



*Supplement of*

## **Incidence of chronic osteomyelitis between 2016 and 2022 in a large, multicenter database in the United States**

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**Table S1.** ICD-10 codes for chronic osteomyelitis, including site-specific codes where available

| ICD-10 Code | Osteomyelitis Location                                          |
|-------------|-----------------------------------------------------------------|
| M46.2       | Osteomyelitis of vertebra                                       |
| M46.20      | Osteomyelitis of vertebra, site unspecified                     |
| M46.21      | Osteomyelitis of vertebra, occipito-atlanto-axial region        |
| M46.22      | Osteomyelitis of vertebra, cervical region                      |
| M46.23      | Osteomyelitis of vertebra, cervicothoracic region               |
| M46.24      | Osteomyelitis of vertebra, thoracic region                      |
| M46.25      | Osteomyelitis of vertebra, thoracolumbar region                 |
| M46.26      | Osteomyelitis of vertebra, lumbar region                        |
| M46.27      | Osteomyelitis of vertebra, lumbosacral region                   |
| M46.28      | Osteomyelitis of vertebra, sacral and sacrococcygeal region     |
| M86         | Osteomyelitis                                                   |
| M86.3       | Chronic multifocal osteomyelitis                                |
| M86.30      | Chronic multifocal osteomyelitis, unspecified site              |
| M86.31      | Chronic multifocal osteomyelitis, shoulder                      |
| M86.311     | Chronic multifocal osteomyelitis, right shoulder                |
| M86.312     | Chronic multifocal osteomyelitis, left shoulder                 |
| M86.319     | Chronic multifocal osteomyelitis, unspecified shoulder          |
| M86.32      | Chronic multifocal osteomyelitis, humerus                       |
| M86.321     | Chronic multifocal osteomyelitis, right humerus                 |
| M86.322     | Chronic multifocal osteomyelitis, left humerus                  |
| M86.329     | Chronic multifocal osteomyelitis, unspecified humerus           |
| M86.33      | Chronic multifocal osteomyelitis, radius and ulna               |
| M86.331     | Chronic multifocal osteomyelitis, right radius and ulna         |
| M86.332     | Chronic multifocal osteomyelitis, left radius and ulna          |
| M86.339     | Chronic multifocal osteomyelitis, unspecified radius and ulna   |
| M86.34      | Chronic multifocal osteomyelitis, hand                          |
| M86.341     | Chronic multifocal osteomyelitis, right hand                    |
| M86.342     | Chronic multifocal osteomyelitis, left hand                     |
| M86.349     | Chronic multifocal osteomyelitis, unspecified hand              |
| M86.35      | Chronic multifocal osteomyelitis, femur                         |
| M86.351     | Chronic multifocal osteomyelitis, right femur                   |
| M86.352     | Chronic multifocal osteomyelitis, left femur                    |
| M86.359     | Chronic multifocal osteomyelitis, unspecified femur             |
| M86.36      | Chronic multifocal osteomyelitis, tibia and fibula              |
| M86.361     | Chronic multifocal osteomyelitis, right tibia and fibula        |
| M86.362     | Chronic multifocal osteomyelitis, left tibia and fibula         |
| M86.369     | Chronic multifocal osteomyelitis, unspecified tibia and fibula  |
| M86.37      | Chronic multifocal osteomyelitis, ankle and foot                |
| M86.371     | Chronic multifocal osteomyelitis, right ankle and foot          |
| M86.372     | Chronic multifocal osteomyelitis, left ankle and foot           |
| M86.379     | Chronic multifocal osteomyelitis, unspecified ankle and foot    |
| M86.38      | Chronic multifocal osteomyelitis, other site                    |
| M86.39      | Chronic multifocal osteomyelitis, multiple sites                |
| M86.4       | Chronic osteomyelitis with draining sinus                       |
| M86.40      | Chronic osteomyelitis with draining sinus, unspecified site     |
| M86.41      | Chronic osteomyelitis with draining sinus, shoulder             |
| M86.411     | Chronic osteomyelitis with draining sinus, right shoulder       |
| M86.412     | Chronic osteomyelitis with draining sinus, left shoulder        |
| M86.419     | Chronic osteomyelitis with draining sinus, unspecified shoulder |

|         |                                                                         |
|---------|-------------------------------------------------------------------------|
| M86.42  | Chronic osteomyelitis with draining sinus, humerus                      |
| M86.421 | Chronic osteomyelitis with draining sinus, right humerus                |
| M86.422 | Chronic osteomyelitis with draining sinus, left humerus                 |
| M86.429 | Chronic osteomyelitis with draining sinus, unspecified humerus          |
| M86.43  | Chronic osteomyelitis with draining sinus, radius and ulna              |
| M86.431 | Chronic osteomyelitis with draining sinus, right radius and ulna        |
| M86.432 | Chronic osteomyelitis with draining sinus, left radius and ulna         |
| M86.439 | Chronic osteomyelitis with draining sinus, unspecified radius and ulna  |
| M86.44  | Chronic osteomyelitis with draining sinus, hand                         |
| M86.441 | Chronic osteomyelitis with draining sinus, right hand                   |
| M86.442 | Chronic osteomyelitis with draining sinus, left hand                    |
| M86.449 | Chronic osteomyelitis with draining sinus, unspecified hand             |
| M86.45  | Chronic osteomyelitis with draining sinus, femur                        |
| M86.451 | Chronic osteomyelitis with draining sinus, right femur                  |
| M86.452 | Chronic osteomyelitis with draining sinus, left femur                   |
| M86.459 | Chronic osteomyelitis with draining sinus, unspecified femur            |
| M86.46  | Chronic osteomyelitis with draining sinus, tibia and fibula             |
| M86.461 | Chronic osteomyelitis with draining sinus, right tibia and fibula       |
| M86.462 | Chronic osteomyelitis with draining sinus, left tibia and fibula        |
| M86.469 | Chronic osteomyelitis with draining sinus, unspecified tibia and fibula |
| M86.47  | Chronic osteomyelitis with draining sinus, ankle and foot               |
| M86.471 | Chronic osteomyelitis with draining sinus, right ankle and foot         |
| M86.472 | Chronic osteomyelitis with draining sinus, left ankle and foot          |
| M86.479 | Chronic osteomyelitis with draining sinus, unspecified ankle and foot   |
| M86.48  | Chronic osteomyelitis with draining sinus, other site                   |
| M86.49  | Chronic osteomyelitis with draining sinus, multiple sites               |
| M86.5   | Other chronic hematogenous osteomyelitis                                |
| M86.50  | Other chronic hematogenous osteomyelitis, unspecified site              |
| M86.51  | Other chronic hematogenous osteomyelitis, shoulder                      |
| M86.511 | Other chronic hematogenous osteomyelitis, right shoulder                |
| M86.512 | Other chronic hematogenous osteomyelitis, left shoulder                 |
| M86.519 | Other chronic hematogenous osteomyelitis, unspecified shoulder          |
| M86.52  | Other chronic hematogenous osteomyelitis, humerus                       |
| M86.521 | Other chronic hematogenous osteomyelitis, right humerus                 |
| M86.522 | Other chronic hematogenous osteomyelitis, left humerus                  |
| M86.529 | Other chronic hematogenous osteomyelitis, unspecified humerus           |
| M86.53  | Other chronic hematogenous osteomyelitis, radius and ulna               |
| M86.531 | Other chronic hematogenous osteomyelitis, right radius and ulna         |
| M86.532 | Other chronic hematogenous osteomyelitis, left radius and ulna          |
| M86.539 | Other chronic hematogenous osteomyelitis, unspecified radius and ulna   |
| M86.54  | Other chronic hematogenous osteomyelitis, hand                          |
| M86.541 | Other chronic hematogenous osteomyelitis, right hand                    |
| M86.542 | Other chronic hematogenous osteomyelitis, left hand                     |
| M86.549 | Other chronic hematogenous osteomyelitis, unspecified hand              |
| M86.55  | Other chronic hematogenous osteomyelitis, femur                         |
| M86.551 | Other chronic hematogenous osteomyelitis, right femur                   |
| M86.552 | Other chronic hematogenous osteomyelitis, left femur                    |
| M86.559 | Other chronic hematogenous osteomyelitis, unspecified femur             |
| M86.56  | Other chronic hematogenous osteomyelitis, tibia and fibula              |
| M86.561 | Other chronic hematogenous osteomyelitis, right tibia and fibula        |

|         |                                                                        |
|---------|------------------------------------------------------------------------|
| M86.562 | Other chronic hematogenous osteomyelitis, left tibia and fibula        |
| M86.569 | Other chronic hematogenous osteomyelitis, unspecified tibia and fibula |
| M86.57  | Other chronic hematogenous osteomyelitis, ankle and foot               |
| M86.571 | Other chronic hematogenous osteomyelitis, right ankle and foot         |
| M86.572 | Other chronic hematogenous osteomyelitis, left ankle and foot          |
| M86.579 | Other chronic hematogenous osteomyelitis, unspecified ankle and foot   |
| M86.58  | Other chronic hematogenous osteomyelitis, other site                   |
| M86.59  | Other chronic hematogenous osteomyelitis, multiple sites               |
| M86.6   | Other chronic osteomyelitis                                            |
| M86.60  | Other chronic osteomyelitis, unspecified site                          |
| M86.61  | Other chronic osteomyelitis, shoulder                                  |
| M86.611 | Other chronic osteomyelitis, right shoulder                            |
| M86.612 | Other chronic osteomyelitis, left shoulder                             |
| M86.619 | Other chronic osteomyelitis, unspecified shoulder                      |
| M86.62  | Other chronic osteomyelitis, humerus                                   |
| M86.621 | Other chronic osteomyelitis, right humerus                             |
| M86.622 | Other chronic osteomyelitis, left humerus                              |
| M86.629 | Other chronic osteomyelitis, unspecified humerus                       |
| M86.63  | Other chronic osteomyelitis, radius and ulna                           |
| M86.631 | Other chronic osteomyelitis, right radius and ulna                     |
| M86.632 | Other chronic osteomyelitis, left radius and ulna                      |
| M86.639 | Other chronic osteomyelitis, unspecified radius and ulna               |
| M86.64  | Other chronic osteomyelitis, hand                                      |
| M86.641 | Other chronic osteomyelitis, right hand                                |
| M86.642 | Other chronic osteomyelitis, left hand                                 |
| M86.649 | Other chronic osteomyelitis, unspecified hand                          |
| M86.65  | Other chronic osteomyelitis, thigh                                     |
| M86.651 | Other chronic osteomyelitis, right thigh                               |
| M86.652 | Other chronic osteomyelitis, left thigh                                |
| M86.659 | Other chronic osteomyelitis, unspecified thigh                         |
| M86.66  | Other chronic osteomyelitis, tibia and fibula                          |
| M86.661 | Other chronic osteomyelitis, right tibia and fibula                    |
| M86.662 | Other chronic osteomyelitis, left tibia and fibula                     |
| M86.669 | Other chronic osteomyelitis, unspecified tibia and fibula              |
| M86.67  | Other chronic osteomyelitis, ankle and foot                            |
| M86.671 | Other chronic osteomyelitis, right ankle and foot                      |
| M86.672 | Other chronic osteomyelitis, left ankle and foot                       |
| M86.679 | Other chronic osteomyelitis, unspecified ankle and foot                |
| M86.68  | Other chronic osteomyelitis, other site                                |
| M86.69  | Other chronic osteomyelitis, multiple sites                            |

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**Table S2.** ICD-10 codes for comorbidities

| <b>Comorbidities</b><br>(Present before or at the time of the chronic osteomyelitis diagnosis) | <b>ICD-10</b>         |
|------------------------------------------------------------------------------------------------|-----------------------|
| Diabetes                                                                                       | E08-E13               |
| Hypertension                                                                                   | I10-I15, I10-I16      |
| Cardiovascular disease                                                                         | I25, I30-I52, I30-I5A |
| Chronic kidney disease                                                                         | N18                   |
| Chronic liver disease                                                                          | K70-K77               |
| Chronic lung disease                                                                           | J40-J47               |
| Chronic neurological disease                                                                   | G00-G99               |
| Cerebrovascular disease                                                                        | I60-I69               |

**Table S3.** TriNetX database demographics (2016-2022)

| Variable         | Level     | Year                   |                        |                        |                        |                        |                        |                        |
|------------------|-----------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
|                  |           | 2016<br>(N=15,575,415) | 2017<br>(N=18,808,608) | 2018<br>(N=20,422,238) | 2019<br>(N=21,799,357) | 2020<br>(N=21,446,659) | 2021<br>(N=24,758,867) | 2022<br>(N=23,693,165) |
| <b>HCOs*, N</b>  |           | 76                     | 78                     | 79                     | 80                     | 80                     | 82                     | 81                     |
| <b>Age, n</b>    | 18-29     | 2,448,745              | 2,920,914              | 3,178,664              | 3,415,130              | 3,349,390              | 3,885,752              | 3,571,597              |
|                  | 30-39     | 1,969,314              | 2,446,259              | 2,800,424              | 2,955,984              | 3,043,667              | 3,564,530              | 3,360,604              |
|                  | 40-49     | 1,968,220              | 2,416,866              | 2,662,778              | 2,901,723              | 2,923,525              | 3,453,608              | 3,326,500              |
|                  | 50-59     | 2,185,018              | 2,669,533              | 2,927,186              | 3,195,967              | 3,213,750              | 3,784,067              | 3,675,172              |
|                  | 60-69     | 2,658,018              | 3,206,627              | 3,461,252              | 3,759,502              | 3,707,611              | 4,346,574              | 4,297,086              |
|                  | 70-79     | 2,306,652              | 2,794,671              | 3,009,381              | 3,209,568              | 3,065,460              | 3,502,930              | 3,401,791              |
|                  | 80+       | 2,039,450              | 2,353,738              | 2,382,551              | 2,361,486              | 2,143,257              | 2,221,406              | 2,060,415              |
| <b>Sex, n</b>    | Female    | 8,816,847              | 10,680,681             | 11,556,595             | 12,333,601             | 12,038,733             | 13,781,884             | 13,405,962             |
|                  | Male      | 6,441,959              | 7,763,927              | 8,383,471              | 8,945,902              | 8,893,109              | 10,288,308             | 9,624,018              |
| <b>Region, n</b> | Midwest   | 3,281,508              | 3,281,290              | 3,308,014              | 3,411,562              | 3,396,383              | 3,337,140              | 3,184,944              |
|                  | Northeast | 4,031,349              | 4,512,482              | 5,429,227              | 5,666,553              | 5,468,295              | 6,628,510              | 6,442,033              |
|                  | South     | 5,443,446              | 5,960,537              | 6,710,174              | 7,197,905              | 7,266,021              | 8,860,510              | 8,553,715              |
|                  | West      | 2,173,957              | 2,360,007              | 2,604,250              | 2,768,608              | 3,080,496              | 3,291,240              | 2,732,383              |

\* HCOs: healthcare organizations

**Table S4.** Overall, age-, and sex-specific COM incidence among all adult patients recorded in the TriNetX database (2016-2022)

| Variable | Level  | 2016       |        |       | 2017       |        |       | 2018       |        |       | 2019       |        |       | 2020       |        |       | 2021       |        |       | 2022       |        |       | P** (Test for Trend) |
|----------|--------|------------|--------|-------|------------|--------|-------|------------|--------|-------|------------|--------|-------|------------|--------|-------|------------|--------|-------|------------|--------|-------|----------------------|
|          |        | Incidence* | 95% CI |       | Incidence* | 95% CI |       | Incidence* | 95% CI |       | Incidence* | 95% CI |       | Incidence* | 95% CI |       | Incidence* | 95% CI |       | Incidence* | 95% CI |       |                      |
|          |        |            | Lower  | Upper |            | Lower  | Upper |            | Lower  | Upper |            | Lower  | Upper |            | Lower  | Upper |            | Lower  | Upper |            | Lower  | Upper |                      |
| Overall  |        | 0.66       | 0.651  | 0.676 | 0.7        | 0.69   | 0.714 | 0.72       | 0.711  | 0.734 | 0.72       | 0.708  | 0.73  | 0.64       | 0.628  | 0.65  | 0.61       | 0.598  | 0.618 | 0.44       | 0.436  | 0.453 | 0.83                 |
| Age      | 18-29  | 0.22       | 0.203  | 0.24  | 0.21       | 0.196  | 0.23  | 0.22       | 0.201  | 0.233 | 0.2        | 0.182  | 0.211 | 0.18       | 0.165  | 0.194 | 0.15       | 0.14   | 0.164 | 0.1        | 0.094  | 0.115 | 0.82                 |
|          | 30-39  | 0.5        | 0.467  | 0.529 | 0.45       | 0.421  | 0.474 | 0.46       | 0.438  | 0.489 | 0.42       | 0.395  | 0.442 | 0.36       | 0.343  | 0.386 | 0.35       | 0.331  | 0.37  | 0.25       | 0.228  | 0.262 | 0.75                 |
|          | 40-49  | 0.78       | 0.741  | 0.819 | 0.74       | 0.71   | 0.778 | 0.76       | 0.722  | 0.788 | 0.7        | 0.672  | 0.733 | 0.59       | 0.566  | 0.622 | 0.56       | 0.531  | 0.581 | 0.42       | 0.394  | 0.438 | 0.71                 |
|          | 50-59  | 1.15       | 1.105  | 1.195 | 1.24       | 1.2    | 1.284 | 1.16       | 1.126  | 1.204 | 1.14       | 1.103  | 1.177 | 0.95       | 0.918  | 0.986 | 0.85       | 0.82   | 0.879 | 0.6        | 0.576  | 0.626 | 0.62                 |
|          | 60-69  | 0.98       | 0.979  | 1.017 | 1.08       | 1.041  | 1.113 | 1.13       | 1.09   | 1.16  | 1.1        | 1.065  | 1.132 | 1.01       | 0.977  | 1.042 | 0.94       | 0.914  | 0.971 | 0.66       | 0.634  | 0.682 | 0.8                  |
|          | 70-79  | 0.69       | 0.66   | 0.728 | 0.77       | 0.738  | 0.804 | 0.83       | 0.793  | 0.858 | 0.88       | 0.844  | 0.908 | 0.79       | 0.757  | 0.821 | 0.8        | 0.771  | 0.831 | 0.59       | 0.561  | 0.612 | 0.95                 |
|          | 80+    | 0.27       | 0.249  | 0.29  | 0.32       | 0.301  | 0.347 | 0.41       | 0.385  | 0.437 | 0.49       | 0.462  | 0.519 | 0.49       | 0.458  | 0.517 | 0.53       | 0.5    | 0.56  | 0.44       | 0.414  | 0.471 | 0.77                 |
| Sex      | Female | 0.43       | 0.421  | 0.448 | 0.45       | 0.432  | 0.458 | 0.45       | 0.439  | 0.464 | 0.46       | 0.45   | 0.474 | 0.4        | 0.388  | 0.411 | 0.39       | 0.382  | 0.403 | 0.28       | 0.267  | 0.285 | 0.85                 |
|          | Male   | 1.01       | 0.985  | 1.034 | 1.09       | 1.065  | 1.112 | 1.14       | 1.117  | 1.162 | 1.12       | 1.095  | 1.139 | 1          | 0.98   | 1.022 | 0.94       | 0.919  | 0.956 | 0.71       | 0.692  | 0.725 | 0.8                  |

\* Incidence / 1000 adult patients recorded in the TriNetX database per year

\*\* P values for incidence trend of COM / 1000 adult patients recorded in the TriNetX database per year (2016-2022)

**Table S5.** Sex-specific and anatomic site-specific COM incidence (2016-2022)

| Sex     | Year | Lower extremity |            |        |       | Upper extremity |            |        |       | Vertebral column |            |        |       | Other sites |            |        |       |
|---------|------|-----------------|------------|--------|-------|-----------------|------------|--------|-------|------------------|------------|--------|-------|-------------|------------|--------|-------|
|         |      | n               | Incidence* | 95% CI |       | n               | Incidence* | 95% CI |       | n                | Incidence* | 95% CI |       | n           | Incidence* | 95% CI |       |
|         |      |                 |            | Lower  | Upper |                 |            | Lower  | Upper |                  |            | Lower  | Upper |             |            | Lower  | Upper |
| Females | 2016 | 1536            | 0.17       | 0.166  | 0.18  | 221             | 0.025      | 0.022  | 0.028 | 1371             | 0.16       | 0.15   | 0.16  | 702         | 0.08       | 0.074  | 0.086 |
|         | 2017 | 1870            | 0.18       | 0.167  | 0.18  | 222             | 0.02       | 0.018  | 0.024 | 1818             | 0.17       | 0.16   | 0.18  | 845         | 0.08       | 0.074  | 0.084 |
|         | 2018 | 2119            | 0.18       | 0.176  | 0.19  | 230             | 0.02       | 0.017  | 0.022 | 1970             | 0.17       | 0.16   | 0.18  | 898         | 0.08       | 0.073  | 0.083 |
|         | 2019 | 2265            | 0.18       | 0.176  | 0.19  | 296             | 0.024      | 0.021  | 0.027 | 2123             | 0.17       | 0.16   | 0.18  | 1018        | 0.08       | 0.077  | 0.088 |
|         | 2020 | 1788            | 0.15       | 0.142  | 0.16  | 213             | 0.018      | 0.015  | 0.02  | 1934             | 0.16       | 0.15   | 0.17  | 872         | 0.07       | 0.068  | 0.077 |
|         | 2021 | 1939            | 0.14       | 0.134  | 0.15  | 245             | 0.018      | 0.016  | 0.02  | 2287             | 0.17       | 0.16   | 0.17  | 946         | 0.07       | 0.064  | 0.073 |
|         | 2022 | 1355            | 0.1        | 0.096  | 0.11  | 159             | 0.012      | 0.01   | 0.014 | 1536             | 0.11       | 0.11   | 0.12  | 661         | 0.05       | 0.046  | 0.053 |
| Males   | 2016 | 3143            | 0.49       | 0.47   | 0.5   | 306             | 0.048      | 0.042  | 0.053 | 2046             | 0.32       | 0.3    | 0.33  | 1009        | 0.16       | 0.15   | 0.17  |
|         | 2017 | 4274            | 0.55       | 0.53   | 0.57  | 381             | 0.05       | 0.044  | 0.054 | 2500             | 0.32       | 0.31   | 0.33  | 1297        | 0.17       | 0.16   | 0.18  |
|         | 2018 | 4858            | 0.58       | 0.56   | 0.6   | 399             | 0.048      | 0.043  | 0.052 | 2964             | 0.35       | 0.34   | 0.37  | 1331        | 0.16       | 0.15   | 0.17  |
|         | 2019 | 4830            | 0.54       | 0.52   | 0.56  | 444             | 0.05       | 0.045  | 0.054 | 3051             | 0.34       | 0.33   | 0.35  | 1671        | 0.19       | 0.18   | 0.2   |
|         | 2020 | 4240            | 0.48       | 0.46   | 0.49  | 360             | 0.04       | 0.036  | 0.045 | 2933             | 0.33       | 0.32   | 0.34  | 1374        | 0.15       | 0.15   | 0.16  |
|         | 2021 | 4421            | 0.43       | 0.42   | 0.44  | 375             | 0.036      | 0.033  | 0.04  | 3277             | 0.32       | 0.31   | 0.33  | 1575        | 0.15       | 0.15   | 0.16  |
|         | 2022 | 3236            | 0.34       | 0.32   | 0.35  | 283             | 0.029      | 0.026  | 0.033 | 2183             | 0.23       | 0.22   | 0.24  | 1120        | 0.12       | 0.11   | 0.12  |

\* Incidence / 1000 (females/ males) adult patients recorded in the TriNetX database per year

Table S6. Age-specific and anatomic site-specific COM incidence (2016-2022)

| Site             | Year | 18-29 |            |        |       | 30-39 |            |        |       | 40-49 |            |        |       | 50-59 |            |        |       | 60-69 |            |        |       | 70-79 |            |        |       | 80+ |            |        |       |
|------------------|------|-------|------------|--------|-------|-------|------------|--------|-------|-------|------------|--------|-------|-------|------------|--------|-------|-------|------------|--------|-------|-------|------------|--------|-------|-----|------------|--------|-------|
|                  |      | n     | Incidence* | 95% CI |       | n     | Incidence* | 95% CI |       | n     | Incidence* | 95% CI |       | n     | Incidence* | 95% CI |       | n     | Incidence* | 95% CI |       | n     | Incidence* | 95% CI |       | n   | Incidence* | 95% CI |       |
|                  |      |       |            | Lower  | Upper |       |            | Lower  | Upper |       |            | Lower  | Upper |       |            | Lower  | Upper |       |            | Lower  | Upper |       |            | Lower  | Upper |     |            | Lower  | Upper |
| Lower extremity  | 2016 | 194   | 0.08       | 0.068  | 0.09  | 395   | 0.2        | 0.181  | 0.22  | 722   | 0.37       | 0.34   | 0.39  | 1212  | 0.55       | 0.52   | 0.59  | 1200  | 0.45       | 0.43   | 0.48  | 711   | 0.31       | 0.29   | 0.33  | 245 | 0.12       | 0.11   | 0.14  |
|                  | 2017 | 205   | 0.07       | 0.061  | 0.08  | 439   | 0.18       | 0.163  | 0.2   | 850   | 0.35       | 0.33   | 0.38  | 1694  | 0.63       | 0.6    | 0.66  | 1663  | 0.52       | 0.49   | 0.54  | 941   | 0.34       | 0.32   | 0.36  | 352 | 0.15       | 0.13   | 0.17  |
|                  | 2018 | 225   | 0.07       | 0.062  | 0.08  | 518   | 0.19       | 0.169  | 0.2   | 964   | 0.36       | 0.34   | 0.38  | 1775  | 0.61       | 0.58   | 0.63  | 1958  | 0.57       | 0.54   | 0.59  | 1092  | 0.36       | 0.34   | 0.38  | 445 | 0.19       | 0.17   | 0.2   |
|                  | 2019 | 227   | 0.07       | 0.058  | 0.075 | 502   | 0.17       | 0.155  | 0.18  | 925   | 0.32       | 0.3    | 0.34  | 1794  | 0.56       | 0.54   | 0.59  | 1962  | 0.52       | 0.5    | 0.54  | 1169  | 0.36       | 0.34   | 0.39  | 516 | 0.22       | 0.2    | 0.24  |
|                  | 2020 | 191   | 0.06       | 0.049  | 0.065 | 411   | 0.14       | 0.122  | 0.15  | 765   | 0.26       | 0.24   | 0.28  | 1446  | 0.45       | 0.43   | 0.47  | 1765  | 0.48       | 0.45   | 0.5   | 1007  | 0.33       | 0.31   | 0.35  | 444 | 0.21       | 0.19   | 0.23  |
|                  | 2021 | 167   | 0.04       | 0.036  | 0.049 | 460   | 0.13       | 0.117  | 0.14  | 810   | 0.23       | 0.22   | 0.25  | 1457  | 0.39       | 0.37   | 0.4   | 1881  | 0.43       | 0.41   | 0.45  | 1083  | 0.31       | 0.29   | 0.33  | 502 | 0.23       | 0.21   | 0.25  |
|                  | 2022 | 151   | 0.04       | 0.036  | 0.049 | 314   | 0.09       | 0.083  | 0.1   | 627   | 0.19       | 0.17   | 0.2   | 1025  | 0.28       | 0.26   | 0.3   | 1293  | 0.3        | 0.28   | 0.32  | 818   | 0.24       | 0.22   | 0.26  | 363 | 0.18       | 0.16   | 0.19  |
| Upper extremity  | 2016 | 50    | 0.02       | 0.015  | 0.026 | 60    | 0.03       | 0.023  | 0.038 | 82    | 0.04       | 0.033  | 0.051 | 115   | 0.05       | 0.043  | 0.062 | 120   | 0.05       | 0.037  | 0.053 | 78    | 0.03       | 0.026  | 0.041 | 22  | 0.01       | 0.006  | 0.02  |
|                  | 2017 | 62    | 0.02       | 0.016  | 0.027 | 72    | 0.03       | 0.023  | 0.036 | 97    | 0.04       | 0.032  | 0.048 | 139   | 0.05       | 0.043  | 0.061 | 131   | 0.04       | 0.034  | 0.048 | 77    | 0.03       | 0.021  | 0.034 | 25  | 0.01       | 0.007  | 0.02  |
|                  | 2018 | 57    | 0.02       | 0.013  | 0.023 | 101   | 0.04       | 0.029  | 0.043 | 90    | 0.03       | 0.027  | 0.041 | 137   | 0.05       | 0.039  | 0.055 | 156   | 0.05       | 0.04   | 0.052 | 67    | 0.02       | 0.017  | 0.028 | 22  | 0.01       | 0.005  | 0.013 |
|                  | 2019 | 64    | 0.02       | 0.014  | 0.023 | 84    | 0.03       | 0.022  | 0.034 | 105   | 0.04       | 0.029  | 0.043 | 182   | 0.06       | 0.049  | 0.065 | 170   | 0.05       | 0.04   | 0.052 | 100   | 0.03       | 0.025  | 0.037 | 35  | 0.01       | 0.01   | 0.02  |
|                  | 2020 | 49    | 0.01       | 0.011  | 0.019 | 80    | 0.03       | 0.021  | 0.032 | 83    | 0.03       | 0.022  | 0.034 | 126   | 0.04       | 0.032  | 0.046 | 139   | 0.04       | 0.03   | 0.044 | 70    | 0.02       | 0.017  | 0.028 | 26  | 0.01       | 0.008  | 0.017 |
|                  | 2021 | 53    | 0.01       | 0.01   | 0.017 | 80    | 0.02       | 0.018  | 0.027 | 78    | 0.02       | 0.018  | 0.028 | 139   | 0.04       | 0.031  | 0.043 | 149   | 0.03       | 0.029  | 0.04  | 86    | 0.03       | 0.019  | 0.03  | 35  | 0.02       | 0.011  | 0.021 |
|                  | 2022 | 28    | 0.01       | 0.005  | 0.011 | 56    | 0.02       | 0.012  | 0.021 | 63    | 0.02       | 0.014  | 0.024 | 114   | 0.03       | 0.025  | 0.037 | 116   | 0.03       | 0.02   | 0.032 | 52    | 0.02       | 0.011  | 0.019 | 13  | 0.01       | 0.003  | 0.01  |
| Vertebral column | 2016 | 155   | 0.06       | 0.053  | 0.073 | 349   | 0.18       | 0.159  | 0.196 | 499   | 0.25       | 0.23   | 0.28  | 802   | 0.37       | 0.34   | 0.39  | 872   | 0.33       | 0.31   | 0.35  | 559   | 0.24       | 0.22   | 0.26  | 181 | 0.09       | 0.076  | 0.1   |
|                  | 2017 | 211   | 0.07       | 0.062  | 0.082 | 387   | 0.16       | 0.142  | 0.174 | 584   | 0.24       | 0.22   | 0.26  | 978   | 0.37       | 0.34   | 0.39  | 1132  | 0.35       | 0.33   | 0.37  | 777   | 0.28       | 0.26   | 0.3   | 249 | 0.11       | 0.093  | 0.12  |
|                  | 2018 | 237   | 0.08       | 0.065  | 0.084 | 473   | 0.17       | 0.154  | 0.184 | 684   | 0.26       | 0.24   | 0.28  | 1015  | 0.35       | 0.33   | 0.37  | 1218  | 0.35       | 0.33   | 0.37  | 962   | 0.32       | 0.3    | 0.34  | 345 | 0.15       | 0.13   | 0.16  |
|                  | 2019 | 207   | 0.06       | 0.052  | 0.069 | 432   | 0.15       | 0.132  | 0.16  | 664   | 0.23       | 0.21   | 0.25  | 1055  | 0.33       | 0.31   | 0.35  | 1333  | 0.35       | 0.34   | 0.37  | 1060  | 0.33       | 0.31   | 0.35  | 423 | 0.18       | 0.162  | 0.2   |
|                  | 2020 | 200   | 0.06       | 0.051  | 0.068 | 419   | 0.14       | 0.124  | 0.151 | 600   | 0.21       | 0.19   | 0.22  | 1010  | 0.31       | 0.29   | 0.33  | 1280  | 0.35       | 0.33   | 0.36  | 963   | 0.31       | 0.29   | 0.33  | 395 | 0.18       | 0.166  | 0.2   |
|                  | 2021 | 220   | 0.06       | 0.049  | 0.064 | 462   | 0.13       | 0.118  | 0.141 | 703   | 0.2        | 0.19   | 0.22  | 1123  | 0.3        | 0.28   | 0.31  | 1436  | 0.33       | 0.31   | 0.35  | 1166  | 0.33       | 0.31   | 0.35  | 454 | 0.2        | 0.186  | 0.22  |
|                  | 2022 | 82    | 0.02       | 0.018  | 0.028 | 286   | 0.09       | 0.075  | 0.095 | 474   | 0.14       | 0.13   | 0.16  | 734   | 0.2        | 0.19   | 0.21  | 974   | 0.23       | 0.21   | 0.24  | 801   | 0.24       | 0.22   | 0.25  | 369 | 0.18       | 0.161  | 0.2   |
| Other sites      | 2016 | 144   | 0.06       | 0.049  | 0.068 | 178   | 0.09       | 0.077  | 0.104 | 233   | 0.12       | 0.103  | 0.134 | 384   | 0.18       | 0.158  | 0.19  | 412   | 0.16       | 0.14   | 0.17  | 253   | 0.11       | 0.096  | 0.12  | 107 | 0.05       | 0.043  | 0.062 |
|                  | 2017 | 146   | 0.05       | 0.042  | 0.058 | 198   | 0.08       | 0.07   | 0.092 | 268   | 0.11       | 0.098  | 0.124 | 504   | 0.19       | 0.172  | 0.21  | 528   | 0.16       | 0.151  | 0.18  | 361   | 0.13       | 0.116  | 0.14  | 137 | 0.06       | 0.048  | 0.068 |
|                  | 2018 | 171   | 0.05       | 0.046  | 0.062 | 207   | 0.07       | 0.064  | 0.084 | 273   | 0.1        | 0.09   | 0.115 | 482   | 0.17       | 0.15   | 0.18  | 563   | 0.16       | 0.149  | 0.18  | 365   | 0.12       | 0.109  | 0.13  | 168 | 0.07       | 0.06   | 0.081 |
|                  | 2019 | 173   | 0.05       | 0.043  | 0.058 | 221   | 0.08       | 0.065  | 0.085 | 347   | 0.12       | 0.107  | 0.132 | 613   | 0.19       | 0.177  | 0.21  | 666   | 0.18       | 0.164  | 0.19  | 484   | 0.15       | 0.137  | 0.16  | 185 | 0.08       | 0.067  | 0.09  |
|                  | 2020 | 161   | 0.05       | 0.041  | 0.055 | 200   | 0.07       | 0.057  | 0.075 | 289   | 0.1        | 0.087  | 0.11  | 479   | 0.15       | 0.136  | 0.16  | 558   | 0.15       | 0.138  | 0.16  | 379   | 0.12       | 0.111  | 0.14  | 181 | 0.08       | 0.072  | 0.097 |
|                  | 2021 | 152   | 0.04       | 0.033  | 0.045 | 248   | 0.07       | 0.061  | 0.078 | 331   | 0.1        | 0.086  | 0.106 | 499   | 0.13       | 0.12   | 0.14  | 632   | 0.15       | 0.134  | 0.16  | 472   | 0.14       | 0.123  | 0.15  | 187 | 0.08       | 0.072  | 0.096 |
|                  | 2022 | 113   | 0.03       | 0.026  | 0.037 | 169   | 0.05       | 0.043  | 0.058 | 221   | 0.07       | 0.058  | 0.075 | 338   | 0.09       | 0.082  | 0.1   | 447   | 0.1        | 0.094  | 0.11  | 325   | 0.1        | 0.085  | 0.11  | 168 | 0.08       | 0.069  | 0.094 |

\* Incidence / 1000 adult patients of a specific age group recorded in the TriNetX database per year