|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Incidence (per 1000 person-years) | | | | |  | Prevalence (%) | | | | |
| Year | Person-Year | Cases | Crude Incidence | Age-sex standardized  [95% CI] | Age-sex-LOD standardized  [95% CI] |  | Eligible population | Cases | Crude  Prevalence | Age-sex Standardized  [95% CI] | Age-sex-LOD standardized  [95% CI] |
| 1997 | 1321487 | 12296 | 9.30 [9.14-9.47] | 9.17 [9.00-9.34] |  |  | 5711501 | 195362 | 3.42 [3.40-3.44] | 6.15 [6.11-6.19] |  |
| 1998 | 1509159 | 14817 | 9.81 [9.66-9.97] | 9.05 [8.89-9.20] | 10.05 [7.43-12.67] |  | 5781677 | 215113 | 3.72 [3.70-3.74] | 7.20 [7.16-7.24] | 8.23 [8.06-8.40] |
| 1999 | 1831971 | 17216 | 9.39 [9.26-9.54] | 8.87 [8.73-9.01] | 10.69 [10.00-11.37] |  | 5848216 | 234835 | 4.01 [3.98-4.03] | 7.41 [7.37-7.45] | 8.47 [8.39-8.55] |
| 2000 | 2262732 | 20599 | 9.10 [8.98-9.22] | 8.97 [8.84-9.11] | 9.61 [9.31-9.92] |  | 5896329 | 255264 | 4.32 [4.30-4.35] | 7.41 [7.37-7.44] | 8.94 [8.88-9.00] |
| 2001 | 2534401 | 23615 | 9.31 [9.19-9.43] | 9.20 [9.07-9.32] | 9.36 [9.15-9.57] |  | 5900383 | 276091 | 4.77 [4.74-4.80] | 7.87 [7.83-7.90] | 9.08 [9.03-9.13] |
| 2002 | 2858237 | 26597 | 9.30 [9.19-9.41] | 9.37 [9.25-9.49] | 9.64 [9.44-9.84] |  | 5862771 | 296445 | 5.05 [5.02-5.08] | 7.98 [7.95-8.01] | 9.27 [9.22-9.32] |
| 2003 | 3046692 | 29358 | 9.63 [9.52-9.74] | 9.63 [9.51-9.74] | 10.00 [9.81-10.19] |  | 5788957 | 317611 | 5.48 [5.45-5.51] | 8.19 [8.16-8.22] | 9.47 [9.42-9.52] |
| 2004 | 3247175 | 32543 | 10.02 [9.91-10.13] | 10.06 [9.95-10.17] | 10.42 [10.23-10.61] |  | 5705620 | 339718 | 5.95 [5.92-5.98] | 8.55 [8.52-8.58] | 9.77 [9.73-9.82] |
| 2005 | 3317484 | 33093 | 9.97 [9.86-10.08] | 10.15 [10.04-10.26] | 10.33 [10.15-10.52] |  | 5615033 | 363534 | 6.47 [6.43-6.52] | 9.06 [9.03-9.09] | 10.21 [10.16-10.26] |
| 2006 | 3346598 | 30840 | 9.21 [9.11-9.31] | 9.39 [9.29-9.50] | 9.55 [9.37-9.72] |  | 5467107 | 378799 | 6.92 [6.90-6.94] | 9.44 [9.42-9.47] | 10.62 [10.57-10.66] |
| 2007 | 3374993 | 30236 | 8.95 [8.88-9.06] | 9.15 [9.04-9.25] | 9.49 [9.32-9.65] |  | 5294313 | 388708 | 7.34 [7.30-7.38] | 9.73 [9.71-9.76] | 10.64 [10.60-10.68] |
| 2008 | 3381824 | 30261 | 8.94 [8.84-9.05] | 9.20 [9.10-9.30] | 9.59 [9.44-9.74] |  | 5112496 | 398003 | 7.78 [7.74-7.82] | 10.07 [10.04-10.10] | 10.91 [10.87-10.95] |
| 2009 | 3362701 | 29387 | 8.73 [8.63-8.83] | 8.99 [8.89-9.10] | 9.36 [9.22-9.50] |  | 4924529 | 405402 | 8.23 [8.20-8.26] | 10.35 [10.32-10.38] | 10.91 [10.88-10.95] |
| 2010 | 3314620 | 27133 | 8.18 [8.09-8.28] | 8.42 [8.32-8.52] | 8.74 [8.62-8.87] |  | 4689058 | 403343 | 8.60 [8.56-8.64] | 10.54 [10.51-10.57] | 10.93 [10.90-10.96] |
| 2011 | 3235505 | 26100 | 8.06 [7.96-8.16] | 8.30 [8.20-8.40] | 8.48 [8.36-8.59] |  | 4421201 | 398434 | 9.01 [8.96-9.06] | 10.69 [10.66-10.72] | 10.94 [10.91-10.97] |
| 2012 | 3196392 | 24727 | 7.73 [7.64-7.83] | 7.95 [7.85-8.05] | 8.10 [7.90-8.30] |  | 4165371 | 391691 | 9.40 [9.36-9.44] | 10.76 [10.73-10.79] | 10.87 [10.84-10.90] |
| 2013 | 3030317 | 23409 | 7.72 [7.62-7.82] | 7.87 [7.77-7.97] | 7.94 [7.84-8.05] |  | 3812788 | 374298 | 9.82 [9.78-9.86] | 10.87 [10.84-10.90] | 10.90 [10.87-10.93] |
| 2014 | 2758065 | 21113 | 7.65 [7.55-7.75] | 7.74 [7.64-7.85] | 7.75 [7.65-7.86] |  | 3314992 | 337168 | 10.17 [10.14-10.20] | 10.96 [10.93-10.99] | 10.95 [10.92-10.98] |
| 2015 | 2360852 | 17690 | 7.49 [7.38-7.60] | 7.52 [7.41-7.63] | 7.51 [7.40-7.62] |  | 2761702 | 290020 | 10.50 [10.47-10.53] | 10.94 [10.90-10.97] | 10.93 [10.90-10.96] |
| 2016 | 1889587 | 13540 | 7.16 [7.04-7.28] | 7.18 [7.06-7.30] | 7.17 [7.05-7.29] |  | 2100061 | 223948 | 10.66 [10.63-10.69] | 10.96 [10.93-11.00] | 10.95 [10.92-10.99] |
| 2017 | 1495497 | 10146 | 6.78 [6.67-6.93] | 6.78 [6.67-6.93] | 6.78 [6.67-6.93] |  | 1690618 | 181464 | 10.77 [10.72-10.82] | 10.77 [10.72-10.82] | 10.77 [10.72-10.82] |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Hip | |  | Knee | |  | Wrist/Hand | |  | Ankle/Foot | |  | Unspecified | |
|  | Men | Women |  | Men | Women |  | Men | Women |  | Men | Women |  | Men | Women |
| 1998 | 0.95 [0.92-0.98] | 1.24 [1.21-1.27] |  | 2.19 [1.15-2.24] | 2.51 [2.48-2.54] |  | 0.30 [0.27-0.33] | 0.60 [0.56-0.64] |  | 0.28 [0.24-0.32] | 0.41 [0.38-0.44] |  | 4.18 [4.15-4.21] | 6.27 [6.24-6.30] |
| 1999 | 0.86 [0.83-0.89] | 1.18 [1.15-1.21] |  | 2.14 [2.11-2.15] | 2.56 [2.52-2.60] |  | 0.28 [0.24-0.31] | 0.62[0.59-0.65] |  | 0.31 [0.29-0.33] | 0.43 [0.40-0.47] |  | 4.48 [4.45-4.51] | 6.75 [6.71-6.79] |
| 2000 | 0.90 [0.87-0.93] | 1.25 [1.22-1.29] |  | 2.11 [2.06-2.16] | 2.63 [2.58-2.68] |  | 0.27 [0.26-0.29] | 0.61 [0.58-0.63] |  | 0.27 [0.25-0.29] | 0.35 [0.33-0.36] |  | 4.82 [4.75-4.89] | 7.51 [7.43-7.59] |
| 2001 | 0.92 [0.89-0.95] | 1.28 [1.25-1.31] |  | 2.13 [2.09-2.18] | 2.67 [2.63-2.72] |  | 0.27 [0.26-0.29] | 0.63 [0.60-0.65] |  | 0.27 [0.25-0.29] | 0.34 [0.32-0.36] |  | 4.92 [4.86-4.98] | 7.64 [7.57-7.72] |
| 2002 | 0.93 [0.91-0.96] | 1.30 [1.27-1.33] |  | 2.14 [2.10-2.18] | 2.69 [2.65-2.73] |  | 0.27 [0.25-0.28] | 0.61 [0.59-0.63] |  | 0.27 [0.25-0.28] | 0.33 [0.32-0.35] |  | 5.08 [5.02-5.14] | 7.92 [7.85-7.99] |
| 2003 | 0.96 [0.93-0.98] | 1.33 [1.30-1.36] |  | 2.21 [2.18-2.25] | 2.76 [2.72-2.80] |  | 0.27 [0.26-0.29] | 0.62 [0.60-0.64] |  | 0.27 [0.26-0.28] | 0.33 [0.31-0.34] |  | 5.17 [5.12-5.23] | 8.08 [8.02-8.15] |
| 2004 | 0.98 [0.95-1.01] | 1.36 [1.33-1.39] |  | 2.26 [2.22-2.30] | 2.81 [2.77-2.85] |  | 0.28 [0.26-0.29] | 0.64 [0.62-0.66] |  | 0.27 [0.26-0.29] | 0.34 [0.32-0.35] |  | 5.37 [5.31-5.43] | 8.46 [8.40-8.53] |
| 2005 | 1.04 [1.01-1.06] | 1.43 [1.40-1.46] |  | 2.32 [2.28-2.36] | 2.89 [2.85-2.93] |  | 0.28 [0.27-0.30] | 0.66 [0.64-0.68] |  | 0.28 [0.26-0.29] | 0.34 [0.33-0.35] |  | 5.70 [5.65-5.76] | 8.97 [8.90-9.03] |
| 2006 | 1.05 [1.03-1.08] | 1.48 [1.45-1.51] |  | 2.39 [2.35-2.42] | 2.98 [2.94-3.01] |  | 0.29 [0.28-0.31] | 0.68 [0.67-0.70] |  | 0.28 [0.27-0.30] | 0.35 [0.34-0.36] |  | 5.97 [5.92-6.02] | 9.36 [9.30-9.42] |
| 2007 | 1.05 [1.03-1.07] | 1.48 [1.45-1.50] |  | 2.36 [2.33-2.39] | 2.96 [2.92-2.99] |  | 0.28 [0.27-0.30] | 0.67 [0.65-0.68] |  | 0.27 [0.26-0.29] | 0.33 [0.32-0.34] |  | 6.03 [5.98-6.08] | 9.47 [9.41-9.53] |
| 2008 | 1.10 [1.08-1.12] | 1.55 [1.52-1.57] |  | 2.46 [2.43-2.49] | 3.09 [3.06-3.13] |  | 0.30 [0.28-0.31] | 0.69 [0.68-0.71] |  | 0.29 [0.28-0.30] | 0.35 [0.33-0.36] |  | 6.13 [6.09-6.18] | 9.62 [9.57-9.67] |
| 2009 | 1.09 [1.07-1.11] | 1.55 [1.53-1.57] |  | 2.42 [2.40-2.45] | 3.10 [3.07-3.13] |  | 0.29 [0.28-0.30] | 0.71 [0.69-0.72] |  | 0.28 [0.28-0.29] | 0.34 [0.33-0.35] |  | 6.11 [6.07-6.15] | 9.68 [9.64-9.73] |
| 2010 | 1.10 [1.08-1.12] | 1.56 [1.54-1.58] |  | 2.44[2.41-2.47] | 3.13 [3.11-3.16] |  | 0.29 [0.28-0.30] | 0.71 [0.70-0.72] |  | 0.29 [0.28-0.30] | 0.34 [0.33-0.35] |  | 6.12 [6.08-6.16] | 9.66 [9.62-9.71] |
| 2011 | 1.12 [1.11-1.14] | 1.59 [1.57-1.61] |  | 2.50 [2.48-2.52] | 3.22 [3.19-3.24] |  | 0.30 [0.29-0.31] | 0.73 [0.71-0.74] |  | 0.29 [0.28-0.30] | 0.35 [0.34-0.36] |  | 6.03 [5.99-6.06] | 9.58 [9.54-9.62] |
| 2012 | 1.11 [1.09-1.12] | 1.57 [1.55-1.59] |  | 2.46 [2.43-2.48] | 3.16 [3.13-3.19] |  | 0.29 [0.29-0.30] | 0.71 [0.70-0.73] |  | 0.28 [0.27-0.29] | 0.33 [0.32-0.33] |  | 5.99 [5.96-6.03] | 9.57 [9.52-9.61] |
| 2013 | 1.12 [1.11-1.14] | 1.58 [1.57-1.60] |  | 2.49 [2.46-2.51] | 3.20 [3.17-3.23 |  | 0.29 [0.28-0.30] | 0.72 [0.70-0.73] |  | 0.28 [0.27-0.29] | 0.33 [0.32-0.34] |  | 5.97 [5.93-6.00] | 9.56 [9.52-9.60] |
| 2014 | 1.16 [1.14-1.18] | 1.63 [1.61-1.65] |  | 2.56 [2.53-2.58] | 3.29 [3.26-3.31] |  | 0.30 [0.30-0.31] | 0.74 [0.73-0.76] |  | 0.29 [0.28-0.30] | 0.34 [0.33-0.35] |  | 5.92 [5.88-5.95] | 9.50 [9.46-9.54] |
| 2015 | 1.20 [1.18-1.22] | 1.68 [1.66-1.70] |  | 2.60 [2.58-2.63] | 3.36 [3.33-3.39] |  | 0.32 [0.31-0.32] | 0.77 [0.76-0.79] |  | 0.30 [0.29-0.31] | 0.35 [0.34-0.36] |  | 5.79 [5.76-5.83] | 9.38 [9.34-9.42] |
| 2016 | 1.19 [1.17-1.21] | 1.65 [1.63-1.68] |  | 2.55 [2.53-2.58] | 3.26 [3.23-3.29] |  | 0.30 [0.29-0.31] | 0.74 [0.73-0.76] |  | 0.28 [0.27-0.29] | 0.33 [0.32-0.34] |  | 5.91 [5.87-5.95] | 9.49 [9.44-9.54] |
| 2017 | 1.20 [1.18-1.22] | 1.68 [1.65-1.70] |  | 2.51 [2.48-2.54] | 3.23 [3.19-3.26] |  | 0.29 [0.28-0.31] | 0.74 [0.72-0.75] |  | 0.27 [0.26-0.28] | 0.32 [0.31-0.34] |  | 5.77 [5.73-5.82] | 9.35 [9.30-9.41] |
| AAPC | 1.5 [0.9 to 1.9]\* | 1.8 [1.5 to 2.1]\* |  | 0.9 [0.4 to 1.4]\* | 1.3 [1.0 to 1.7]\* |  | 0.2 [-0.4 to 0.9] | 1.3 [1.1 to 1.5] |  | 0.1 [-0.2 to 0.4] | -1.2 [-2.0 to -0.3]\* |  | 1.7 [1.3 to 2.1]\* | 2.2 [1.9 to 2.5]\* |

AAPC: Average annual percentage change; CI- Confidence interval; Age and length of data standardized using 2017 CPRD population; \**P-*value <0.05

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Hip | |  | Knee | |  | Wrist/Hand | |  | Ankle/Foot | |  | Unspecified | |
|  | Men | Women |  | Men | Women |  | Men | Women |  | Men | Women |  | Men | Women |
| 1998 | 0.86 [0.74-0.98] | 1.20[1.12-1.27] |  | 1.69 [1.26-2.02] | 2.00 [1.89-2.11] |  | 0.44 [0.34-0.54] | 0.89 [0.80-0.98] |  | 0.25 [0.19-0.28] | 0.18 [0.02-0.99] |  | 6.72 [3.73-9.71] | 10.76 [6.91-14.62] |
| 1999 | 0.74 [0.48-0.99] | 1.08 [0.79-1.38] |  | 1.70 [1.31-2.09] | 2.12 [1.70-2.53] |  | 0.35 [0.29-0.41] | 0.85 [0.77-0.93] |  | 0.29 [0.12-0.45] | 0.15 [0.041-0.26] |  | 7.22 [6.42-8.03] | 12.12 [11.11-13.12] |
| 2000 | 0.71 [0.60-0.83] | 1.15 [1.01-1.30] |  | 1.94 [1.74-2.13] | 2.19 [1.98-2.40] |  | 0.34 [0.27-0.42] | 0.73 [0.67-0.79] |  | 0.23 [0.16-0.29] | 0.22 [0.16-0.29] |  | 6.29 [5.94-6.65] | 9.93 [9.49-10.37] |
| 2001 | 0.96 [0.86-1.06] | 1.24 [1.13-1.34] |  | 2.00 [1.87-2.14] | 2.77 [2.61-2.92] |  | 0.32 [0.22-0.42] | 0.61 [0.55-0.67] |  | 0.15 [0.11-0.19] | 0.23 [0.19-0.28] |  | 5.64 [5.41-5.88] | 9.02 [8.73-9.31] |
| 2002 | 1.03 [0.93-1.12] | 1.38 [1.28-1.48] |  | 2.12 [1.98-2.25] | 2.70 [2.55-2.84] |  | 0.36 [0.30-0.42] | 0.78 [0.71-0.85] |  | 0.17 [0.13-0.21] | 0.24 [0.19-0.28] |  | 5.77 [5.55-5.99] | 9.22 [8.95-9.49] |
| 2003 | 0.98 [0.89-1.07] | 1.32 [1.23-1.41] |  | 2.26 [2.13-2.39] | 2.95 [2.81-3.09] |  | 0.36 [0.30-0.42] | 0.74 [0.68-0.80] |  | 0.19 [0.15-0.23] | 0.21 [0.17-0.24] |  | 5.91 [5.7-6.12] | 9.72 [9.46-9.98] |
| 2004 | 1.12 [1.04-1.21] | 1.47 [1.37-1.57] |  | 2.44 [2.31-2.57] | 3.04 [2.90-3.19] |  | 0.40 [0.32-0.49] | 0.86 [0.80-0.92] |  | 0.18 [0.15-0.22] | 0.24 [0.20-0.28] |  | 6.02 [5.82-6.23] | 10.33 [10.07-10.59] |
| 2005 | 1.00 [0.92-1.08] | 1.44 [1.34-1.53] |  | 2.21 [2.09-2.33] | 3.00 [2.86-3.14] |  | 0.40 [0.31-0.49] | 0.94 [0.89-0.99] |  | 0.16 [0.12-0.20] | 0.25 [0.21-0.29] |  | 6.18 [5.98-6.38] | 10.42 [10.15-10.69] |
| 2006 | 0.98 [0.90-1.06] | 1.32 [1.24-1.41] |  | 2.34 [2.22-2.47] | 2.99 [2.85-3.12] |  | 0.43 [0.39-0.46] | 0.89 [0.85-0.94] |  | 0.19 [0.15-0.24] | 0.22 [0.18-0.26] |  | 5.53 [5.33-5.73] | 9.31 [9.07-9.55] |
| 2007 | 1.02 [0.96-1.08] | 1.41 [1.33-1.49] |  | 2.30 [2.19-2.42] | 3.01 [2.89-3.14] |  | 0.41 [0.37-0.44] | 0.92 [0.87-0.97] |  | 0.24 [0.20-0.28] | 0.24 [0.21-0.28] |  | 5.43 [5.33-5.53] | 8.96 [8.74-9.18] |
| 2008 | 1.05 [1.00-1.10] | 1.39 [1.31-1.47] |  | 2.36 [2.25-2.46] | 3.01 [2.90-3.13] |  | 0.41 [0.38-0.45] | 0.94 [0.88-0.97] |  | 0.21 [0.17-0.25] | 0.27 [0.23-0.30] |  | 5.42 [5.33-5.51] | 9.14 [8.93-9.35] |
| 2009 | 1.0 [0.93-1.07] | 1.43 [1.36-1.51] |  | 2.42 [2.32-2.52] | 3.14 [3.03-3.25] |  | 0.44 [0.40-0.47] | 1.06 [1.01-1.11] |  | 0.24 [0.20-0.28] | 0.28 [0.24-0.31] |  | 5.41 [5.30-5.52] | 8.68 [8.49-8.87] |
| 2010 | 0.96 [0.90-1.02] | 1.33 [1.27-1.40] |  | 2.31 [2.22-2.40] | 3.02 [2.92-3.12] |  | 0.49 [0.46-0.54] | 1.08 [1.02-1.13] |  | 0.21 [0.18-0.24] | 0.22 [0.19-0.25] |  | 4.93 [4.85-5.02] | 8.11 [7.94-8.28] |
| 2011 | 0.97 [0.91-1.03] | 1.39 [1.32-1.45] |  | 2.24 [2.16-2.32] | 2.98 [2.88-3.07] |  | 0.48 [0.45-0.52] | 1.09 [1.04-1.15] |  | 0.22 [0.19-0.25] | 0.23 [0.21-0.26] |  | 4.62 [4.56-4.68] | 7.71 [7.55-7.86] |
| 2012 | 0.92 [0.87-0.97] | 1.31 [1.25-1.38] |  | 2.17 [2.09-2.25] | 2.90 [2.81-2.99] |  | 0.47 [0.43-0.51] | 1.07 [1.01-1.12] |  | 0.19 [0.16-0.22] | 0.22 [0.20-0.25] |  | 4.37 [4.29-4.45] | 7.44 [7.29-7.6] |
| 2013 | 0.94 [0.89-0.99] | 1.30 [1.25-1.36] |  | 2.04 [1.97-2.12] | 2.80 [2.71-2.88] |  | 0.46 [0.42-0.50] | 1.07 [1.01-1.12] |  | 0.18 [0.15-0.21] | 0.20 [0.18-0.22] |  | 4.33 [4.20-4.46] | 7.26 [7.12-7.40] |
| 2014 | 0.98 [0.91-1.05] | 1.37 [1.31-1.43] |  | 2.17 [2.09-2.25] | 2.87 [2.78-2.96] |  | 0.46 [0.42-0.50] | 1.04 [0.97-1.10] |  | 0.20 [0.14-0.26] | 0.23 [0.20-0.25] |  | 4.02 [3.92-4.12] | 6.83 [6.7-6.97] |
| 2015 | 0.97 [0.91-1.04] | 1.31 [1.24-1.37] |  | 2.19 [2.10-2.27] | 2.75 [2.66-2.84] |  | 0.49 [0.45-0.54] | 1.09 [1.02-1.16] |  | 0.19 [0.13-0.25] | 0.22 [0.19-0.24] |  | 3.94 [3.83-4.05] | 6.65 [6.51-6.80] |
| 2016 | 0.96 [0.90-1.02] | 1.37 [1.30-1.44] |  | 1.98 [1.89-2.06] | 2.51 [2.42-2.61] |  | 0.50 [0.45-0.55] | 1.04 [0.97-1.11] |  | 0.19 [0.13-0.25] | 0.21 [0.19-0.24] |  | 3.77 [3.63-3.90] | 6.44 [6.27-6.60] |
| 2017 | 0.93 [0.86-0.99] | 1.37 [1.29-1.45] |  | 1.93 [1.83-2.02] | 2.63 [2.52-2.74] |  | 0.42 [0.37-0.47] | 1.04 [0.96-1.12] |  | 0.17 [0.14-0.20] | 0.21 [0.18-0.25] |  | 3.71 [3.57-3.84] | 6.02 [5.84-6.19] |
| AAPC | 1.2 [0.0 to 2.3]\* | 1.0 [0.2 to 1.7]\* |  | 1.1 [0.3 to 1.8]\* | 1.6 [0.8 to 2.3]\* |  | 0.4 [-1.6 to 2.3] | 0.8 [-0.5 to 2.0] |  | -2.5 [-5.1 to 0.1] | 3.6 [1.0 to 6.2]\* |  | -3.2 [-4.0 to -2.4]\* | -3.3 [-5.4 to -1.2]\* |