Supplementary material 4. Observed and expected number of cataract surgery according to sex by 5-year intervals

|  |  |
| --- | --- |
|  | 2017 |
| 　 | Total | Male | Female |
| Age group | Observed | Expecteda  | Difference | Observed | Expected | Difference | Observed | Expected | Difference |
| <30 | 994 | 1,024 | -30 | 656 | 636 | 20 | 338 | 388 | -50 |
| 30-34 | 637 | 624 | 13 | 406 | 403 | 3 | 231 | 221 | 10 |
| 35-39 | 1,616 | 1,533 | 83 | 1,049 | 992 | 57 | 567 | 541 | 26 |
| 40-44 | 4,987 | 4,564 | 423 | 2,975 | 2,831 | 144 | 2,012 | 1,733 | 279 |
| 45-49 | 16,276 | 13,453 | 2,823 | 7,867 | 7,439 | 428 | 8,409 | 6,014 | 2,395 |
| 50-54 | 29,454 | 24,206 | 5,248 | 13,098 | 11,745 | 1,353 | 16,356 | 12,461 | 3,895 |
| 55-59 | 48,062 | 42,889 | 5,173 | 21,126 | 19,483 | 1,643 | 26,936 | 23,406 | 3,530 |
| 60-64 | 65,037 | 62,376 | 2,661 | 27,505 | 26,444 | 1,061 | 37,532 | 35,932 | 1,600 |
| 65-69 | 85,748 | 87,018 | -1,270 | 35,565 | 35,356 | 209 | 50,183 | 51,662 | -1,479 |
| 70-74 | 96,680 | 99,920 | -3,240 | 38,541 | 39,396 | -855 | 58,139 | 60,524 | -2,385 |
| 75-79 | 92,259 | 96,237 | -3,978 | 36,380 | 37,832 | -1,452 | 55,879 | 58,405 | -2,526 |
| 80-84 | 46,747 | 46,942 | -195 | 18,078 | 18,106 | -28 | 28,669 | 28,836 | -167 |
| ≥85 | 14,833 | 15,076 | -243 | 5,435 | 5,324 | 111 | 9,398 | 9,752 | -354 |
| Total | 503,330 | 495,862 | 7,468 | 208,681 | 205,987 | 2,694 | 294,649 | 289,875 | 4,774 |
| Excessb |  |  | 16,424 |  |  | 5,029 |  |  | 11,735 |
| aExpected number of cataract surgery was calculated on the assumption that the age group- and gender-specific cataract surgery rate in 2016 was maintained by in subsequent years.bExcess number of cataract surgeries was calculated by adding up only those of exceeding the expected number of surgeries by age group. |

|  |  |
| --- | --- |
|  | 2018 |
| 　 | Total | Male | Female |
| Age group | Observed | Expecteda  | Difference | Observed | Expected | Difference | Observed | Expected | Difference |
| <30 | 1,035 | 1,005 | 30 | 626 | 624 | 2 | 409 | 381 | 28 |
| 30-34 | 571 | 601 | -30 | 349 | 389 | -40 | 222 | 212 | 10 |
| 35-39 | 1,659 | 1,540 | 119 | 1,133 | 995 | 138 | 526 | 545 | -19 |
| 40-44 | 4,906 | 4,373 | 533 | 2,777 | 2,723 | 54 | 2,129 | 1,650 | 479 |
| 45-49 | 19,110 | 13,340 | 5,770 | 8,568 | 7,372 | 1,196 | 10,542 | 5,968 | 4,574 |
| 50-54 | 36,611 | 24,935 | 11,676 | 14,863 | 12,043 | 2,820 | 21,748 | 12,892 | 8,856 |
| 55-59 | 57,099 | 42,897 | 14,202 | 23,510 | 19,522 | 3,988 | 33,589 | 23,375 | 10,214 |
| 60-64 | 73,058 | 66,727 | 6,331 | 30,280 | 28,404 | 1,876 | 42,778 | 38,323 | 4,455 |
| 65-69 | 89,704 | 89,245 | 459 | 36,959 | 36,224 | 735 | 52,745 | 53,021 | -276 |
| 70-74 | 98,082 | 104,637 | -6,555 | 39,846 | 41,761 | -1,915 | 58,236 | 62,876 | -4,640 |
| 75-79 | 97,415 | 98,134 | -719 | 39,277 | 38,873 | 404 | 58,138 | 59,261 | -1,123 |
| 80-84 | 47,966 | 50,102 | -2,136 | 19,310 | 19,639 | -329 | 28,656 | 30,463 | -1,807 |
| ≥85 | 15,370 | 16,284 | -914 | 5,718 | 5,851 | -133 | 9,652 | 10,433 | -781 |
| Total | 542,586 | 513,820 | 28,766 | 223,216 | 214,420 | 8,796 | 319,370 | 299,400 | 19,970 |
| Excessb |  |  | 39,120 |  |  | 11,213 |  |  | 28,616 |

Supplementary material 4. Observed and expected number of cataract surgery according to sex by 5-year intervals (cont.)

|  |
| --- |
| aExpected number of cataract surgery was calculated on the assumption that the age group- and gender-specific cataract surgery rate in 2016 was maintained by in subsequent years.bExcess number of cataract surgeries was calculated by adding up only those of exceeding the expected number of surgeries by age group. |

Supplementary material 4. Observed and expected number of cataract surgery according to sex by 5-year intervals (cont.)

|  |  |
| --- | --- |
|  | 2019 |
| 　 | Total | Male | Female |
| Age group | Observed | Expecteda  | Difference | Observed | Expected | Difference | Observed | Expected | Difference |
| <30 | 1,012 | 985 | 27 | 641 | 611 | 30 | 371 | 374 | -3 |
| 30-34 | 664 | 596 | 68 | 403 | 387 | 16 | 261 | 209 | 52 |
| 35-39 | 1,695 | 1,478 | 217 | 1,092 | 957 | 135 | 603 | 521 | 82 |
| 40-44 | 5,190 | 4,332 | 858 | 2,872 | 2,691 | 181 | 2,318 | 1,641 | 677 |
| 45-49 | 22,832 | 13,134 | 9,698 | 9,625 | 7,270 | 2,355 | 13,207 | 5,864 | 7,343 |
| 50-54 | 47,083 | 25,415 | 21,668 | 18,098 | 12,249 | 5,849 | 28,985 | 13,166 | 15,819 |
| 55-59 | 70,337 | 42,584 | 27,753 | 27,739 | 19,436 | 8,303 | 42,598 | 23,148 | 19,450 |
| 60-64 | 91,380 | 70,927 | 20,453 | 36,524 | 30,137 | 6,387 | 54,856 | 40,790 | 14,066 |
| 65-69 | 103,314 | 94,338 | 8,976 | 41,893 | 38,472 | 3,421 | 61,421 | 55,866 | 5,555 |
| 70-74 | 114,382 | 109,682 | 4,700 | 47,244 | 44,129 | 3,115 | 67,138 | 65,553 | 1,585 |
| 75-79 | 105,741 | 98,451 | 7,290 | 42,922 | 39,338 | 3,584 | 62,819 | 59,113 | 3,706 |
| 80-84 | 55,363 | 53,561 | 1,802 | 22,177 | 21,351 | 826 | 33,186 | 32,210 | 976 |
| ≥85 | 17,635 | 17,912 | -277 | 6,804 | 6,560 | 244 | 10,831 | 11,352 | -521 |
| Total | 636,628 | 533,395 | 103,233 | 258,034 | 223,588 | 34,446 | 378,594 | 309,807 | 68,787 |
| Excessb |  |  | 103,510 |  |  | 34,446 |  |  | 69,311 |
| aExpected number of cataract surgery was calculated on the assumption that the age group- and gender-specific cataract surgery rate in 2016 was maintained by in subsequent years.bExcess number of cataract surgeries was calculated by adding up only those of exceeding the expected number of surgeries by age group. |

Supplementary material 4. Observed and expected number of cataract surgery according to sex by 5-year intervals (cont.)

|  |  |
| --- | --- |
|  | 2020 |
| 　 | Total | Male | Female |
| Age group | Observed | Expecteda  | Difference | Observed | Expected | Difference | Observed | Expected | Difference |
| <30 | 857 | 962 | -105 | 529 | 596 | -67 | 328 | 366 | -38 |
| 30-34 | 507 | 594 | -87 | 318 | 387 | -69 | 189 | 207 | -18 |
| 35-39 | 1,600 | 1,408 | 192 | 986 | 912 | 74 | 614 | 496 | 118 |
| 40-44 | 5,542 | 4,383 | 1,159 | 2,897 | 2,727 | 170 | 2,645 | 1,656 | 989 |
| 45-49 | 27,239 | 12,744 | 14,495 | 10,931 | 7,040 | 3,891 | 16,308 | 5,704 | 10,604 |
| 50-54 | 61,148 | 25,757 | 35,391 | 21,908 | 12,438 | 9,470 | 39,240 | 13,319 | 25,921 |
| 55-59 | 85,222 | 41,773 | 43,449 | 31,221 | 19,094 | 12,127 | 54,001 | 22,679 | 31,322 |
| 60-64 | 105,574 | 74,400 | 31,174 | 40,709 | 31,681 | 9,028 | 64,865 | 42,719 | 22,146 |
| 65-69 | 107,018 | 103,567 | 3,451 | 43,392 | 42,159 | 1,233 | 63,626 | 61,408 | 2,218 |
| 70-74 | 106,692 | 115,631 | -8,939 | 44,606 | 46,657 | -2,051 | 62,086 | 68,974 | -6,888 |
| 75-79 | 89,039 | 98,081 | -9,042 | 36,690 | 39,605 | -2,915 | 52,349 | 58,476 | -6,127 |
| 80-84 | 45,024 | 55,583 | -10,559 | 18,641 | 22,469 | -3,828 | 26,383 | 33,114 | -6,731 |
| ≥85 | 14,893 | 19,745 | -4,852 | 6,038 | 7,371 | -1,333 | 8,855 | 12,374 | -3,519 |
| Total | 650,355 | 554,628 | 95,727 | 258,866 | 233,136 | 25,730 | 391,489 | 321,492 | 69,997 |
| Excessb |  |  | 129,311 |  |  | 35,993 |  |  | 93,318 |
| aExpected number of cataract surgery was calculated on the assumption that the age group- and gender-specific cataract surgery rate in 2016 was maintained by in subsequent years.bExcess number of cataract surgeries was calculated by adding up only those of exceeding the expected number of surgeries by age group. |