) | 19 (8.3) | 12 (10.3) | 18 (14.4) | 13 (9.2) |
| 55 to 60 | 225 (11.9) | 26 (16.0) | 15 (9.8) | 7 (8.2) | 1 (2.9) | 22 (16.7) | 6 (3.8) | 19 (9.5) | 12 (9.6) | 22 (9.6) | 13 (11.1) | 14 (11.2) | 12 (8.5) |
| 60 to 65 | 226 (12.0) | 15 (9.2) | 30 (19.6) | 10 (11.8) | 6 (17.1) | 14 (10.6) | 18 (11.5) | 19 (9.5) | 11 (8.8) | 32 (14.0) | 15 (12.8) | 15 (12.0) | 20 (14.1) |
| 65 to 70 | 222 (11.8) | 12 (7.4) | 11 (7.2) | 7 (8.2) | 2 (5.7) | 14 (10.6) | 12 (7.6) | 22 (10.9) | 13 (10.4) | 22 (9.6) | 13 (11.1) | 10 (8.0) | 16 (11.3) |
| 70 to 75 | 208 (11.0) | 25 (15.3) | 14 (9.2) | 8 (9.4) | 6 (17.1) | 17 (12.9) | 15 (9.6) | 21 (10.4) | 10 (8.0) | 25 (10.9) | 14 (12.0) | 19 (15.2) | 13 (9.2) |
| 75 to 80 | 158 (8.4) | 9 (5.5) | 11 (7.2) | 5 (5.9) | 5 (14.3) | 17 (12.9) | 17 (10.8) | 24 (11.9) | 14 (11.2) | 17 (7.4) | 8 (6.8) | 11 (8.8) | 15 (10.6) |
| 80 to 85 | 98 (5.2) | 14 (8.6) | 10 (6.5) | 5 (5.9) | 2 (5.7) | 7 (5.3) | 15 (9.6) | 8 (4.0) | 10 (8.0) | 15 (6.6) | 6 (5.1) | 8 (6.4) | 10 (7.0) |
| 85 to 90 | 51 (2.7) | 4 (2.5) | 5 (3.3) | 1 (1.2) | 3 (8.6) | 3 (2.3) | 6 (3.8) | 10 (5.0) | 4 (3.2) | 9 (3.9) | 5 (4.3) | 4 (3.2) | 3 (2.1) |
| 90 to 95 | 15 (0.8) | 1 (0.6) | 1 (0.7) | - | 1 (2.9) | - | 4 (2.5) | 2 (1.0) | 2 (1.6) | 1 (0.4) | 2 (1.7) | - | 2 (1.4) |
| 95 to 100 | 1 (0.1) | - | - | - | - | - | - | 1 (0.5) | - | - | - | - | - |
| 100 to 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ≥ 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Female, n (%)** | 1,126 (59.6) | 91 (55.8) | 96 (62.7) | 51 (60.0) | 19 (54.3) | 82 (62.1) | 90 (57.3) | 131 (65.2) | 73 (58.4) | 139 (60.7) | 77 (65.8) | 77 (61.6) | 85 (59.9) |
| **BMI, n (%)** | | | | | | | | | | | | | |
| Underweight | 40 (2.1) | 2 (1.2) | 4 (2.6) | 1 (1.2) | - | 1 (0.8) | 2 (1.3) | 6 (3.0) | 3 (2.4) | 2 (0.9) | 2 (1.7) | 7 (5.6) | 3 (2.1) |
| Normal weight | 756 (40.0) | 54 (33.1) | 52 (34.0) | 32 (37.6) | 18 (51.4) | 52 (39.4) | 65 (41.4) | 83 (41.3) | 43 (34.4) | 88 (38.4) | 51 (43.6) | 49 (39.2) | 52 (36.6) |
| Overweight | 680 (36.0) | 63 (38.7) | 62 (40.5) | 26 (30.6) | 9 (25.7) | 43 (32.6) | 49 (31.2) | 69 (34.3) | 37 (29.6) | 75 (32.8) | 41 (35.0) | 42 (33.60) | 49 (34.5) |
| Obese | 377 (20.0) | 36 (22.1) | 29 (19.0) | 23 (27.1) | 6 (17.1) | 29 (22.0) | 34 (21.7) | 35 (17.4) | 34 (27.2) | 52 (22.7) | 20 (17.1) | 23 (18.4) | 35 (24.6) |
| Morbidly obese | 32 (1.7) | 2 (1.2) | 2 (1.3) | 1 (1.2) | 2 (5.7) | 3 (2.3) | 5 (3.2) | 2 (1.0) | 1 (0.8) | 3 (1.3) | 1 (0.9) | 1 (0.8) | 1 (0.7) |
| Missing | 4 (0.2) | 6 (3.7) | 4 (2.6) | 2 (2.4) | - | 4 (3.0) | 2 (1.3) | 6 (3.0) | 7 (5.6) | 9 (3.9) | 2 (1.7) | 3 (2.4) | 2 (1.4) |
| **ASA, n (%)** | | | | | | | | | | | | | |
| I | 341 (18.1) | 31 (19.0) | 29 (19.0) | 17 (20.0) | 6 (17.1) | 21 (15.9) | 24 (15.3) | 40 (19.9) | 20 (16.0) | 41 (17.9) | 20 (17.1) | 27 (21.6) | 25 (17.6) |
| II | 1,015 (53.7) | 89 (54.6) | 76 (49.7) | 40 (47.1) | 13 (37.1) | 74 (56.1) | 77 (49.0) | 105 (15.2) | 60 (48.0) | 131 (57.2) | 63 (53.8) | 64 (1.2) | 75 (52.8) |
| III-IV | 533 (28.2) | 43 (26.4) | 48 (31.40) | 28 (32.9) | 16 (45.7) | 37 (28.0) | 55 (35.0) | 56 (27.9) | 45 (36.0) | 57 (24.9) | 34 (29.1) | 33 (26.4) | 42 (29.6) |
| **Type of hospital, n (%)** | | | | | | | | | | | | | |
| Public | 1,731 (91.6) | 144 (88.3) | 138 (90.2) | 78 (91.8) | 34 (97.1) | 119 (90.2) | 143 (91.1) | 176 (87.6) | 114 (91.2) | 208 (90.8) | 105 (89.7) | 108 (86.4) | 120 (84.5) |
| Private | 158 (8.4) | 19 (11.7) | 15 (9.8) | 7 (8.2) | 1 (2.9) | 13 (9.8) | 14 (8.9) | 25 (12.4) | 11 (8.8) | 21 (9.2) | 12 (10.3) | 17 (13.6) | 22 (15.5) |
| **Fixation, n (%)** | | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cemented<br>Uncemented<br>Hybrid | 542 (28.7)<br>1,081 (57.2)<br>264 (14.0) | 41 (25.2)<br>94 (57.7)<br>28 (17.2) | 56 (36.6)<br>77 (50.3)<br>20 (13.1) | 21 (24.7)<br>43 (50.6)<br>21 (24.7) | 12 (34.3)<br>16 (45.7)<br>7 (20.0) | 40 (30.3)<br>73 (55.3)<br>19 (14.4) | 45 (28.7)<br>90 (57.3)<br>21 (13.4) | 51 (25.4)<br>118 (58.7)<br>32 (15.9) | 39 (31.2)<br>60 (48.0)<br>26 (20.8) | 59 (25.8)<br>124 (54.1)<br>46 (20.1) | 33 (28.2)<br>70 (59.8)<br>14 (12.0) | 37 (29.6)<br>64 (51.2)<br>24 (19.2) | 42 (29.6)<br>78 (54.9)<br>22 (15.5) |
| **Mean EQ-5D (SD)** | 0.541 (0.206) | - | - | - | - | 0.417 (0.117) | 0.568 (0.225) | 0.421 (0.201) | - | 0.476 (0.217) | 0.403 (0.092) | 0.663 | 0.360 |

ASA, American Society of Anesthesiologists; EQ-5D, EuroQoL-five-dimension questionnaire; SD, standard deviation.

Table iv. Elective primary hip arthroplasty for other elective indications in Denmark: patient and prosthesis characteristics.

| Characteristic | 2019 (n = 877) | 2020 January (n = 152) | February (n = 126) | March (n = 161) | April (n = 100) | May (n = 152) | June (n = 152) | July (n = 61) | August (n = 99) | September (n = 134) | October (n = 85) | November (n = 109) | December (n = 60) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Age, n (%)** | | | | | | | | | | | | | |
| < 40 | 128 (14.6) | 12 (7.9) | 18 (14.3) | 16 (9.9) | 17 (17.0) | 11 (7.2) | 24 (15.8) | < 5 (.) | 16 (16.2) | 15 (11.2) | 9 (10.6) | 11 (10.1) | < 5 (.) |
| 40 to 45 | 65 (7.4) | 13 (8.6) | 11 (8.7) | 12 (7.5) | < 5 (.) | 11 (7.2) | 5 (3.3) | < 5 (.) | < 5 (.) | 6 (4.5) | 7 (8.2) | 12 (11.0) | 5 (8.3) |
| 45 to 50 | 114 (13.0) | 17 (11.2) | 21 (16.7) | 20 (12.4) | 11 (11.0) | 17 (11.2) | 20 (13.2) | 11 (18.0) | 7 (7.1) | 20 (14.9) | 9 (10.6) | 13 (11.9) | 7 (11.7) |
| 50 to 55 | 106 (12.1) | 24 (15.8) | 19 (15.1) | 24 (14.9) | 21 (21.0) | 26 (17.1) | 16 (10.5) | 12 (19.7) | 10 (10.1) | 20 (14.9) | 12 (14.1) | 17 (15.6) | 10 (16.7) |
| 55 to 60 | 102 (11.6) | 19 (12.5) | 10 (7.9) | 22 (13.7) | 8 (8.0) | 15 (9.9) | 19 (12.5) | 7 (11.5) | 14 (14.1) | 21 (15.7) | 17 (20.0) | 15 (13.8) | 14 (23.3) |
| 60 to 65 | 93 (10.6) | 15 (9.9) | 11 (8.7) | 14 (8.7) | 12 (12.0) | 17 (11.2) | 9 (5.9) | < 5 (.) | 11 (11.1) | 17 (12.7) | 6 (7.1) | 13 (11.9) | < 5 (.) |
| 65 to 70 | 72 (8.2) | 17 (11.2) | 9 (7.1) | 14 (8.7) | 12 (12.0) | 19 (12.5) | 15 (9.9) | < 5 (.) | 9 (9.1) | 12 (9.0) | 6 (7.1) | < 5 (.) | 5 (8.3) |
| 70 to 75 | 82 (9.4) | 15 (9.9) | 10 (7.9) | 13 (8.1) | < 5 (.) | 19 (12.5) | 16 (10.5) | 8 (13.1) | 14 (14.1) | 11 (8.2) | 7 (8.2) | 8 (7.3) | < 5 (.) |
| 75 to 80 | 65 (7.4) | 12 (7.9) | 9 (7.1) | 10 (6.2) | 5 (5.0) | 8 (5.3) | 13 (8.6) | 8 (13.1) | 7 (7.1) | 5 (3.7) | < 5 (.) | < 5 (.) | < 5 (.) |
| 80 to 85 | 36 (4.1) | 8 (5.3) | < 5 (.) | Masked | 6 (6.0) | 5 (3.3) | 11 (7.2) | < 5 (.) | < 5 (.) | < 5 (.) | 5 (5.9) | 7 (6.4) | < 5 (.) |
| 85 to 90 | Masked | 0 (0.0) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | 5 (3.7) | < 5 (.) | < 5 (.) | < 5 (.) |
| 90 to 95 | < 5 (.) | 0 (0.0) | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) |
| 95 to 100 | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| 100 to 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ≥ 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Female, n (%)** | 493 (56.2) | 89 (58.6) | 70 (55.6) | 104 (64.6) | 60 (60.0) | 83 (54.6) | 88 (57.9) | 27 (44.3) | 55 (55.6) | 78 (58.2) | 40 (47.1) | 62 (56.9) | 37 (61.7) |
| **BMI, n (%)** | | | | | | | | | | | | | |
| Underweight | 13 (1.5) | < 5 (.) | 5 (4.0) | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) | < 5 (.) |
| Normal weight | 288 (32.8) | 57 (37.5) | 44 (34.9) | 54 (33.5) | 32 (32.0) | 51 (33.6) | 55 (36.2) | 16 (26.2) | 38 (38.4) | 48 (35.8) | 31 (36.5) | 43 (39.4) | 13 (21.7) |
| Overweight | 264 (30.1) | 50 (32.9) | 45 (35.7) | 61 (37.9) | 40 (40.0) | 57 (37.5) | 52 (34.2) | 21 (34.4) | 32 (32.3) | 40 (29.9) | 27 (31.8) | 31 (28.4) | 18 (30.0) |
| Obese | 182 (20.8) | 35 (23.0) | 27 (21.4) | 29 (18.0) | 21 (21.0) | 32 (21.1) | 35 (23.0) | 17 (27.9) | 18 (18.2) | 30 (22.4) | 18 (21.2) | 24 (22.0) | 19 (31.7) |
| Morbidly obese | 21 (2.4) | < 5 (.) | 0 (0.0) | 6 (3.7) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | 6 (4.5) | < 5 (.) | < 5 (.) | < 5 (.) |
| Missing | 109 (12.4) | 5 (3.3) | 5 (4.0) | Masked | 5 (5.0) | 9 (5.9) | 6 (3.9) | 5 (8.2) | 7 (7.1) | Masked | Masked | 8 (7.3) | 7 (11.7) |
| **ASA, n (%)** | | | | | | | | | | | | | |
| I | 261 (35.4) | 51 (35.2) | 45 (38.1) | 58 (37.7) | 42 (45.2) | 45 (31.5) | 42 (28.8) | 13 (22.8) | 33 (35.9) | 51 (40.2) | 30 (38.5) | 38 (37.3) | 20 (37.0) |
| II | 341 (46.3) | 69 (47.6) | 54 (45.8) | 62 (40.3) | 34 (36.6) | 68 (47.6) | 67 (45.9) | 32 (56.1) | 40 (43.5) | 57 (44.9) | 34 (43.6) | 46 (45.1) | 23 (42.6) |
| III-IV | 135 (18.3) | 25 (17.2) | 19 (16.1) | 34 (22.1) | 17 (18.3) | 30 (21.0) | 37 (25.3) | 12 (21.1) | 19 (20.7) | 19 (15.0) | 14 (17.9) | 18 (17.6) | 11 (20.4) |
| **Type of hospital, n (%)** | | | | | | | | | | | | | |
| Public | 746 (85.1) | 114 (75.0) | 95 (75.4) | 121 (75.2) | 79 (79.0) | 130 (85.5) | 120 (78.9) | 43 (70.5) | 77 (77.8) | 102 (76.1) | 61 (71.8) | 84 (77.1) | 43 (71.7) |
| Private | 131 (14.9) | 38 (25.0) | 31 (24.6) | 40 (24.8) | 21 (21.0) | 22 (14.5) | 32 (21.1) | 18 (29.5) | 22 (22.2) | 32 (23.9) | 24 (28.2) | 25 (22.9) | 17 (28.3) |

| Fixation, n (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cemented | 95 (10.8) | Masked | 9 (7.1) | 17 (10.6) | 10 (10.0) | 14 (9.2) | 18 (11.8) | 6 (9.8) | 7 (7.1) | <5 (.) | 8 (9.4) | 13 (11.9) | 8 (13.3) |
| Uncemented | 644 (73.4) | 123 (80.9) | 101 (80.2) | 117 (72.7) | 78 (78.0) | 115 (75.7) | 113 (74.3) | 46 (75.4) | 73 (73.7) | 113 (84.3) | 69 (81.2) | 83 (76.1) | 40 (66.7) |
| Hybrid | 118 (13.5) | 21 (13.8) | 16 (12.7) | Masked | 12 (12.0) | Masked | Masked | 9 (14.8) | Masked | 13 (9.7) | Masked | Masked | Masked |

ASA, American Society of Anesthesiologists.

Table v. Acute primary hip arthroplasty indications in the Netherlands: patient and prosthesis characteristics.

| Characteristic | 2019 (n = 8,127) | 2020 January (n = 756) | February (n = 653) | March (n = 727) | April (n = 598) | May (n = 681) | June (n = 652) | July (n = 828) | August (n = 631) | September (n = 863) | October (n = 662) | November (n = 599) | December (n = 766) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Age, n (%)** | | | | | | | | | | | | | |
| < 40 | 30 (0.4) | 5 (0.7) | 2 (0.3) | 1 (0.1) | 3 (0.5) | 2 (0.3) | - | 4 (0.5) | 2 (0.3) | 1 (0.1) | 2 (0.3) | 1 (0.2) | 5 (0.7) |
| 40 to 45 | 23 (0.3) | 5 (0.7) | 3 (0.5) | 3 (0.4) | - | 1 (0.1) | 3 (0.5) | 1 (0.1) | 2 (0.3) | 4 (0.5) | 4 (0.6) | 3 (0.5) | 2 (0.3) |
| 45 to 50 | 62 (0.8) | 15 (2.0) | 2 (0.3) | 5 (0.7) | 4 (0.7) | 5 (0.7) | 2 (0.3) | 7 (0.8) | 8 (1.3) | 2 (0.2) | 4 (0.6) | 2 (0.3) | 3 (0.4) |
| 50 to 55 | 115 (1.4) | 25 (3.3) | 6 (0.9) | 13 (1.8) | 8 (1.3) | 4 (0.6) | 5 (0.8) | 11 (1.3) | 7 (1.1) | 16 (1.9) | 7 (1.1) | 7 (1.2) | 13 (1.7) |
| 55 to 60 | 230 (2.8) | 38 (5.0) | 11 (1.7) | 17 (2.3) | 14 (2.3) | 20 (2.9) | 23 (3.5) | 28 (3.4) | 16 (2.5) | 30 (3.5) | 18 (2.7) | 18 (3.0) | 20 (2.6) |
| 60 to 65 | 433 (5.3) | 53 (7.0) | 39 (6.0) | 31 (4.3) | 25 (4.2) | 29 (4.3) | 44 (6.7) | 39 (4.7) | 31 (4.9) | 43 (5.0) | 25 (3.8) | 36 (6.0) | 36 (4.7) |
| 65 to 70 | 708 (8.7) | 103 (13.6) | 48 (7.4) | 48 (6.6) | 60 (10.0) | 53 (7.8) | 49 (7.5) | 84 (10.1) | 49 (7.8) | 76 (8.8) | 53 (8.0) | 50 (8.3) | 51 (6.7) |
| 70 to 75 | 1,081 (13.3) | 100 (13.2) | 75 (11.5) | 93 (12.8) | 84 (14.0) | 101 (14.8) | 100 (15.3) | 117 (14.1) | 82 (13.0) | 131 (15.2) | 83 (12.5) | 101 (16.9) | 118 (15.4) |
| 75 to 80 | 1,304 (16.0) | 149 (19.7) | 113 (17.3) | 112 (15.4) | 99 (16.6) | 96 (14.1) | 96 (14.7) | 125 (15.1) | 122 (19.3) | 135 (15.6) | 103 (15.6) | 94 (15.7) | 119 (15.5) |
| 80 to 85 | 1,614 (19.9) | 146 (19.3) | 139 (21.3) | 162 (22.3) | 119 (19.9) | 162 (23.8) | 133 (20.4) | 170 (20.5) | 136 (21.6) | 175 (20.3) | 142 (21.5) | 115 (19.2) | 151 (19.7) |
| 85 to 90 | 1,490 (18.3) | 89 (11.8) | 128 (19.6) | 141 (19.4) | 126 (21.1) | 125 (18.4) | 124 (19.0) | 143 (17.3) | 108 (17.1) | 145 (16.8) | 134 (20.2) | 108 (18.0) | 144 (18.8) |
| 90 to 95 | 837 (10.3) | 26 (3.4) | 65 (10.0) | 90 (12.4) | 43 (7.2) | 68 (10.0) | 56 (8.6) | 77 (9.3) | 53 (8.4) | 78 (9.0) | 69 (10.4) | 46 (7.7) | 77 (10.1) |
| 95 to 100 | 186 (2.3) | 2 (0.3) | 21 (3.2) | 11 (1.5) | 13 (2.2) | 13 (1.9) | 15 (2.3) | 21 (2.5) | 15 (2.4) | 23 (2.7) | 18 (2.7) | 16 (2.7) | 22 (2.9) |
| 100 to 105 | 14 (0.2) | - | 1 (0.2) | - | - | 2 (0.3) | 2 (0.3) | 1 (0.1) | - | 4 (0.5) | - | 2 (0.3) | 5 (0.7) |
| ≥ 105 | - | - | - | - | - | - | - | - | - | - | - | > - | - |
| **Female, n (%)** | 5,407 (66.5) | 481 (63.6) | 437 (66.9) | 456 (62.7) | 375 (62.7) | 405 (59.5) | 413 (63.3) | 556 (67.1) | 396 (62.8) | 537 (62.2) | 438 (66.2) | 383 (63.9) | 501 (65.4) |
| **BMI, n (%)** | | | | | | | | | | | | | |
| Underweight | 360 (4.4) | 29 (3.8) | 29 (4.4) | 22 (3.0) | 28 (4.7) | 19 (2.8) | 28 (4.3) | 32 (3.9) | 28 (4.4) | 39 (4.5) | 20 (3.0) | 27 (4.5) | 30 (3.9) |
| Normal weight | 3,905 (48.0) | 371 (49.1) | 310 (47.5) | 344 (47.3) | 290 (48.5) | 339 (49.8) | 310 (47.5) | 401 (48.4) | 315 (49.9) | 423 (49.0) | 356 (53.8) | 278 (46.4) | 361 (47.1) |
| Overweight | 2,378 (29.3) | 213 (28.2) | 188 (28.8) | 215 (29.6) | 161 (26.9) | 203 (29.8) | 199 (30.5) | 249 (30.1) | 152 (24.1) | 239 (27.7) | 165 (24.9) | 192 (32.1) | 221 (28.9) |
| Obese | 741 (9.1) | 52 (6.9) | 41 (6.3) | 65 (8.9) | 43 (7.2) | 53 (7.8) | 47 (7.2) | 66 (8.0) | 63 (10.0) | 69 (8.0) | 57 (8.6) | 48 (8.0) | 60 (7.8) |
| Morbidly obese | 30 (0.4) | 2 (0.3) | 4 (0.6) | 3 (0.4) | 1 (0.2) | 3 (0.4) | 1 (0.2) | 4 (0.5) | 3 (0.5) | 6 (0.7) | 2 (0.3) | 2 (0.3) | 5 (0.7) |
| Missing | 713 (8.8) | 89 (11.8) | 81 (12.4) | 78 (10.7) | 75 (12.5) | 64 (9.4) | 67 (10.3) | 76 (9.2) | 70 (11.1) | 87 (10.1) | 62 (9.4) | 52 (8.7) | 89 (11.5) |
| **ASA, n (%)** | | | | | | | | | | | | | |
| I | 373 (4.6) | 27 (3.6) | 31 (4.7) | 27 (3.7) | 34 (5.7) | 35 (5.1) | 28 (4.3) | 41 (5.0) | 37 (5.9) | 36 (4.2) | 35 (5.3) | 32 (5.3) | 39 (5.1) |
| II | 2,925 (36.0) | 272 (36.0) | 229 (35.1) | 218 (30.8) | 200 (33.4) | 220 (23.3) | 232 (35.6) | 321 (38.8) | 209 (33.1) | 324 (37.5) | 208 (31.4) | 225 (37.6) | 246 (32.1) |
| III-IV | 4,825 (59.4) | 455 (60.2) | 391 (59.9) | 479 (65.9) | 364 (60.9) | 425 (62.4) | 391 (60.0) | 463 (55.9) | 382 (60.5) | 500 (57.9) | 417 (63.0) | 341 (56.9) | 478 (62.4) |
| **Type of hospital, n (%)** | | | | | | | | | | | | | |
| Public | 8,094 (99.6) | 753 (99.6) | 649 (99.4) | 725 (99.7) | 597 (99.8) | 677 (99.4) | 648 (99.4) | 822 (99.3) | 630 (99.8) | 857 (99.3) | 661 (99.8) | 592 (98.8) | 763 (99.6) |
| Private | 33 (0.44) | 3 (0.4) | 4 (0.6) | 2 (0.3) | 1 (0.2) | 4 (0.6) | 4 (0.6) | 6 (0.7) | 1 (0.2) | 6 (0.7) | 1 (0.2) | 7 (1.2) | 3 (0.4) |

| Fixation, n (%) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cemented | 5,449 (67.0) | 491 (64.9) | 430 (65.8) | 496 (68.2) | 406 (67.9) | 455 (66.8) | 442 (67.8) | 545 (65.8) | 435 (68.9) | 578 (67.0) | 471 (71.1) | 420 (70.1) | 544 (71.0) |
| Uncemented | 2,128 (26.2) | 204 (27.00 | 174 (26.6) | 175 (24.1) | 147 (24.6) | 175 (25.7) | 151 (23.2) | 208 (25.1) | 147 (23.3) | 205 (23.8) | 142 (21.5) | 137 (22.9) | 177 (23.1) |
| Hybrid | 544 (6.7) | 54 (7.1) | 35 (5.4) | 42 (5.8) | 35 (5.9) | 35 (5.1) | 47 (7.2) | 61 (7.4) | 41 (6.5) | 68 (7.9) | 37 (5.6) | 41 (6.8) | 45 (5.9) |
| Mean EQ-5D (SD) | 0.396 (0.246) | - | 0.420 | - | 0.541 (0.105) | 0.575 (0.102) | 0.577 (0.067) | 0.323 (0.150) | 0.653 (0.129) | 0.135 (0.254) | 0.428 (0.274) | 0.572 (0.245) | 0.506 (0.035) |

ASA, American Society of Anesthesiologists; EQ-5D; EuroQoL five-dimension questionnaire; SD, standard deviation.

Table vi. Acute primary hip arthroplasty indications in Denmark: patient and prosthesis characteristics.

| Characteristic | 2019 (n = 1,009) | 2020 January (n = 172) | February (n = 154) | March (n = 174) | April (n = 152) | May (n = 175) | June (n = 185) | July (n = 141) | August (n = 150) | September (n = 121) | October (n = 83) | November (n = 88) | December (n = 74) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Age, n (%)** | | | | | | | | | | | | | |
| < 40 | 12 (1.2) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | Masked | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) | < 5 (.) | < 5 (.) |
| 40 to 45 | 9 (0.9) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) | < 5 (.) | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| 45 to 50 | 15 (1.5) | < 5 (.) | 5 (3.2) | 5 (2.9) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) | < 5 (.) |
| 50 to 55 | 38 (3.8) | 11 (6.4) | 6 (3.9) | 6 (3.4) | 5 (3.3) | 5 (2.9) | 7 (3.8) | 5 (3.5) | 5 (3.3) | 0 (0.0) | 0 (0.0) | < 5 (.) | < 5 (.) |
| 55 to 60 | 71 (7.0) | 13 (7.6) | 9 (5.8) | 12 (6.9) | 6 (3.9) | 13 (7.4) | 15 (8.1) | 10 (7.1) | 11 (7.3) | 7 (5.8) | < 5 (.) | 5 (5.7) | < 5 (.) |
| 60 to 65 | Masked | 16 (9.3) | 12 (7.8) | 14 (8.0) | 10 (6.6) | 15 (8.6) | 12 (6.5) | 12 (8.5) | 7 (4.7) | 15 (12.4) | 9 (10.8) | 8 (9.1) | < 5 (.) |
| 65 to 70 | 134 (13.3) | 28 (16.3) | 19 (12.3) | 21 (12.1) | 18 (11.8) | 24 (13.7) | 20 (10.8) | 18 (12.8) | 23 (15.3) | 17 (14.0) | 12 (14.5) | 12 (13.6) | 8 (10.8) |
| 70 to 75 | 155 (15.4) | 21 (12.2) | 28 (18.2) | 21 (12.1) | 19 (12.5) | 23 (13.1) | 28 (15.1) | 25 (17.7) | 17 (11.3) | 17 (14.0) | 8 (9.6) | 12 (13.6) | 13 (17.6) |
| 75 to 80 | 136 (13.5) | 22 (12.8) | 20 (13.0) | 35 (20.1) | 24 (15.8) | 24 (13.7) | 29 (15.7) | 20 (14.2) | 27 (18.0) | 20 (16.5) | 14 (16.9) | 13 (14.8) | 9 (12.2) |
| 80 to 85 | 150 (14.9) | 25 (14.5) | 16 (10.4) | 16 (9.2) | 24 (15.8) | 27 (15.4) | 34 (18.4) | 15 (10.6) | 27 (18.0) | 15 (12.4) | 8 (9.6) | 11 (12.5) | 12 (16.2) |
| 85 to 90 | 103 (10.2) | 16 (9.3) | 22 (14.3) | 19 (10.9) | 17 (11.2) | 18 (10.3) | 14 (7.6) | 18 (12.8) | 18 (12.0) | 17 (14.0) | 12 (14.5) | 13 (14.8) | 10 (13.5) |
| 90 to 95 | Masked | 10 (5.8) | 11 (7.1) | 15 (8.6) | 18 (11.8) | 16 (9.1) | 13 (7.0) | 12 (8.5) | 6 (4.0) | 7 (5.8) | 10 (12.0) | 8 (9.1) | < 5 (.) |
| 95 to 100 | 19 (1.9) | < 5 (.) | < 5 (.) | < 5 (.) | 5 (3.3) | 5 (2.9) | 5 (2.7) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) |
| 100 to 105 | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) | 0 (0.0) | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| ≥ 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Female, n (%) | 620 (61.4) | 105 (61.0) | 93 (60.4) | 100 (57.5) | 101 (66.4) | 107 (61.1) | 115 (62.2) | 93 (66.0) | 97 (64.7) | 77 (63.6) | 52 (62.7) | 59 (67.0) | 46 (62.2) |
| **BMI, n (%)** | | | | | | | | | | | | | |
| Underweight | 57 (5.6) | 6 (3.5) | 13 (8.4) | 20 (11.5) | 10 (6.6) | 14 (8.0) | 9 (4.9) | 15 (10.6) | 10 (6.7) | Masked | Masked | Masked | Masked |
| Normal weight | 498 (49.4) | 80 (46.5) | 78 (50.6) | 90 (51.7) | 76 (50.0) | 90 (51.4) | 104 (56.2) | 59 (41.8) | 78 (52.0) | 63 (52.1) | 43 (51.8) | 42 (47.7) | 34 (45.9) |
| Overweight | 286 (28.3) | 53 (30.8) | 40 (26.0) | 40 (23.0) | 45 (29.6) | 51 (29.1) | 44 (23.8) | 40 (28.4) | 43 (28.7) | 35 (28.9) | 18 (21.7) | 29 (33.0) | 24 (32.4) |
| Obese | 96 (9.5) | 25 (14.5) | 18 (11.7) | 17 (9.8) | 17 (11.2) | 14 (8.0) | 20 (10.8) | 19 (13.5) | 16 (10.7) | 15 (12.4) | 11 (13.3) | 10 (11.4) | 6 (8.1) |
| Morbidly obese | 5 (0.5) | Masked | 0 (0.0) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) | 0 (0.0) | < 5 (.) | 0 (0.0) |
| Missing | 67 (6.6) | < 5 (.) | 5 (3.2) | < 5 (.) | < 5 (.) | < 5 (.) | Masked | Masked | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) |
| **ASA, n (%)** | | | | | | | | | | | | | |
| I | 88 (9.4) | 23 (13.5) | 10 (6.6) | 13 (7.5) | 7 (4.7) | 12 (7.0) | 12 (6.7) | 5 (3.7) | 9 (6.0) | 7 (5.8) | 6 (7.5) | < 5 (.) | < 5 (.) |
| II | 420 (44.8) | 79 (46.2) | 77 (50.7) | 66 (37.9) | 67 (44.7) | 86 (50.0) | 85 (47.2) | 68 (50.4) | 72 (48.3) | 55 (45.5) | 40 (50.0) | 42 (47.7) | 33 (44.6) |
| III-IV | 429 (45.8) | 69 (40.4) | 65 (42.8) | 95 (54.6) | 76 (50.7) | 74 (43.0) | 83 (46.1) | 62 (45.9) | 68 (45.6) | 59 (48.8) | 34 (42.5) | Masked | Masked |
| **Type of hospital, n (%)** | | | | | | | | | | | | | |
| Public | 985 (97.6) | 167 (97.1) | 146 (94.8) | 168 (96.6) | Masked | Masked | Masked | Masked | Masked | Masked | Masked | Masked | Masked |
| Private | 24 (2.4) | 5 (2.9) | 8 (5.2) | 6 (3.4) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) |
| **Fixation, n (%)** | | | | | | | | | | | | | |
| Cemented | 151 (15.0) | 26 (15.1) | 25 (16.2) | 19 (10.9) | 22 (14.5) | Masked | 38 (20.5) | 34 (24.1) | 37 (24.7) | 25 (20.7) | Masked | 12 (13.6) | Masked |
| Uncemented | 318 (31.5) | 54 (31.4) | 55 (35.7) | 56 (32.2) | 38 (25.0) | 42 (24.0) | 51 (27.6) | 31 (22.0) | 39 (26.0) | 34 (28.1) | 27 (32.5) | 16 (18.2) | 23 (31.1) |

| Hybrid | 494 (49.0) | 85 (49.4) | 66 (42.9) | 94 (54.0) | 85 (55.9) | 88 (50.3) | 84 (45.4) | 71 (50.4) | 68 (45.3) | 57 (47.1) | 39 (47.0) | 55 (62.5) | 33 (44.6) |

ASA, American Society of Anesthesiologists.

## Knee arthroplasty

**Table vii.** Elective primary knee arthroplasty for osteoarthritis in the Netherlands: patient and prosthesis characteristics.

| Characteristic | 2019 (n = 29,873) | 2020 January (n = 2,949) | February (n = 2,571) | March (n = 1,448) | April (n = 56) | May (n = 1,038) | June (n = 2,061) | July (n = 2,411) | August (n = 1,910) | September (n = 3,371) | October (n = 2,128) | November (n = 1,689) | December (n = 1,895) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Age, n (%)** | | | | | | | | | | | | | |
| < 40 | 23 (0.1) | 1 (0.0) | 1 (0.0) | - | - | - | 1 (0.0) | 1 (0.0) | 1 (0.1) | 3 (0.1) | 2 (0.1) | 1 (0.1) | 1 (0.1) |
| 40 to 45 | 71 (0.2) | 8 (0.3) | 9 (0.4) | 5 (0.3) | - | 6 (0.6) | 3 (0.1) | 6 (0.2) | 1 (0.1) | 7 (0.2) | 4 (0.2) | 4 (0.2) | 4 (0.2) |
| 45 to 50 | 419 (1.4) | 36 (1.2) | 36 (1.4) | 22 (1.5) | 1 (1.8) | 17 (1.6) | 31 (1.5) | 38 (1.6) | 31 (1.6) | 46 (1.4) | 33 (1.6) | 21 (1.2) | 23 (1.2) |
| 50 to 55 | 1,480 (5.0) | 157 (5.3) | 135 (5.3) | 81 (5.6) | 9 (16.1) | 60 (5.8) | 98 (4.8) | 143 (5.9) | 96 (5.0) | 166 (4.9) | 103 (4.8) | 100 (5.9) | 95 (5.0) |
| 55 to 60 | 3,011 (10.1) | 307 (10.4) | 250 (9.7) | 144 (9.9) | 9 (16.1) | 135 (13.0) | 222 (10.8) | 248 (10.3) | 181 (9.5) | 391 (11.6) | 241 (11.3) | 193 (11.4) | 200 (10.6) |
| 60 to 65 | 4,605 (15.4) | 452 (15.3) | 378 (14.7) | 244 (16.9) | 13 (23.2) | 167 (16.1) | 307 (14.9) | 343 (14.2) | 344 (18.0) | 512 (15.2) | 354 (16.6) | 296 (17.5) | 321 (16.9) |
| 65 to 70 | 5,878 (19.7) | 596 (20.2) | 501 (19.5) | 278 (19.2) | 10 (17.9) | 230 (22.2) | 390 (18.9) | 464 (19.2) | 340 (17.8) | 651 (19.3) | 445 (20.9) | 343 (20.3) | 379 (20.0) |
| 70 to 75 | 6,586 (22.0) | 652 (22.1) | 610 (23.7) | 335 (23.1) | 8 (14.3) | 189 (18.2) | 464 (22.5) | 512 (21.2) | 405 (21.2) | 740 (22.0) | 487 (22.9) | 382 (22.6) | 440 (23.2) |
| 75 to 80 | 4,721 (15.8) | 475 (16.1) | 392 (15.2) | 203 (14.0) | 4 (7.1) | 144 (13.9) | 339 (16.4) | 401 (16.6) | 304 (15.9) | 509 (15.1) | 257 (12.1) | 228 (13.5) | 286 (15.1) |
| 80 to 85 | 2,424 (8.1) | 207 (7.0) | 202 (7.9) | 106 (7.3) | 2 (3.6) | 62 (6.0) | 157 (7.6) | 202 (8.4) | 167 (8.7) | 259 (7.7) | 158 (7.4) | 96 (5.7) | 105 (5.5) |
| 85 to 90 | 588 (2.0) | 54 (1.8) | 52 (2.0) | 25 (1.7) | - | 26 (2.5) | 40 (1.9) | 44 (1.8) | 37 (1.9) | 81 (2.4) | 41 (1.9) | 25 (1.5) | 35 (1.8) |
| 90 to 95 | 59 (0.2) | 4 (0.1) | 4 (0.2) | 5 (0.3) | - | 2 (0.2) | 7 (0.3) | 99 (0.4) | 3 (0.20) | 6 (0.2) | 3 (0.1) | - | 6 (0.3) |
| 95 to 100 | 7 (0.0) | - | 1 (0.0) | - | - | - | 1 (0.0) | - | - | - | - | - | - |
| 100 to 105 | - | - | - | - | - | - | 1 (0.0) | - | - | - | - | - | - |
| ≥ 105 | 1 (0.0) | - | - | - | - | - | - | - | - | - | - | - | - |
| **Female, n (%)** | 18,512 (62.0) | 1,805 (61.2) | 1581 (61.5) | 901 (62.2) | 32 (57.1) | 618 (59.5) | 1,265 (61.4) | 1,493 (61.9) | 1,167 (61.1) | 2,057 (61.0) | 1,224 (57.5) | 961 (56.9) | 1,114 (58.8) |
| **BMI, n (%)** | | | | | | | | | | | | | |
| Underweight | 36 (0.1) | - | 4 (0.2) | 2 (0.1) | - | 5 (0.5) | 2 (0.1) | 1 (0.0) | 5 (0.3) | 3 (0.1) | 3 (0.1) | - | 1 (0.1) |
| Normal weight | 5,051 (16.9) | 493 (16.7) | 434 (16.9) | 246 (17.0) | 13 (23.2) | 168 (16.2) | 348 (16.9) | 429 (17.8) | 347 (18.2) | 597 (17.7) | 420 (19.7) | 328 (19.4) | 372 (19.6) |
| Overweight | 12,467 (41.7) | 1,178 (39.9) | 1047 (40.7) | 595 (41.1) | 25 (44.6) | 436 (42.0) | 833 (40.4) | 977 (40.5) | 780 (40.8) | 1,340 (39.8) | 852 (40.0) | 758 (44.9) | 788 (41.6) |
| Obese | 11,338 (38.0) | 1133 (38.4) | 970 (37.7) | 533 (36.8) | 17 (30.4) | 392 (37.8) | 792 (38.4) | 894 (37.1) | 677 (35.4) | 1,283 (38.1) | 714 (33.6) | 543 (32.1) | 678 (35.8) |
| Morbidly obese | 943 (3.2) | 92 (3.1) | 69 (2.7) | 45 (3.1) | 1 (1.8) | 26 (2.5) | 60 (2.9) | 69 (2.9) | 62 (3.2) | 93 (2.8) | 66 (3.1) | 37 (2.2) | 41 (2.2) |
| Missing | 38 (0.1) | 53 (1.8) | 47 (1.8) | 27 (1.9) | - | 11 (1.1) | 26 (1.3) | 41 (1.7) | 39 (2.0) | 55 (1.6) | 73 (3.4) | 23 (1.4) | 15 (0.8) |
| **ASA, n (%)** | | | | | | | | | | | | | |
| I | 3,568 (11.9) | 327 (11.1) | 301 (11.7) | 187 (12.9) | 11 (19.6) | 155 (14.9) | 239 (11.6) | 286 (11.9) | 246 (12.9) | 455 (13.5) | 287 (13.5) | 270 (16.0) | 302 (15.9) |
| II | 19,369 (64.8) | 1933 (65.5) | 1691 (65.8) | 942 (65.1) | 36 (64.3) | 648 (62.4) | 1,359 (65.9) | 1,544 (64.0) | 1,190 (62.3) | 2,122 (62.9) | 1,400 (65.8) | 1,109 (65.7) | 1,240 (65.4) |
| III-IV | 6,931 (23.2) | 688 (23.3) | 578 (22.5) | 318 (22.0) | 9 (16.1) | 235 (22.6) | 462 (22.4) | 580 (24.1) | 471 (24.7) | 792 (23.5) | 439 (20.6) | 307 (18.2) | 347 (18.3) |
| **Charnley classification, n (%)** | 11,868 (39.7) | 1,145 (38.8) | 952 (37.0) | 574 (39.6) | 27 (48.2) | 448 (43.2) | 815 (39.5) | 924 (38.3) | 742 (38.8) | 1,301 (38.6) | 794 (37.3) | 648 (38.4) | 774 (40.8) |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 17,893 (59.9) | 1,721 (58.4) | 1,542 (60.0) | 838 (84.9) | 28 (50.0) | 554 (53.4) | 1,189 (57.7) | 1,405 (58.3) | 1,092 (57.3) | 1,936 (57.5) | 1,268 (59.6) | 986 (58.4) | 1,044 (55.1) |
| B | 112 (0.4) | | | 31 (2.1) | - | 33 (3.2) | | | 60 (3.1) | 112 (3.3) | | 47 (2.8) | |
| C | - | 70 (2.4) | 65 (2.5) | 5 (0.3) | 1 (1.8) | 3 (0.3) | 53 (2.6) | 68 (2.8) | 16 (0.8) | 22 (0.7) | 52 (2.4) | 8 (0.5) | 63 (3.3) |
| Missing | | 13 (0.4) | 12 (0.5) | | | | 4 (0.2) | 14 (0.6) | | | 14 (0.7) | | 14 (0.7) |
| **Type of hospital, n (%)** | | | | | | | | | | | | | |
| Public | 25,196 (84.3) | 2,480 (84.1) | 2,129 (82.8) | 1,192 (82.3) | 38 (67.9) | 807 (77.7) | 1,635 (79.3) | 1,957 (81.2) | 1,521 (79.6) | 2,809 (83.3) | 1,616 (75.9) | 1,173 (69.4) | 1,330 (70.2) |
| Private | 4,677 (15.7) | 469 (15.9) | 442 (17.2) | 256 (17.7) | 18 (32.1) | 231 (22.3) | 426 (20.7) | 454 (18.8) | 389 (20.4) | 562 (16.7) | 512 (24.1) | 516 (30.6) | 565 (29.8) |
| **Fixation, n (%)** | | | | | | | | | | | | | |
| Cemented | 25,185 (84.4) | 2,494 (84.6) | 2,199 (85.6) | 1,200 (82.9) | 53 (94.6) | 845 (81.4) | 1,716 (83.2) | 1,995 (82.8) | 1,600 (83.8) | 2,765 (82.0) | 1,738 (81.7) | 1,334 (79.0) | 1,497 (79.0) |
| Uncemented | 3,722 (12.5) | 376 (12.8) | 315 (12.3) | 197 (13.6) | 2 (3.6) | 156 (15.0) | 278 (13.5) | 350 (14.5) | 259 (13.6) | 485 (14.4) | 324 (15.2) | 297 (17.6) | 330 (17.4) |
| Hybrid | 966 (3.1) | 79 (2.6) | 57 (5.1) | 49 (3.5) | 1 (1.8) | 37 (3.6) | 67 (3.3) | 66 (2.7) | 49 (2.7) | 119 (3.6) | 66 (3.1) | 58 (3.4) | 68 (3.6) |
| **Mean EQ-5D (SD)** | 0.568 (0.183) | 0.577 (0.179) | 0.586 (0.179) | 0.574 (0.188) | 0.537 (0.173) | 0.545 (0.199) | 0.560 (0.185) | 0.563 (0.191) | 0.550 (0.200) | 0.564 (0.194) | 0.569 (0.203) | 0.566 (0.219) | 0.564 (0.218) |

ASA, American Society of Anesthesiologists; EQ-5D; EuroQoL five-dimension questionnaire; SD, standard deviation.

Table viii. Elective primary knee arthroplasty for osteoarthritis in Denmark: patient and prosthesis characteristics.

| Characteristic | 2019 (n = 8,732) | 2020 January (n = 1,426) | February (n = 1,326) | March (n = 1,455) | April (n = 986) | May (n = 1,272) | June (n = 1,345) | July (n = 454) | August (n = 919) | September (n = 1,275) | October (n = 871) | November (n = 1,035) | December (n = 652) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Age, n (%)** | | | | | | | | | | | | | |
| < 40 | 5 (0.1) | 0 (0.0) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) | 0 (0.0) | < 5 (.) | 0 (0.0) | 0 (0.0) | < 5 (.) |
| 40 to 45 | 40 (0.5) | < 5 (.) | < 5 (.) | 9 (0.6) | < 5 (.) | Masked | 7 (0.5) | < 5 (.) | < 5 (.) | Masked | < 5 (.) | < 5 (.) | < 5 (.) |
| 45 to 50 | 135 (1.5) | 25 (1.8) | 14 (1.1) | 30 (2.1) | 25 (2.5) | 17 (1.3) | 26 (1.9) | 6 (1.3) | 15 (1.6) | 18 (1.4) | 13 (1.5) | 17 (1.6) | 14 (2.1) |
| 50 to 55 | 429 (4.9) | 89 (6.2) | 69 (5.2) | 90 (6.2) | 69 (7.0) | 76 (6.0) | 64 (4.8) | 16 (3.5) | 53 (5.8) | 70 (5.5) | 51 (5.9) | 56 (5.4) | 41 (6.3) |
| 55 to 60 | 837 (9.6) | 147 (10.3) | 168 (12.7) | 149 (10.2) | 115 (11.7) | 146 (11.5) | 157 (11.7) | 55 (12.1) | 91 (9.9) | 126 (9.9) | 70 (8.0) | 105 (10.1) | 79 (12.1) |
| 60 to 65 | 1,221 (14.0) | 215 (15.1) | 191 (14.4) | 209 (14.4) | 150 (15.2) | 186 (14.6) | 180 (13.4) | 79 (17.4) | 126 (13.7) | 169 (13.3) | 136 (15.6) | 157 (15.2) | 94 (14.4) |
| 65 to 70 | 1,446 (16.6) | 251 (17.6) | 221 (16.7) | 257 (17.7) | 147 (14.9) | 215 (16.9) | 204 (15.2) | 73 (16.1) | 160 (17.4) | 212 (16.6) | 121 (13.9) | 179 (17.3) | 109 (16.7) |
| 70 to 75 | 2,057 (23.6) | 310 (21.7) | 295 (22.2) | 315 (21.6) | 199 (20.2) | 236 (18.6) | 295 (21.9) | 95 (20.9) | 195 (21.2) | 267 (20.9) | 196 (22.5) | 238 (23.0) | 129 (19.8) |
| 75 to 80 | 1,544 (17.7) | 242 (17.0) | 217 (16.4) | 234 (16.1) | 170 (17.2) | 234 (18.4) | 238 (17.7) | 70 (15.4) | 160 (17.4) | 226 (17.7) | 175 (20.1) | 174 (16.8) | 111 (17.0) |
| 80 to 85 | 786 (9.0) | 112 (7.9) | 112 (8.4) | 124 (8.5) | 89 (9.0) | 115 (9.0) | 129 (9.6) | 44 (9.7) | 83 (9.0) | 133 (10.4) | 77 (8.8) | 85 (8.2) | 56 (8.6) |
| 85 to 90 | 201 (2.3) | 30 (2.1) | 31 (2.3) | 34 (2.3) | 18 (1.8) | 29 (2.3) | 40 (3.0) | 14 (3.1) | 29 (3.2) | 40 (3.1) | 24 (2.8) | 20 (1.9) | 15 (2.3) |
| 90 to 95 | 31 (0.4) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | 8 (0.6) | < 5 (.) | Masked | < 5 (.) | 7 (0.5) | < 5 (.) | < 5 (.) | < 5 (.) |
| 95 to 100 | 0 (0.0) | 0 (0.0) | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | < 5 (.) | 0 (0.0) |
| 100 to 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ≥ 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Female, n (%) | 5,067 (58.0) | 831 (58.3) | 763 (57.5) | 852 (58.6) | 578 (58.6) | 755 (59.4) | 775 (57.6) | 249 (54.8) | 534 (58.1) | 778 (61.0) | 470 (54.0) | 589 (56.9) | 352 (54.0) |
| **BMI, n (%)** | | | | | | | | | | | | | |
| Underweight | 22 (0.3) | Masked | 6 (0.5) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (%) | < 5 (.) |
| Normal weight | 1,573 (18.0) | 263 (18.4) | 240 (18.1) | 254 (17.5) | 154 (15.6) | 205 (16.1) | 210 (15.6) | 85 (18.7) | 160 (17.4) | 244 (19.1) | 182 (20.9) | 188 (18.2) | 124 (19.0) |
| Overweight | 3,335 (38.2) | 584 (41.0) | 516 (38.9) | 555 (38.1) | 370 (37.5) | 517 (40.6) | 483 (35.9) | 168 (37.0) | 352 (38.3) | 474 (37.2) | 310 (35.6) | 388 (37.5) | 244 (37.4) |
| Obese | 3,287 (37.6) | 513 (36.0) | 506 (38.2) | 555 (38.1) | 394 (40.0) | 474 (37.3) | 558 (41.5) | 185 (40.7) | 351 (38.2) | 494 (38.7) | 329 (37.8) | 397 (38.4) | 243 (37.3) |
| Morbidly obese | 499 (5.7) | 58 (4.1) | 58 (4.4) | 86 (5.9) | Masked | Masked | Masked | 16 (3.5) | 54 (5.9) | Masked | Masked | 59 (5.7) | Masked |
| Missing | 16 (0.2) | < 5 (.) | 0 (0.0) | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | < 5 (.) | 0 (0.0) | 0 (0.0) | < 5 (.) | 0 (0.0) |
| **Charnley classification, n (%)** | | | | | | | | | | | | | |
| A | 3,504 (40.1) | 580 (40.7) | 524 (39.5) | 632 (43.4) | 382 (38.7) | 533 (41.9) | 545 (40.5) | 200 (44.1) | 426 (46.4) | 545 (42.7) | 349 (40.1) | 433 (41.8) | 273 (41.9) |
| B | 2,108 (24.1) | 352 (24.7) | 343 (25.9) | 358 (24.6) | 253 (25.7) | 299 (23.5) | 318 (23.6) | 86 (18.9) | 203 (22.1) | 319 (25.0) | 222 (25.5) | 252 (24.3) | 153 (23.5) |
| C | 3,096 (35.5) | Masked | 459 (34.6) | 465 (32.0) | Masked | 440 (34.6) | 482 (35.8) | 168 (37.0) | 290 (31.6) | 411 (32.2) | 300 (34.4) | 350 (33.8) | 226 (34.7) |
| Missing | 24 (0.3) | < 5 (.) | 0 (0.0) | 0 (0.0) | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| **Type of hospital, n (%)** | | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Public<br>Private | 7,686 (88.0)<br>1,046 (12.0) | 1,083 (75.9)<br>343 (24.1) | 1,014 (76.5)<br>312 (23.5) | 1.104 (75.9)<br>351 (24.1) | 779 (79.0)<br>207 (21.0) | 1,055 (82.9)<br>217 (17.1) | 1,110 (82.5)<br>235 (17.5) | 287 (63.2)<br>167 (36.8) | 618 (67.2)<br>301 (32.8) | 1,035 (81.2)<br>240 (18.8) | 691 (79.3)<br>180 (20.7) | 835 (80.7)<br>200 (19.3) | 476 (73.0)<br>176 (27.0) |
| **Fixation, n (%)**<br>Cemented<br>Uncemented<br>Hybrid<br>Other/unknown | 4,395 (50.3)<br>2,382 (27.3)<br>1,842 (21.1)<br>113 (1.3) | 723 (50.7)<br>433 (30.4)<br>250 (17.5)<br>20 (1.4) | 660 (49.8)<br>389 (29.3)<br>264 (19.9)<br>13 (1.0) | 657 (45.2)<br>510 (35.1)<br>269 (18.5)<br>19 (1.3) | 477 (48.4)<br>337 (34.2)<br>157 (15.9)<br>15 (1.5) | 611 (48.0)<br>422 (33.2)<br>224 (17.6)<br>15 (1.2) | 652 (48.5)<br>431 (32.0)<br>236 (17.5)<br>26 (1.9) | 223 (49.1)<br>128 (28.2)<br>94 (20.7)<br>9 (2.0) | 412 (44.8)<br>279 (30.4)<br>209 (22.7)<br>19 (2.1) | 625 (49.0)<br>356 (27.9)<br>269 (21.1)<br>25 (2.0) | 434 (49.8)<br>271 (31.1)<br>152 (17.5)<br>14 (1.6) | 502 (48.5)<br>359 (34.7)<br>162 (15.7)<br>12 (1.2) | 300 (46.0)<br>215 (33.0)<br>127 (19.5)<br>10 (1.5) |

**Table ix.** Elective primary knee arthroplasty for other elective indications in the Netherlands: patient and prosthesis characteristics.

| Characteristic | 2019 (n = 582) | 2020 January (n = 54) | February (n = 54) | March (n = 24) | April (n = 5) | May (n = 29) | June (n = 53) | July (n = 60) | August (n = 42) | September (n = 59) | October (n = 31) | November (n = 34) | December (n = 31) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Age, n (%)** | | | | | | | | | | | | | |
| < 40 | 12 (2.1) | - | 1 (1.9) | 1 (4.2) | - | 1 (3.4) | 3 (5.7) | - | 1 (2.4) | 4 (6.8) | 1 (3.2) | - | - |
| 40 to 45 | 8 (1.4) | - | - | - | - | 1 (3.4) | 1 (1.9) | 1 (1.7) | - | - | - | - | - |
| 45 to 50 | 19 (3.3) | 1 (1.9) | - | - | - | - | 2 (3.8) | 3 (5.0) | 2 (4.8) | 1 (1.7) | - | - | - |
| 50 to 55 | 51 (8.8) | 3 (5.6) | 2 (3.7) | 3 (12.5) | - | - | 3 (5.7) | 4 (6.7) | 4 (9.5) | 7 (11.9) | 1 (3.2) | 4 (11.8) | - |
| 55 to 60 | 65 (11.2) | 4 (7.4) | 6 (11.1) | 3 (12.5) | - | 6 (20.7) | 4 (7.5) | 10 (16.7) | 4 (9.5) | 11 (18.6) | 3 (9.7) | 6 (17.6) | 5 (16.1) |
| 60 to 65 | 89 (15.3) | 8 (14.8) | 11 (20.4) | 7 (29.2) | 1 (20.0) | - | 11 (20.8) | 11 (18.3) | 6 (14.3) | 12 (20.3) | 9 (29.0) | 6 (17.6) | 4 (12.9) |
| 65 to 70 | 94 (16.2) | 13 (24.1) | 10 (18.5) | 2 (8.3) | 2 (40.0) | 8 (27.6) | 9 (17.0) | 10 (16.7) | 7 (16.7) | 4 (6.8) | 5 (16.1) | 6 (17.6) | 8 (25.8) |
| 70 to 75 | 107 (18.4) | 8 (14.8) | 15 (27.8) | 4 (16.7) | 1 (20.0) | 2 (6.6) | 10 (18.9) | 13 (21.7) | 8 (19.0) | 12 (20.3) | 3 (9.7) | 5 (14.7) | 7 (22.6) |
| 75 to 80 | 82 (14.1) | 9 (16.7) | 4 (7.4) | 1 (4.2) | - | 5 (17.2) | 8 (15.1) | 6 (10.0) | 5 (11.9) | 6 (10.2) | 4 (12.9) | 4 (11.8) | 3 (9.7) |
| 80 to 85 | 37 (6.4) | 4 (7.4) | 5 (9.3) | 2 (8.3) | 1 (20.0) | 5 (17.2) | 2 (3.8) | 1 (1.7) | 5 (11.9) | 2 (3.4) | 4 (12.9) | 2 (5.9) | 3 (9.7) |
| 85 to 90 | 17 (2.9) | 4 (7.4) | - | 1 (4.2) | - | 1 (3.4) | - | 1 (1.7) | - | - | 1 (3.2) | 1 (2.9) | 1 (3.2) |
| 90 to 95 | 1 (0.2) | - | - | - | - | - | - | - | - | - | - | - | - |
| 95 to 100 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 to 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ≥ 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Female, yes (%) | 408 (70.1) | 37 (68.5) | 40 (74.1) | 17 (70.8) | 4 (80.0) | 15 (51.7) | 34 (64.2) | 44 (73.3) | 34 (81.0) | 44 (74.6) | 15 (48.4) | 21 (61.8) | 22 (71.0) |
| **BMI, n (%)** | | | | | | | | | | | | | |
| Underweight | 5 (0.9) | - | - | - | - | - | - | 1 (1.7) | - | - | - | - | - |
| Normal weight | 132 (22.7) | 13 (24.1) | 11 (20.4) | 1 (4.2) | - | 8 (27.6) | 11 (20.8) | 16 (26.7) | 9 (21.4) | 9 (15.3) | 7 (22.6) | 7 (20.6) | 11 (35.5) |
| Overweight | 230 (39.5) | 21 (38.9) | 20 (37.0) | 10 (41.7) | 3 (60.0) | 14 (48.3) | 21 (39.6) | 17 (28.3) | 17 (40.5) | 30 (50.8) | 12 (38.7) | 14 (41.2) | 12 (38.7) |
| Obese | 201 (34.5) | 19 (35.2) | 17 (31.5) | 10 (41.7) | 2 (40.0) | 5 (17.2) | 15 (28.3) | 22 (36.7) | 15 (35.7) | 17 (28.8) | 9 (29.0) | 12 (35.3) | 7 (22.6) |
| Morbidly obese | 12 (2.1) | - | 3 (5.6) | 1 (4.2) | - | 2 (6.9) | 3 (5.7) | 2 (3.3) | 1 (2.4) | 3 (5.1) | 1 (3.2) | - | - |
| Missing | 2 (0.3) | 1 (1.9) | 3 (5.6) | 2 (8.3) | - | - | 3 (5.7) | 2 (3.3) | - | - | 2 (6.5) | 1 (2.9) | 1 (3.2) |
| **ASA, n (%)** | | | | | | | | | | | | | |
| I | 35 (6.0) | 1 (1.9) | 1 (1.9) | 2 (8.3) | - | 3 (10.3) | 4 (7.5) | 2 (3.3) | 4 (9.5) | 3 (5.1) | - | 1 (2.9) | - |
| II | 354 (60.8) | 32 (59.3) | 34 (63.0) | 13 (54.2) | 4 (80.0) | 18 (62.1) | 37 (69.8) | 34 (56.7) | 28 (66.7) | 39 (66.1) | 24 (77.4) | 20 (58.8) | 25 (80.6) |
| III-IV | 193 (33.2) | 21 (38.9) | 19 (35.2) | 9 (37.5) | 1 (20.0) | 8 (27.6) | 12 (22.6) | 24 (40.0) | 10 (23.8) | 17 (28.8) | 7 (22.6) | 13 (38.2) | 6 (19.4) |
| **Type of hospital, n (%)** | | | | | | | | | | | | | |
| Public | 540 (92.8) | 51 (94.4) | 51 (94.4) | 23 (95.8) | 3 (60.0) | 27 (93.1) | 49 (92.5) | 58 (96.7) | 37 (88.1) | 56 (94.9) | 24 (77.4) | 31 (91.2) | 29 (93.5) |
| | 42 (7.2) | 3 (5.6) | 3 (5.6) | 1 (4.2) | 2 (40.0) | 2 (6.9) | 4 (7.5) | 2 (3.3) | 5 (11.9) | 3 (5.1) | 7 (22.6) | 3 (8.8) | 2 (6.5) |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Private | | | | | 2 (6.9) | | | | | | | | |
| **Fixation, n (%)** Cemented Uncemented Hybrid | 520 (89.3) 40 (6.9) 19 (3.3) | 46 (85.2) 6 (11.1) 2 (3.7) | 48 (88.9) 5 (9.3) 1 (1.9) | 23 (95.8) 1 (4.2) - | 4 (80.0) 1 (20.0) - | 25 (86.2) 2 (6.9) 2 (6.9) | 51 (96.2) 2 (3.8) - | 56 (93.3) 3 (5.0) 1 (1.7) | 34 (81.0) 6 (14.3) 2 (4.8) | 52 (88.1) 6 (10.2) 1 (1.7) | 27 (87.1) 4 (12.9) - | 29 (85.3) 3 (8.8) 2 (5.9) | 28 (90.3) 2 (6.5) 1 (3.2) |
| **Mean EQ-5D (SD)** | 0.422 (0.217) | - | 0.259 | - | - | - | - | - | - | - | - | - | - | - |

ASA, American Society of Anesthesiologists; EQ-5D, EuroQoL five-dimension questionnaire; SD, standard deviation.

Table x. Elective primary knee arthroplasty for other elective indications in Denmark: patient and prosthesis characteristics.

| Characteristic | 2019 (n = 1,235) | 2020 January (n = 205) | February (n = 179) | March (n = 207) | April (n = 143) | May (n = 232) | June (n = 199) | July (n = 61) | August (n = 119) | September (n = 186) | October (n = 117) | November (n = 167) | December (n = 110) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Age, n (%)** | | | | | | | | | | | | | |
| < 40 | 23 (1.9) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | 6 (2.6) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) |
| 40 to 45 | 30 (2.4) | < 5 (.) | < 5 (.) | 6 (2.9) | < 5 (.) | < 5 (.) | 5 (2.5) | < 5 (.) | < 5 (.) | 6 (3.2) | 0 (0.0) | < 5 (.) | < 5 (.) |
| 45 to 50 | 71 (5.7) | 16 (7.8) | 13 (7.3) | 5 (2.4) | 10 (7.0) | 12 (5.2) | Masked | < 5 (.) | 10 (8.4) | 10 (5.4) | 7 (6.0) | 6 (3.6) | 7 (6.4) |
| 50 to 55 | 162 (13.1) | 24 (11.7) | 32 (17.9) | 23 (11.1) | 19 (13.3) | 24 (10.3) | 30 (15.1) | 10 (16.4) | 12 (10.1) | 17 (9.1) | 10 (8.5) | 13 (7.8) | 15 (13.6) |
| 55 to 60 | 219 (17.7) | 32 (15.6) | 36 (20.1) | 37 (17.9) | 24 (16.8) | 45 (19.4) | 34 (17.1) | 9 (14.8) | 20 (16.8) | 20 (10.8) | 19 (16.2) | 27 (16.2) | 23 (20.9) |
| 60 to 65 | 203 (16.4) | 42 (20.5) | 25 (14.0) | 38 (18.4) | 29 (20.3) | 46 (19.8) | 35 (17.6) | 12 (19.7) | 25 (21.0) | 53 (28.5) | 23 (19.7) | 47 (28.1) | 17 (15.5) |
| 65 to 70 | 185 (15.0) | 34 (16.6) | 25 (14.0) | 40 (19.3) | 23 (16.1) | 33 (14.2) | 22 (11.1) | 9 (14.8) | 20 (16.8) | 28 (15.1) | 21 (17.9) | 25 (15.0) | 18 (16.4) |
| 70 to 75 | 181 (14.7) | 27 (13.2) | 21 (11.7) | 25 (12.1) | 19 (13.3) | 32 (13.8) | 32 (16.1) | 6 (9.8) | 15 (12.6) | 27 (14.5) | 23 (19.7) | 26 (15.6) | 11 (10.0) |
| 75 to 80 | 110 (8.9) | 14 (6.8) | 14 (7.8) | 16 (7.7) | 10 (7.0) | 21 (9.1) | 17 (8.5) | < 5 (.) | 11 (9.2) | 14 (7.5) | 10 (8.5) | 10 (6.0) | 9 (8.2) |
| 80 to 85 | 41 (3.3) | 8 (3.9) | 8 (4.5) | 12 (5.8) | 5 (3.5) | 6 (2.6) | 10 (5.0) | 5 (8.2) | < 5 (.) | 6 (3.2) | < 5 (.) | 8 (4.8) | < 5 (.) |
| 85 to 90 | Masked | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) |
| 90 to 95 | < 5 (.) | 0 (0.0) | 0 (0.0) | < 5 (.) | 0 (0.0) | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| 95 to 100 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 to 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ≥ 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Female, n (%) | 578 (46.8) | 85 (41.5) | 85 (47.5) | 106 (51.2) | 61 (42.7) | 111 (47.8) | 86 (43.2) | 28 (45.9) | 56 (47.1) | 99 (53.2) | 49 (41.9) | 81 (48.5) | 43 (39.1) |
| **BMI, n (%)** | | | | | | | | | | | | | |
| Underweight | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) | 0 (0.0) | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) | < 5 (.) | 0 (0.0) |
| Normal weight | 240 (19.4) | 46 (22.4) | 31 (17.3) | 53 (25.6) | Masked | 49 (21.1) | 44 (22.1) | 14 (23.0) | 24 (20.2) | 46 (24.7) | 17 (14.5) | 42 (25.1) | Masked |
| Overweight | 515 (41.7) | 76 (37.1) | 72 (40.2) | 80 (38.6) | 57 (39.9) | 95 (40.9) | 70 (35.2) | 20 (32.8) | 51 (42.9) | 79 (42.5) | 61 (52.1) | 74 (44.3) | 49 (44.5) |
| Obese | 424 (34.3) | 79 (38.5) | 70 (39.1) | 66 (31.9) | 50 (35.0) | 76 (32.8) | 76 (38.2) | 23 (37.7) | 32 (26.9) | 53 (28.5) | 32 (27.4) | 49 (29.3) | 33 (30.0) |
| Morbidly obese | 52 (4.2) | < 5 (.) | Masked | Masked | < 5 (.) | Masked | 9 (4.5) | < 5 (.) | Masked | 8 (4.3) | Masked | < 5 (.) | < 5 (.) |
| Missing | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| **Type of hospital, n (%)** | | | | | | | | | | | | | |
| Public | 1,080 (87.4) | 152 (74.1) | 126 (70.4) | 155 (74.9) | 105 (73.4) | 192 (82.8) | 161 (80.9) | 40 (65.6) | 86 (72.3) | 153 (82.3) | 92 (78.6) | 130 (77.8) | 85 977.3) |
| Private | 155 (12.6) | 53 (25.9) | 53 (29.6) | 52 (25.1) | 38 (26.6) | 40 (17.2) | 38 (19.1) | 21 (34.4) | 33 (27.7) | 33 (17.7) | 25 (21.4) | 37 (22.2) | 25 (22.7) |
| **Fixation, n (%)** | | | | | | | | | | | | | |
| Cemented | 732 (59.3) | | 90 (50.3) | | 74 (51.7) | 130 (56.0) | | 29 (47.5) | 57 (47.9) | | 60 (51.3) | 92 (55.1) | 65 (59.1) |

| | 2019 | 2020 January | February | March | April | May | June | July | August | September | October | November | December |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Uncemented Hybrid Other/Unknown n | 262 (21.2) 224 (18.1) 17 (1.4) | 112 (54.6) 49 (23.9) 39 (19.0) 5 (2.4) | 51 (28.5) Masked < 5 (.) | 107 (51.7) 56 (27.1) Masked < 5 (.) | 42 (29.4) Masked < 5 (.) | 60 (25.9) Masked < 5 (.) | 119 (59.8) 44 (22.1) 36 (18.1) 0 (0.0) | 22 (36.1) 10 (16.4) 0 (0.0) | 33 (27.7) Masked < 5 (.) | 109 (58.6) 44 (23.7) 28 (15.1) 5 (2.7) | 36 (30.8) Masked < 5 (.) | 48 (28.7) Masked < 5 (.) | 33 (30.0) Masked < 5 (.) |

**Table xi.** Acute primary knee arthroplasty indications in the Netherlands: patient and prosthesis characteristics.

| Characteristic | 2019 (n = 436) | 2020 January (n = 40) | February (n = 46) | March (n = 24) | April (n = 6) | May (n = 22) | June (n = 32) | July (n = 33) | August (n = 23) | September (n = 38) | October (n = 35) | November (n = 31) | December (n = 24) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Age, n (%)** | | | | | | | | | | | | | |
| < 40 | 12 (2.8) | 1 (2.5) | - | 1 (4.2) | - | 2 (9.1) | 1 (3.1) | 2 (6.1) | - | 2 (5.3) | 1 (2.9) | 3 (9.7) | - |
| 40 to 45 | 12 (2.8) | 5 (12.5) | - | - | - | - | 1 (3.1) | 1 (3.0) | - | 1 (2.6) | 1 (2.9) | 1 (3.2) | - |
| 45 to 50 | 17 (3.9) | 2 (5.0) | 5 (10.9) | 1 (4.2) | - | 1 (4.5) | 2 (6.3) | - | 2 (8.7) | 2 (5.3) | 3 (8.6) | 3 (9.7) | - |
| 50 to 55 | 49 (11.2) | 2 (5.0) | 2 (4.3) | 2 (8.3) | 1 (16.7) | 4 (18.2) | 3 (9.4) | 3 (9.1) | 7 (30.4) | 6 (15.8) | 2 (5.7) | 4 (12.9) | 5 (20.8) |
| 55 to 60 | 69 (15.8) | 5 (12.5) | 11 (23.9) | 7 (29.2) | - | 5 (22.7) | 6 (18.8) | 5 (15.2) | 3 (13.0) | 7 (18.4) | 3 (8.6) | 3 (9.7) | 6 (25.0) |
| 60 to 65 | 80 (18.3) | 9 (22.5) | 5 (10.9) | - | 3 (50.0) | 6 (27.3) | 5 (15.6) | 6 (18.2) | 4 (17.4) | 6 (15.8) | 11 (31.4) | 7 (22.6) | 5 (20.8) |
| 65 to 70 | 77 (17.7) | 6 (15.0) | 8 (17.4) | 6 (25.0) | 1 (16.7) | - | 4 (12.5) | 7 (21.2) | 1 (4.3) | 10 (26.3) | 4 (11.4) | 4 (12.9) | 2 (8.3) |
| 70 to 75 | 66 (15.1) | 7 (17.5) | 5 (10.9) | 5 (20.8) | - | 3 (13.6) | 2 (15.6) | 5 (15.2) | 3 (13.0) | 2 (5.3) | 7 (20.0) | 2 (6.5) | 3 (12.5) |
| 75 to 80 | 31 (7.1) | 3 (7.5) | 8 (17.4) | 2 (8.3) | 1 (16.7) | 1 (4.5) | 3 (9.4) | 1 (3.0) | 3 (13.0) | 2 (5.3) | 2 (5.7) | 1 (3.2) | 1 (4.2) |
| 80 to 85 | 16 (3.7) | - | 1 (2.2) | - | - | - | 2 (6.3) | 2 (6.1) | - | - | 1 (2.9) | 1 (3.2) | 2 (8.3) |
| 85 to 90 | 7 (1.6) | - | 1 (2.2) | - | - | - | - | 1 (3.0) | - | - | - | 2 (6.5) | - |
| 90 to 95 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 95 to 100 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 to 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ≥ 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Female, n (%) | 257 (58.9) | 25 (62.5) | 26 (56.5) | 13 (54.2) | 4 (66.7) | 11 (50.0) | 23 (71.9) | 21 (63.6) | 17 (73.9) | 27 (71.1) | 22 (62.9) | 19 (61.3) | 6 (25.0) |
| **BMI, n (%)** Underweight Normal weight Overweight Obese | 2 (0.5) 119 (27.3) 175 (40.1) 122 (28.0) 16 (3.7) | - 11 (27.5) 13 (32.5) 16 (40.0) - | - 12 (26.1) 22 (47.8) 10 (21.7) 2 (4.3) | 3 (12.5) 3 (12.5) 8 (33.3) 7 (29.2) 2 (8.3) | - 1 (16.7) 3 (50.0) 1 (16.7) 1 (16.7) | - 7 (31.8) 10 (45.5) 5 (22.7) - | - 5 (15.6) 15 (46.9) - | 1 (3.0) 10 (30.3) 13 (39.4) 8 (24.2) 1 (3.0) | - 7 (30.4) 9 (39.1) 7 (30.4) - | - 7 (18.4) 13 (34.2) 16 (42.1) - | 2 (5.7) 9 (25.7) 7 (20.0) 11 (31.40 3 (8.6) | 1 (3.2) 7 (22.6) 14 (45.2) 8 (25.8) 1 (3.2) | - 7 (29.2) 9 (37.5) 8 (33.3) - |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Morbidly obese<br>Missing | 2 (0.5) | - | - | 1 (4.2) | - | - | 10 (31.3)<br>2 (6.3)<br>- | - | - | 2 (5.3) | 3 (8.6) | - | - |
| **ASA, n (%)**<br>I<br>II<br>III-IV | 78 (17.9)<br>282 (64.7)<br>76 (17.4) | 4 (10.0)<br>34 (85.0)<br>2 (5.0) | 12 (26.1)<br>21 (45.7)<br>13 (28.3) | 4 (16.7)<br>12 (50.0)<br>8 (33.3) | -<br>5 (83.3)<br>1 (16.7) | 5 (22.7)<br>13 (59.1)<br>4 (18.4) | 8 (25.0)<br>14 (43.8)<br>10 (31.3) | 5 (15.2)<br>19 (57.6)<br>9 (27.3) | 6 (26.1)<br>14 (60.9)<br>2 (8.7) | 5 (13.2)<br>29 (76.3)<br>4 (10.5) | 4 (11.4)<br>27 (77.1)<br>4 (11.4) | 7 (22.6)<br>19 (61.3)<br>5 (16.1) | 6 (25.0)<br>15 (62.5)<br>3 (12.5) |
| **Type of hospital, n (%)**<br>Public<br>Private | 382 (87.6)<br>54 (12.4) | 35 (87.5)<br>5 (12.5) | 36 (78.3)<br>10 (21.7) | 20 (83.3)<br>4 (16.7) | 6 (100.0)<br>- | 21 (95.5)<br>1 (4.5) | 26 (81.3)<br>6 (18.8) | 27 (81.8)<br>6 (18.2) | 18 (78.3)<br>5 (21.7) | 29 (76.3)<br>9 (23.7) | 28 (80.0)<br>7 (20.0) | 25 (80.6)<br>3 (9.7) | 16 (66.7)<br>8 (33.3) |
| **Fixation, n (%)**<br>Cemented<br>Uncemented<br>Hybrid | 369 (84.6)<br>32 (7.3)<br>29 (6.7) | 36 (90.0)<br>2 (5.0)<br>1 (2.5) | 40 (87.0)<br>3 (6.5)<br>3 (6.5) | 20 (83.3)<br>2 (8.3)<br>2 (8.3) | 6 (100.0)<br>-<br>- | 18 (81.8)<br>3 (13.6)<br>1 (4.5) | 31 (96.9)<br>1 (3.1)<br>- | 26 (78.8)<br>2 (6.1)<br>4 (12.1) | 22 (95.7)<br>-<br>1 (4.3) | 33 (86.8)<br>2 (5.3)<br>3 (7.9) | 31 (88.6)<br>3 (8.6)<br>1 (2.9) | 28 (90.3)<br>-<br>3 (9.7) | 20 (83.3)<br>1 (4.2)<br>2 (8.3) |
| **Mean EQ-5D (SD)** | 0.663 | 0.744 | - | - | - | - | - | - | - | - | - | - | - |

ASA, American Society of Anesthesiologists; EQ-5D; EuroQoL five-dimension questionnaire; SD, standard deviation.

Table xii. Acute primary knee arthroplasty indications in Denmark: patient and prosthesis characteristics.

| Characteristic | 2019 (n = 90) | 2020 January (n = 9) | February (n = 18) | March (n = 13) | April (n = 12) | May (n = 19) | June (n = 11) | July (n = 6) | August (n = 11) | September (n = 18) | October (n = 9) | November (n = 8) | December (n = 5) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Age, n (%)** | | | | | | | | | | | | | |
| < 40 | 0 (0.0) | < 5 (.) | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | < 5 (.) | 0 (0.0) | 0 (0.0) | < 5 (.) |
| 40 to 45 | 5 (5.6) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 40 (0.45) | 0 (0.0) |
| 45 to 50 | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) | 0 (0.0) | < 5 (.) | 0 (0.0) | 0 (0.50) | 0 (0.0) |
| 50 to 55 | 8 (8.9) | < 5 (.) | 0 (0.0) | 0 (0.0) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) | 0 (0.0) | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| 55 to 60 | 12 (13.3) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) | < 5 (.) |
| 60 to 65 | 15 (16.7) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.05) | < 5 (.) |
| 65 to 70 | 12 (13.3) | 0 (0.0) | < 5 (.) | < 5 (.) | 0 (0.0) | 0 (0.0) | < 5 (.) | 0 (0.0) | 5 (45.5) | 0 (0.0) | < 5 (.) | < 5 (.) | 0 (0.0) |
| 70 to 75 | 13 (14.4) | < 5 (.) | 6 (33.3) | 5 (38.5) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | 5 (27.8) | < 5 (.) | 0 (0.0) | < 5 (.) |
| 75 to 80 | 15 (16.7) | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) | < 5 (.) |
| 80 to 85 | 5 (5.6) | 0 (0.0) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) | 0 (0.0) | < 5 (.) | 0 (0.8) | 0 (0.0) |
| 85 to 90 | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| 90 to 95 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 95 to 100 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 to 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ≥ 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Female, n (%) | 49 (54.4) | Masked | 10 (55.6) | 7 (53.8) | Masked | 10 (52.6) | Masked | Masked | Masked | 10 (55.6) | Masked | <5 (.) | <5 (.) |
| **BMI, n (%)** | | | | | | | | | | | | | |
| Underweight | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| Normal weight | 21 (23.3) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | 8 (42.1) | < 5 (.) | < 5 (.) | 5 (45.5) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) |
| Overweight | 39 (43.3) | 5 (55.6) | 9 (50.0) | < 5 (.) | 5 (41.7) | < 5 (.) | 5 (45.5) | < 5 (.) | < 5 (.) | 7 (38.9) | < 5 (.) | 0 (0.0) | < 5 (.) |
| Obese | 26 (28.9) | < 5 (.) | 5 (27.8) | < 5 (.) | Masked | 6 (31.6) | < 5 (.) | < 5 (.) | < 5 (.) | 7 (38.9) | < 5 (.) | < 5 (.) | < 5 (.) |
| Morbidly obese | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | 0 (0.0) | < 5 (.) | < 5 (.) | 0 (0.0) | 0 (0.0) | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| Missing | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Type of hospital, n (%)** | | | | | | | | | | | | | |
| Public | 82 (91.1) | Masked | 13 (72.2) | Masked | 7 (58.3) | Masked | Masked | < 5 (.) | Masked | Masked | Masked | Masked | < 5 (.) |
| Private | 8 (8.9) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) |
| **Fixation, n (%)** | | | | | | | | | | | | | |
| Cemented | 58 (64.4) | Masked | 10 (55.6) | 10 (76.9) | 7 (58.3) | 12 (63.2) | Masked | < 5 (.) | 5 (45.5) | 11 (61.1) | 6 (66.7) | < 5 (.) | < 5 (.) |
| Uncemented | 12 (13.3) | 0 (0.0) | < 5 (.) | < 5 (.) | 0 (0.0) | | 0 (0.0) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) |
| Hybrid | Masked | < 5 (.) | Masked | < 5 (.) | 5 (41.7) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) | < 5 (.) |

| Other/Unknown | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | < 5 (.) < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) | < 5 (.) | 0 (0.0) | 0 (0.0) | 0 (0.0) |

## Shoulder arthroplasty

**Table xiii.** Elective primary shoulder arthroplasty for osteoarthritis in the Netherlands: patient and prosthesis characteristics.

| Characteristic | 2019 (n = 1,465) | 2020 January (n = 133) | February (n = 133) | March (n = 73) | April (n = 4) | May (n = 52) | June (n = 121) | July (n = 116) | August (n = 102) | September (n = 171) | October (n = 120) | November (n = 87) | December (n = 95) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Age, n (%)** | | | | | | | | | | | | | |
| < 40 | 4 (0.3) | 2 (1.5) | - | - | - | - | - | 1 (0.9) | - | - | - | - | - |
| 40 to 45 | 4 (0.3) | - | 2 (1.5) | - | - | - | 2 (1.7) | - | - | - | - | - | - |
| 45 to 50 | 23 (1.6) | 2 (1.5) | 2 (1.5) | - | - | - | 2 (1.7) | 2 (1.7) | 2 (2.0) | 2 (1.2) | 1 (0.8) | - | 2 (2.1) |
| 50 to 55 | 45 (3.1) | 6 (4.5) | 3 (2.3) | - | - | 2 (3.8) | 2 (1.7) | 4 (3.4) | 2 (2.0) | 5 (2.9) | 3 (2.5) | 3 (3.4) | 1 (1.1) |
| 55 to 60 | 92 (6.3) | 6 (4.5) | 11 (8.3) | 6 (8.2) | 1 (25.0) | 5 (9.6) | 8 (6.6) | 7 (6.0) | 4 (3.9) | 9 (5.3) | 8 (6.7) | 7 (8.0) | 6 (6.3) |
| 60 to 65 | 161 (11.0) | 12 (9.0) | 13 (9.8) | 8 (11.0) | - | 11 (21.2) | 19 (15.7) | 12 (10.3) | 12 (11.8) | 23 (13.5) | 8 (6.7) | 7 (8.0) | 10 (10.5) |
| 65 to 70 | 223 (15.2) | 23 (17.3) | 19 (14.3) | 11 (15.1) | 1 (25.0) | 7 (13.5) | 13 (10.7) | 18 (15.5) | 21 (20.6) | 23 (13.5) | 24 (20.0) | 25 (28.7) | 17 (17.9) |
| 70 to 75 | 346 (23.6) | 34 (25.6) | 36 (27.1) | 27 (37.0) | 1 (25.0) | 11 (21.2) | 31 (25.6) | 30 (25.9) | 23 (22.5) | 43 (25.1) | 25 (20.8) | 17 (19.5) | 25 (26.3) |
| 75 to 80 | 296 (20.2) | 22 (16.5) | 22 (16.5) | 11 (15.1) | - | 8 (15.4) | 25 (20.7) | 23 (19.8) | 19 (18.6) | 39 (22.8) | 27 (22.5) | 11 (12.6) | 13 (13.7) |
| 80 to 85 | 201 (13.7) | 15 (11.3) | 19 (14.3) | 4 (5.5) | - | 7 (13.5) | 14 (11.6) | 13 (11.2) | 15 (14.7) | 23 (13.5) | 15 (12.5) | 14 (16.1) | 15 (15.8) |
| 85 to 90 | 64 (4.4) | 11 (8.3) | 5 (3.8) | 5 (6.8) | 1 (25.0) | 1 (1.9) | 4 (3.3) | 5 (4.3) | 3 (2.9) | 3 (1.8) | 8 (6.7) | 3 (3.4) | 6 (6.3) |
| 90 to 95 | 6 (0.4) | - | 1 (0.8) | 1 (1.4) | - | - | 1 (0.8) | 1 (0.9) | 1 (1.0) | 1 (0.6) | 1 (0.8) | - | - |
| 95 to 100 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 to 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ≥ 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Female, n (%)** | 1,056 (72.1) | 99 (74.4) | 97 (72.9) | 58 (79.5) | 4 (100.0) | 33 (63.5) | 84 (69.4) | 80 (69.0) | 79 (77.5) | 118 (69.0) | 94 (78.3) | 61 (70.1) | 62 (65.3) |
| **BMI, n (%)** | | | | | | | | | | | | | |
| Underweight | 6 (0.4) | - | 1 (0.8) | - | - | - | 1 (0.8) | 1 (0.9) | - | - | 1 (0.8) | - | - |
| Normal weight | 365 (24.9) | 29 (21.8) | 30 (22.6) | 21 (28.8) | 1 (25.0) | 13 (25.0) | 32 (26.4) | 26 (22.4) | 26 (25.5) | 41 (24.0) | 37 (30.8) | 22 (25.3) | 23 (24.2) |
| Overweight | 628 (42.9) | 52 (39.1) | 53 (39.8) | 29 (39.7) | 1 (25.0) | 20 (38.5) | 47 (38.8) | 52 (44.8) | 45 (44.1) | 62 (36.3) | 44 (36.7) | 39 (44.8) | 47 (49.5) |
| Obese | 416 (28.4) | 44 (33.1) | 43 (32.3) | 16 (21.9) | 2 (50.0) | 14 (26.9) | 35 (28.9) | 35 (30.2) | 26 (25.5) | 51 (29.8) | 29 (24.2) | 23 (26.4) | 22 (23.2) |
| Morbidly obese | 37 (2.5) | 4 (3.0) | 2 (1.5) | 3 (4.1) | - | 3 (5.8) | 2 (1.7) | 1 (0.9) | 3 (2.9) | 12 (7.0) | 3 (2.5) | 2 (2.3) | - |
| Missing | 13 (0.9) | 4 (3.0) | 4 (3.0) | 4 (5.5) | - | 2 (3.8) | 4 (3.3) | 1 (0.9) | 2 (2.0) | 5 (2.9) | 6 (5.0) | 1 (1.1) | 3 (3.2) |
| **ASA, n (%)** | | | | | | | | | | | | | |
| I | 137 (9.4) | 12 (9.0) | 11 (8.3) | 10 (13.7) | 1 (25.0) | 5 (9.6) | 11 (9.1) | 12 (10.3) | 7 (6.9) | 17 (9.9) | 5 (4.2) | 2 (2.3) | 10 (10.5) |
| II | 860 (58.7) | 79 (59.4) | 73 (54.9) | 37 (50.7) | 2 (50.0) | 30 (57.7) | 76 (62.8) | 70 (60.3) | 56 (54.9) | 100 (58.5) | 83 (69.2) | 64 (73.6) | 60 (63.2) |
| III-IV | 448 (30.6) | 42 (31.6) | 49 (36.8) | 26 (35.6) | 1 (25.0) | 17 (32.7) | 34 (28.1) | 34 (29.3) | 39 (38.2) | 54 (31.6) | 32 (26.7) | 21 (24.1) | 24 (25.3) |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Walch classification, n (%)** | | | | | | | | | | | | | |
| A1 | 480 (32.8) | 47 (35.3) | 42 (31.6) | 24 (32.9) | 1 (25.0) | 17 (32.7) | 36 (29.8) | 41 (35.3) | 40 (39.2) | 49 (28.7) | 27 (22.5) | 20 (23.0) | 29 (30.5) |
| A2 | 458 (31.3) | 50 (37.6) | 50 (37.6) | 27 (37.0) | - | 17 (32.7) | 40 (33.1) | 40 (34.5) | 29 (28.4) | 60 (35.1) | 48 (40.0) | 33 (37.9) | 30 (31.6) |
| B1 | 211 (14.4) | 20 (15.0) | 19 (14.3) | 9 (12.3) | 2 (50.0) | 7 (13.5) | 24 (19.8) | 19 (16.4) | 9 (8.8) | 19 (11.1) | 18 (15.0) | 15 (17.2) | 10 (10.5) |
| B2 | 152 (10.4) | 10 (7.5) | 12 (9.0) | 10 (13.7) | 1 (25.0) | 5 (9.6) | 9 (7.4) | 9 (7.8) | 19 (18.6) | 25 (14.6) | 14 (11.7) | 10 (11.5) | 14 (14.7) |
| B3 | 49 (3.3) | - | 8 (6.0) | 1 (1.4) | - | 1 (1.9) | 4 (3.3) | 2 (1.7) | 2 (2.0) | 12 (7.0) | 6 (5.0) | 4 (4.6) | 5 (5.3) |
| C | 24 91.6) | 3 (2.3) | 2 (1.5) | - | - | 1 (1.9) | 5 (4.1) | 3 (2.6) | 1 (1.0) | 4 (2.3) | 3 (2.50) | 1 (1.1) | 4 (4.2) |
| Missing | 91 (6.2) | 3 (2.3) | - | 2 (2.7) | - | 4 (7.7) | 3 (2.5) | 2 (1.7) | 2 (2.0) | 2 (1.2) | 4 (3.3) | 4 (4.6) | 3 (3.2) |
| **Type of hospital, n (%)** | | | | | | | | | | | | | |
| Public | 1,335 (91.1) | 118 (88.7) | 121 (91.0) | 67 (91.8) | 4 (100.0) | 46 (88.5) | 106 (87.6) | 96 (82.8) | 96 (94.1) | 153 (89.5) | 106 (88.3) | 72 (82.8) | 85 (89.5) |
| Private | 130 (8.9) | 15 (11.3) | 12 (9.0) | 6 (8.2) | - | 6 (11.5) | 15 (12.4) | 20 (17.2) | 6 (5.9) | 18 (10.5) | 14 (11.7) | 15 (17.2) | 10 (10.5) |
| **Fixation, n (%)** | | | | | | | | | | | | | |
| Cemented | 53 (3.6) | 3 (2.3) | 9 (6.8) | 2 (2.7) | - | 2 (3.8) | 2 (1.7) | - | 3 (2.9) | 5 (2.9) | 1 (0.8) | 1 (1.1) | 1 (1.1) |
| Uncemented | 938 (64.0) | 89 (66.9) | 79 (59.4) | 43 (58.9) | 2 (50.0) | 29 (55.8) | 74 (61.2) | 70 (60.3) | 61 (59.8) | 103 (60.2) | 79 (65.8) | 53 (60.9) | 61 (64.2) |
| Hybrid | 465 (31.7) | 39 (29.3) | 42 (31.6) | 28 (38.4) | 2 (50.0) | 18 (34.6) | 43 (35.5) | 46 (39.7) | 37 (36.3) | 61 (35.7) | 39 (32.5) | 33 (37.9) | 33 (34.7) |
| **Mean EQ-5D (SD)** | 0.543 (0.207) | 0.591 (0.163) | 0.578 (0.1920 | 0.524 (0.205) | - | 0.525 (0.218) | 0.558 (0.207) | 0.597 (0.219) | 0.590 (0.201) | 0.523 (0.234) | 0.561 (0.189) | 0.564 (0.222) | 0.537 (0.2332) |

ASA, American Society of Anesthesiologists; EQ-5D, EuroQoL five-dimension questionnaire; SD, standard deviation.

**Table xiv.** Elective primary shoulder arthroplasty for other elective indications in the Netherlands: patient and prosthesis characteristics.

| Characteristic | 2019 (n = 1,023) | 2020 January (n = 93) | February (n = 90) | March (n = 50) | April (n = 11) | May (n = 38) | June (n = 76) | July (n = 88) | August (n = 69) | September (n = 101) | October (n = 73) | November (n = 57) | December (n = 66) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Age, n (%)** | | | | | | | | | | | | | |
| < 40 | 9 (0.9) | - | - | - | - | - | 1 (1.3) | - | 1 (1.4) | - | - | - | - |
| 40 to 45 | 5 (0.5) | - | - | - | - | - | - | - | - | 3 (3.0) | - | - | - |
| 45 to 50 | 10 (1.0) | - | 1 (1.1) | - | - | 1 (2.6) | 3 (3.9) | - | 1 (1.4) | - | - | 1 (1.8) | - |
| 50 to 55 | 7 (0.7) | 1 (1.1) | 3 (3.3) | 1 (2.0) | - | 1 (2.6) | 2 (2.6) | 2 (2.3) | 1 (1.4) | 5 (5.0) | - | 1 (1.8) | - |
| 55 to 60 | 40 (3.9) | 7 (7.5) | 3 (3.3) | - | 1 (9.1) | 2 (5.3) | 2 (2.6) | 1 (1.1) | 1 (1.4) | 6 (5.9) | 6 (8.2) | 2 (3.5) | 2 (3.0) |
| 60 to 65 | 89 (8.70) | 10 (10.8) | 7 (7.8) | 3 (6.0) | 1 (9.1) | 5 (13.2) | 1 (1.3) | 9 (10.2) | 3 (4.3) | 8 (7.9) | 6 (8.2) | 6 (10.5) | 8 (12.1) |
| 65 to 70 | 169 (16.5) | 12 (12.9) | 16 (17.8) | 5 (10.0) | 2 (18.2) | 4 (10.5) | 12 (15.8) | 12 (13.6) | 10 (14.5) | 16 (15.8) | 9 (12.3) | 10 (17.5) | 16 (24.2) |
| 70 to 75 | 253 (24.7) | 28 (30.1) | 18 (20.0) | 11 (22.0) | 1 (9.1) | 12 (31.6) | 23 (30.3) | 28 (31.8) | 19 (27.5) | 27 (26.7) | 26 (35.6) | 13 (22.8) | 15 (22.7) |
| 75 to 80 | 259 (25.3) | 18 (19.4) | 28 (31.1) | 18 (36.0) | 3 (27.3) | 7 (18.4) | 15 (19.7) | 21 (23.9) | 18 (26.1) | 20 (19.8) | 12 (16.4) | 15 (26.3) | 13 (19.7) |
| 80 to 85 | 143 (14.0) | 13 (14.0) | 11 (12.1) | 7 (14.0) | 2 (18.2) | 3 (7.9) | 15 (19.7) | 12 (13.6) | 11 (15.9) | 11 (10.9) | 11 (15.1) | 8 (14.0) | 9 (13.6) |
| 85 to 90 | 37 (3.6) | 3 (3.2) | 3 (3.3) | 5 (10.0) | 1 (19.1) | 3 (7.9) | 2 (2.6) | 3 (3.4) | 4 (5.8) | 4 (4.0) | 2 (2.7) | 1 (1.8) | 3 (4.5) |
| 90 to 95 | 2 (0.2) | 1 (1.1) | - | - | - | - | - | - | - | 1 (1.0) | 1 (1.4) | - | - |
| 95 to 100 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 to 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ≥ 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Female, n (%)** | 715 (69.9) | 66 (71.0) | 62 (68.9) | 40 (80.0) | 10 (90.9) | 26 (68.4) | 57 (75.0) | 63 (71.6) | 49 (71.0) | 67 (66.3) | 59 (80.8) | 43 (75.4) | 39 (59.1) |
| **BMI, n (%)** | | | | | | | | | | | | | |
| Underweight | 8 (0.8) | - | 1 (1.1) | 1 (2.0) | - | - | 1 (1.3) | 2 (2.3) | - | - | - | 1 (1.8) | - |
| Normal weight | 275 (26.9) | 20 (21.5) | 21 (23.3) | 17 (34.0) | 4 (36.4) | 8 (21.1) | 17 (22.4) | 24 (27.3) | 23 (33.3) | 38 (37.6) | 23 (31.5) | 20 (35.1) | 17 (25.8) |
| Overweight | 425 (41.5) | 39 (41.9) | 36 (40.0) | 19 (38.0) | 4 (36.4) | 16 (42.1) | 25 (32.9) | 27 (30.7) | 26 (37.7) | 36 (35.6) | 29 (39.7) | 23 (40.4) | 26 (39.4) |
| Obese | 286 (28.0) | 29 (31.2) | 27 (30.0) | 11 (22.0) | 2 (18.2) | 11 (28.9) | 28 (36.8) | 29 (33.0) | 18 (26.1) | 22 (21.8) | 17 (23.3) | 13 (22.8) | 16 (24.2) |
| Morbidly obese | 22 (2.2) | 4 (4.3) | 2 (2.2) | - | 1 (9.1) | - | 2 (2.6) | 82 (93.2) | 1 (1.4) | - | 2 (2.7) | - | 2 (3.0) |
| Missing | 7 (0.7) | 1 (1.1) | 3 (3.3) | 2 (4.0) | - | 3 (7.9) | 3 (3.9) | 6 (6.8) | 1 (1.4) | 5 (5.0) | 2 (2.7) | - | 5 (7.6) |
| **ASA, n (%)** | | | | | | | | | | | | | |
| I | 57 (5.6) | 5 (5.4) | 6 (6.7) | 4 (8.0) | - | 3 (7.9) | 4 (5.3) | 4 (4.5) | 6 (8.7) | 4 (4.0) | 4 (5.5) | 2 (3.5) | 2 (3.0) |
| II | 571 (55.8) | 51 (54.8) | 55 (61.1) | 24 (48.0) | 7 (63.6) | 19 (50.0) | 41 (53.9) | 46 (52.3) | 38 (55.1) | 53 (52.5) | 44 (60.3) | 40 (70.2) | 41 (62.1) |
| III-IV | 367 (35.9) | 37 (39.8) | 28 (31.1) | 22 (44.0) | 4 (36.4) | 16 (42.1) | 31 (40.8) | 37 (42.0) | 25 (36.2) | 44 (43.6) | 25 (34.2) | 15 (26.3) | 22 (33.3) |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 16 (42.1) | | | | | | | |
| **Walch classification, n (%)** | | | | | | | | | | | | | |
| A1 | 557 (54.4) | 54 (58.1) | 52 (57.8) | 23 (46.0) | 5 (45.5) | 21 (55.3) | 36 (47.4) | 51 (58.0) | 36 (52.2) | 49 (48.5) | 42 (57.5) | 31 (54.4) | 38 (57.6) |
| A2 | 219 (21.4) | 18 (19.4) | 21 (23.3) | 15 (30.0) | 3 (27.3) | 5 (13.2) | 24 (31.6) | 17 (19.3) | 17 (24.6) | 23 (22.8) | 16 (21.9) | 12 (21.1) | 14 (21.2) |
| B1 | 61 (6.0) | 4 (4.3) | 5 (5.6) | 3 (6.0) | 1 (9.1) | 1 (2.6) | 1 (1.3) | 4 (4.5) | 4 (5.8) | 6 (5.9) | 4 (5.5) | 2 (3.5) | 3 (4.5) |
| B2 | 27 (2.6) | 2 (2.2) | 1 (1.1) | 3 (6.0) | - | 2 (5.3) | 3 (3.9) | 6 (6.8) | 3 (4.3) | 2 (2.0) | 2 (2.7) | 2 (3.5) | 1 (1.5) |
| B3 | 14 (1.4) | 2 (2.2) | - | 1 (2.0) | - | 1 (2.6) | - | 1 (1.1) | 1 (1.4) | 2 (2.0) | 1 (1.4) | 3 (5.3) | 2 (3.0) |
| C | 14 (1.4) | 2 (2.2) | 1 (1.1) | 1 (2.0) | - | - | 3 (3.9) | 2 (2.3) | - | 1 (1.0) | 1 (1.4) | 1 (1.8) | - |
| Missing | 131 (12.8) | 11 (11.8) | 10 (11.1) | 4 (8.0) | 2 (18.2) | 8 (21.1) | 9 (11.8) | 7 (8.0) | 8 (11.6) | 18 (17.8) | - | 6 (10.5) | 8 (12.1) |
| **Type of hospital, n (%)** | | | | | | | | | | | | | |
| Public | 965 (94.3) | 87 (93.5) | 80 (88.9) | 45 (90.0) | 11 (100.0) | 38 (100.0) | 70 (92.1) | 80 (90.9) | 65 (94.2) | 97 (96.0) | 59 (80.8) | 48 (84.2) | 59 (89.4) |
| Private | 58 (5.7) | 6 (6.5) | 10 (11.1) | 5 (10.0) | - | - | 6 (7.9) | 8 (9.1) | 4 (5.8) | 4 (4.0) | 14 (19.2) | 9 (15.8) | 7 (10.6) |
| **Fixation, n (%)** | | | | | | | | | | | | | |
| Cemented | 14 (1.4) | 5 (5.4) | 3 (3.3) | 1 (2.0) | 1 (9.1) | - | 3 (3.9) | 4 (4.5) | - | 3 (3.0) | 3 (4.1) | - | - |
| Uncemented | 903 (88.3) | 82 (88.2) | 79 (87.8) | 42 (84.0) | 7 (63.6) | 26 (68.4) | 66 (86.8) | 76 (86.4) | 57 (82.6) | 85 (84.2) | 64 (87.7) | 46 (80.7) | 59 (89.4) |
| Hybrid | 104 (10.2) | 6 (6.5) | 7 (7.8) | 7 (14.0) | 3 (27.3) | 12 (31.6) | 7 (9.2) | 8 (9.1) | 12 (17.4) | 13 (12.9) | 6 (8.2) | 10 (17.5) | 7 (10.6) |
| **Mean EQ-5D (SD)** | 0.536 (0.204) | 0.545 (0.207) | 0.534 (0.213) | 0.549 (0.239) | 0.545 (0.141) | 0.424 (0.296) | 0.488 (0.195) | 0.533 (0.199) | 0.561 (0.233) | 0.502 (0.213) | 0.383 (0.363) | 0.534 (0.276) | 0.480 (0.273) |

ASA, American Society of Anesthesiologists; EQ-5D, EuroQoL five-dimension questionnaire; SD, standard deviation.

**Table xv.** Acute primary hip arthroplasty indications in the Netherlands: patient and prosthesis characteristics.

| Characteristic | 2019 (n = 765) | 2020 January (n = 63) | February (n = 69) | March (n = 55) | April (n = 49) | May (n = 57) | June (n = 68) | July (n = 68) | August (n = 47) | September (n = 100) | October (n = 61) | November (n = 49) | December (n = 90) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Age, n (%)** | | | | | | | | | | | | | |
| < 40 | 4 (0.5) | - | - | 1 (1.8) | - | - | - | - | - | - | - | - | 1 (1.1) |
| 40 to 45 | 2 (0.3) | - | - | - | - | - | - | - | - | 1 (1.0) | - | - | - |
| 45 to 50 | 5 (0.7) | 1 (1.6) | 3 (4.3) | 1 (1.8) | - | 2 (3.5) | 2 (2.9) | - | - | 1 (1.0) | 2 (3.3) | - | 2 (2.2) |
| 50 to 55 | 24 (3.1) | 2 (3.2) | 3 (4.3) | 5 (9.1) | - | 2 (3.5) | - | 2 (2.9) | 1 (2.1) | 2 (2.0) | 1 (1.6) | - | - |
| 55 to 60 | 31 (4.1) | 4 (6.3) | 6 (8.7) | 4 (7.3) | 3 (6.1) | 2 (3.5) | 5 (7.4) | 4 (5.9) | 3 (6.4) | 10 (10.0) | 2 (3.3) | 1 (2.0) | 8 (8.9) |
| 60 to 65 | 70 (9.2) | 8 (12.7) | 7 (10.1) | 5 (9.1) | 5 (10.2) | 6 (10.5) | 3 (4.4) | 9 (13.2) | 5 (10.6) | 16 (16.0) | 4 (6.6) | 7 (14.3) | 9 (10.0) |
| 65 to 70 | 125 (16.3) | 14 (22.2) | 10 (14.5) | 10 (18.2) | 7 (14.3) | 10 (17.5) | 16 (23.5) | 7 (10.3) | 11 (23.4) | 14 (14.0) | 13 (21.3) | 9 (18.4) | 18 (20.0) |
| 70 to 75 | 183 (23.9) | 18 (28.6) | 12 (17.4) | 14 (25.5) | 10 (20.4) | 13 (22.8) | 18 (26.5) | 25 (36.8) | 4 (8.5) | 21 (21.0) | 14 (23.0) | 16 (32.7) | 17 (18.9) |
| 75 to 80 | 155 (20.3) | 11 (17.5) | 14 (20.3) | 6 (10.9) | 15 (30.6) | 10 (17.5) | 13 (19.1) | 11 (16.2) | 12 (25.5) | 16 (16.0) | 11 (18.0) | 11 (22.4) | 19 (21.1) |
| 80 to 85 | 107 (14.0) | 3 (4.8) | 9 (13.0) | 5 (9.1) | 7 (14.3) | 6 (10.5) | 7 (10.3) | 7 (10.3) | 8 (17.0) | 12 (12.0) | 9 (14.8) | 4 (8.2) | 11 (12.2) |
| 85 to 90 | 45 (5.9) | 1 (1.6) | 4 (5.8) | 3 (5.5) | 2 (4.1) | 6 (10.5) | 3 (4.4) | 3 (4.4) | 3 (6.4) | 7 (7.0) | 4 (6.6) | - | 4 (4.4) |
| 90 to 95 | 12 (1.6) | 1 (1.6) | 1 (1.4) | 1 (1.8) | - | - | 1 (1.5) | - | - | - | 1 (1.6) | 1 (2.0) | 1 (1.1) |
| 95 to 100 | 2 (0.3) | - | - | - | - | - | - | - | - | - | - | - | - |
| 100 to 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ≥ 105 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Female, yes (%) | 611 (79.9) | 50 (79.4) | 58 (84.1) | 45 (81.8) | 46 (93.9) | 44 (77.2) | 59 (86.8) | 58 (85.3) | 40 (85.1) | 84 (84.0) | 53 (86.9) | 40 (81.6) | 67 (74.4) |
| **BMI, n (%)** | | | | | | | | | | | | | |
| Underweight | 8 (1.0) | 1 (1.6) | 2 (2.9) | 1 (1.8) | 1 (2.0) | 1 (1.8) | 1 (1.5) | - | - | - | 1 (1.6) | - | 3 (3.3) |
| Normal weight | 217 (28.4) | 23 (36.5) | 18 (26.1) | 12 (21.8) | 18 (36.7) | 19 (33.3) | 22 (32.4) | 21 (30.9) | 11 (23.4) | 25 (25.0) | 22 (36.1) | 10 (20.4) | 22 (24.4) |
| Overweight | 280 (36.6) | 13 (20.6) | 19 (27.5) | 21 (38.2) | 16 (32.7) | 13 (22.8) | 27 (39.7) | 24 (35.3) | 8 (17.0) | 30 (30.0) | 17 (27.9) | 18 (36.7) | 34 (37.8) |
| Obese | 211 (27.6) | 21 (33.3) | 21 (30.4) | 16 (29.1) | 11 (22.4) | 16 (28.1) | 15 (22.1) | 18 (26.5) | 21 (44.7) | 32 (32.0) | 16 (26.2) | 15 (30.6) | 27 (30.0) |
| Morbidly obese | 29 (3.8) | 2 (3.2) | 3 (4.3) | 2 (3.6) | 2 (4.1) | 1 (1.8) | 2 (2.9) | 3 (4.4) | 3 (6.4) | 11 (11.0) | 3 (4.9) | 2 (4.1) | 2 (2.2) |
| Missing | 20 (2.6) | 3 (4.8) | 6 (8.7) | 3 (5.5) | 1 (2.0) | 7 (12.3) | 1 (1.5) | 2 (2.9) | 4 (8.5) | 2 (2.0) | 2 (3.3) | 4 (8.2) | 2 (2.2) |
| **ASA, n (%)** | | | | | | | | | | | | | |
| I | 56 (7.3) | 5 (7.9) | 2 (2.9) | 2 (3.6) | 4 (8.2) | 7 (12.3) | 8 (11.8) | 3 (4.4) | 4 (8.5) | 8 (8.0) | 2 (3.3) | 3 (6.1) | 1 (1.1) |
| II | 371 (48.5) | 39 (61.9) | 38 (55.1) | 33 (60.0) | 25 (51.0) | 28 (49.1) | 42 (61.8) | 42 (61.8) | 22 (46.8) | 52 (52.0) | 31 (50.8) | 29 (59.2) | 54 (60.0) |
| III-IV | 312 (40.8) | 19 (30.2) | 29 (42.0) | 20 (36.4) | 20 (40.8) | 22 (38.6) | 18 (26.5) | 23 (33.8) | 21 (44.7) | 40 (40.0) | 27 (44.3) | 17 (34.7) | 35 (38.9) |
| **Walch classification, n (%)** | 280 (36.6) | 29 (46.0) | 21 (30.4) | 20 (36.4) | 14 (28.6) | 22 (38.6) | 29 (42.6) | 17 (25.0) | 17 (36.2) | 47 (47.0) | 18 (29.5) | 19 (38.8) | 24 (26.7) |
| A1 | 60 (7.8) | 4 (6.3) | 2 (2.9) | 4 (7.3) | 1 (2.0) | 4 (7.0) | 8 (11.8) | 5 (7.4) | 3 (6.4) | 6 (6.0) | 4 (6.6) | 2 (4.1) | 6 (6.7) |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A2 | 20 (2.6) | 2 (3.2) | 1 (1.4) | - | - | 1 (1.8) | 2 (2.9) | 1 (1.5) | - | - | 3 (4.9) | - | - |
| B1 | 18 (2.4) | 1 (1.6) | 1 (1.4) | 1 (1.8) | - | - | 1 (1.5) | 1 (1.5) | - | - | 2 (3.3) | - | - |
| B2 | 1 (0.1) | 1 (1.6) | 1 (1.4) | - | - | 1 (1.8) | - | - | - | 1 (1.0) | - | - | - |
| B3 | 2 (0.3) | 1 (1.6) | - | - | - | - | - | - | - | 46 (46.0) | - | - | 2 (2.2) |
| C | 384 (50.2) | 25 (39.7) | 43 (62.3) | 30 (54.5) | 34 (69.4) | 29 (50.9) | 28 (41.2) | 44 (64.7) | 27 (57.4) | - | 34 (55.7) | 29 (57.1) | 58 (64.4) |
| Missing | | | | | | | | | | | | | |
| **Type of hospital, n (%)** | | | | | | | | | | | | | |
| Public | 758 (99.1) | 63 (100.0) | 68 (98.6) | 55 (100.0) | 49 (100.0) | 56 (98.2) | 68 (100.00) | 66 (97.1) | 47 (100.0) | 96 (96.0) | 61 (100.0) | 49 (100.0) | 90 (100.0) |
| Private | 7 (0.9) | - | 1 (1.4) | - | - | 1 (1.8) | - | 2 (2.9) | - | 4 (4.0) | - | - | - |
| **Fixation, n (%)** | | | | | | | | | | | | | |
| Cemented | 115 (15.0) | 7 (11.1) | 11 (15.9) | 13 (23.6) | 13 (26.5) | 7 (12.3) | 7 (10.3) | 7 (10.3) | 5 (10.6) | 10 (10.0) | 6 (9.8) | 3 (6.1) | 7 (7.8) |
| Uncemented | 257 (33.6) | 22 (34.9) | 20 (29.0) | 16 (29.1) | 9 (18.4) | 28 (49.1) | 29 (42.6) | 23 (33.8) | 17 (36.2) | 38 (38.0) | 29 (47.5) | 14 (28.6) | 38 (42.2) |
| Hybrid | 386 (50.5) | 32 (50.8) | 35 (50.7) | 24 (43.6) | 25 (51.0) | 21 (36.8) | 30 (44.1) | 36 (52.9) | 24 (51.1) | 52 (52.0) | 26 (42.6) | 31 (63.3) | 45 (50.0) |
| **Mean EQ-5D (SD)** | 0.459 (0.246) | 0.482 (0.184) | 0.489 (0.140) | 0.486 (0.238) | 0.739 | 0.370 (0.359) | 0.526 (0.244) | 0.585 (0.246) | 0.423 (0.246) | 0.430 (0.276) | 0.541 (0.191) | 0.377 (0.255) | 0.334 (0.289) |

ASA, American Society of Anesthesiologists; EQ-5D; EuroQoL five-dimension questionnaire; SD, standard deviation.