| **Characteristic** | **N** | **Overall**, N = 247,546*1* | **exposed**, N = 43,906*1* | **historical**, N = 40,957*1* | **unexposed**, N = 162,683*1* |
| --- | --- | --- | --- | --- | --- |
| female | 247,546 | 154,086 (62%) | 28,731 (65%) | 26,119 (64%) | 99,236 (61%) |
| age | 247,546 | 51.8 (18.9) | 48.7 (18.4) | 48.6 (18.4) | 53.5 (19.0) |
| nhwhite | 247,546 | 127,686 (51.6%) | 19,386 (44.2%) | 20,848 (50.9%) | 87,452 (53.8%) |
| nhblack | 247,546 | 52,918 (21.4%) | 11,657 (26.5%) | 9,098 (22.2%) | 32,163 (19.8%) |
| hispanic | 247,546 | 52,946 (21.4%) | 10,497 (23.9%) | 8,694 (21.2%) | 33,755 (20.7%) |
| nhother | 247,546 | 13,945 (5.6%) | 2,336 (5.3%) | 2,316 (5.7%) | 9,293 (5.7%) |
| smoking | 247,546 | 116,243 (47%) | 18,462 (42%) | 20,164 (49%) | 77,617 (48%) |
| site | 215,585 |  |  |  |  |
| Source1 |  | 91,231 (42%) | 15,169 (35%) | 15,249 (37%) | 60,813 (46%) |
| Source2 |  | 51,291 (24%) | 8,154 (19%) | 11,225 (27%) | 31,912 (24%) |
| Source3 |  | 24,355 (11%) | 5,375 (12%) | 3,663 (8.9%) | 15,317 (12%) |
| Source4 |  | 19,019 (8.8%) | 6,145 (14%) | 3,927 (9.6%) | 8,947 (6.8%) |
| Source5 |  | 12,087 (5.6%) | 2,767 (6.4%) | 4,698 (11%) | 4,622 (3.5%) |
| Source6 |  | 983 (0.5%) | 185 (0.4%) | 262 (0.6%) | 536 (0.4%) |
| Source7 |  | 16,619 (7.7%) | 5,240 (12%) | 1,933 (4.7%) | 9,446 (7.2%) |
| Missing |  | 31,961 | 871 | 0 | 31,090 |
| payer\_type\_primary | 215,585 |  |  |  |  |
| Bluecross |  | 27,962 (13%) | 5,149 (12%) | 6,163 (15%) | 16,650 (13%) |
| Government |  | 5,255 (2.4%) | 1,236 (2.9%) | 723 (1.8%) | 3,296 (2.5%) |
| Medicaid |  | 17,930 (8.3%) | 3,305 (7.7%) | 3,563 (8.7%) | 11,062 (8.4%) |
| Medicare |  | 38,064 (18%) | 5,639 (13%) | 7,759 (19%) | 24,666 (19%) |
| No Information |  | 51,138 (24%) | 9,240 (21%) | 5,742 (14%) | 36,156 (27%) |
| No Insurance |  | 4,168 (1.9%) | 567 (1.3%) | 1,729 (4.2%) | 1,872 (1.4%) |
| Private or Other |  | 71,068 (33%) | 17,899 (42%) | 15,278 (37%) | 37,891 (29%) |
| Missing |  | 31,961 | 871 | 0 | 31,090 |
| payer\_type\_secondary | 215,585 |  |  |  |  |
| Bluecross |  | 3,075 (1.4%) | 376 (0.9%) | 585 (1.4%) | 2,114 (1.6%) |
| Government |  | 2,060 (1.0%) | 276 (0.6%) | 355 (0.9%) | 1,429 (1.1%) |
| Medicaid |  | 8,689 (4.0%) | 1,906 (4.4%) | 1,111 (2.7%) | 5,672 (4.3%) |
| Medicare |  | 1,668 (0.8%) | 383 (0.9%) | 286 (0.7%) | 999 (0.8%) |
| No Information |  | 163,435 (76%) | 31,999 (74%) | 32,919 (80%) | 98,517 (75%) |
| No Insurance |  | 11,223 (5.2%) | 1,616 (3.8%) | 3,566 (8.7%) | 6,041 (4.6%) |
| Private or Other |  | 25,435 (12%) | 6,479 (15%) | 2,135 (5.2%) | 16,821 (13%) |
| Missing |  | 31,961 | 871 | 0 | 31,090 |
| hospitalization | 247,546 | 64,880 (26%) | 12,069 (27%) | 3,005 (7.3%) | 49,806 (31%) |
| p\_hyperglycemia | 94,478 | 2,808 (3.0%) | 539 (3.5%) | 0 (0%) | 2,269 (3.2%) |
| Missing |  | 153,068 | 28,775 | 32,289 | 92,004 |
| bmi | 247,546 | 29.4 (7.4) | 30.5 (7.7) | 29.0 (7.2) | 29.3 (7.3) |
| HT | 246,108 | 66.2 (4.0) | 66.1 (4.0) | 66.1 (4.0) | 66.2 (4.1) |
| Missing |  | 1,438 | 360 | 109 | 969 |
| SYSTOLIC | 217,258 | 125.7 (18.6) | 125.0 (17.8) | 125.7 (17.9) | 125.9 (18.9) |
| Missing |  | 30,288 | 7,813 | 3,114 | 19,361 |
| obesity | 247,546 | 9,979 (4.0%) | 2,222 (5.1%) | 1,859 (4.5%) | 5,898 (3.6%) |
| cardiovascular | 247,546 | 12,238 (4.9%) | 2,127 (4.8%) | 2,411 (5.9%) | 7,700 (4.7%) |
| cerebrovascular | 247,546 | 536 (0.2%) | 103 (0.2%) | 135 (0.3%) | 298 (0.2%) |
| hypertension | 247,546 | 23,402 (9.5%) | 4,162 (9.5%) | 5,009 (12%) | 14,231 (8.7%) |
| pulmonary | 247,546 | 7,370 (3.0%) | 1,491 (3.4%) | 1,209 (3.0%) | 4,670 (2.9%) |
| hyperlipidemia | 247,546 | 18,191 (7.3%) | 3,578 (8.1%) | 3,768 (9.2%) | 10,845 (6.7%) |
| antidepressants | 247,546 | 31,805 (13%) | 5,887 (13%) | 5,179 (13%) | 20,739 (13%) |
| antipsychotics | 247,546 | 10,869 (4.4%) | 2,192 (5.0%) | 1,566 (3.8%) | 7,111 (4.4%) |
| antihypertensives | 247,546 | 67,675 (27%) | 12,244 (28%) | 9,420 (23%) | 46,011 (28%) |
| statins | 247,546 | 31,508 (13%) | 5,556 (13%) | 4,003 (9.8%) | 21,949 (13%) |
| immunosuppresants | 247,546 | 22,143 (8.9%) | 4,661 (11%) | 2,958 (7.2%) | 14,524 (8.9%) |
| hba1c | 47,413 | 6.2 (1.6) | 6.3 (1.7) | 6.1 (1.5) | 6.2 (1.6) |
| Missing |  | 200,133 | 33,669 | 36,046 | 130,418 |
| glucose | 139,254 | 112.8 (45.7) | 113.6 (47.9) | 109.7 (42.1) | 113.1 (45.6) |
| Missing |  | 108,292 | 17,026 | 23,688 | 67,578 |
| alt | 118,292 |  |  |  |  |
| Median (IQR) |  | 17.0 (12.0, 26.0) | 17.0 (12.0, 26.0) | 17.0 (12.0, 26.0) | 17.0 (12.0, 26.0) |
| Range |  | 2.0, 5,751.0 | 2.0, 1,813.0 | 2.0, 1,693.0 | 2.0, 5,751.0 |
| Missing |  | 129,254 | 20,314 | 27,094 | 81,846 |
| ast | 119,719 |  |  |  |  |
| Median (IQR) |  | 20.0 (16.0, 26.0) | 19.0 (15.0, 25.0) | 19.0 (16.0, 25.0) | 20.0 (16.0, 26.0) |
| Range |  | 3.0, 6,769.0 | 3.0, 2,252.0 | 5.0, 1,820.0 | 3.0, 6,769.0 |
| Missing |  | 127,827 | 19,972 | 26,662 | 81,193 |
| serum\_creatinine | 137,276 |  |  |  |  |
| Median (IQR) |  | 0.8 (0.7, 1.1) | 0.8 (0.7, 1.0) | 0.8 (0.7, 1.0) | 0.9 (0.7, 1.1) |
| Range |  | 0.1, 31.3 | 0.1, 29.5 | 0.1, 23.6 | 0.1, 31.3 |
| Missing |  | 110,270 | 17,251 | 24,099 | 68,920 |
| hdl | 54,952 | 50.9 (16.9) | 50.2 (15.7) | 51.8 (19.2) | 51.0 (16.8) |
| Missing |  | 192,594 | 32,393 | 34,183 | 126,018 |
| ldl | 57,217 | 83.1 (50.0) | 80.3 (53.5) | 96.0 (42.1) | 81.7 (49.8) |
| Missing |  | 190,329 | 31,630 | 33,923 | 124,776 |
| IP | 247,546 |  |  |  |  |
| Median (IQR) |  | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) |
| Range |  | 0.0, 188.0 | 0.0, 125.0 | 0.0, 24.0 | 0.0, 188.0 |
| OA | 247,546 |  |  |  |  |
| Median (IQR) |  | 0.0 (0.0, 4.0) | 0.0 (0.0, 3.0) | 0.0 (0.0, 2.0) | 0.0 (0.0, 4.0) |
| Range |  | 0.0, 320.0 | 0.0, 320.0 | 0.0, 286.0 | 0.0, 303.0 |
| OT | 247,546 |  |  |  |  |
| Median (IQR) |  | 0.0 (0.0, 4.0) | 1.0 (0.0, 4.0) | 0.0 (0.0, 2.0) | 1.0 (0.0, 5.0) |
| Range |  | 0.0, 497.0 | 0.0, 497.0 | 0.0, 141.0 | 0.0, 454.0 |
| AV | 247,546 |  |  |  |  |
| Median (IQR) |  | 4.0 (1.0, 12.0) | 3.0 (1.0, 10.0) | 6.0 (2.0, 14.0) | 4.0 (1.0, 12.0) |
| Range |  | 0.0, 973.0 | 0.0, 973.0 | 0.0, 709.0 | 0.0, 819.0 |
| NI | 247,546 |  |  |  |  |
| Median (IQR) |  | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) |
| Range |  | 0.0, 135.0 | 0.0, 43.0 | 0.0, 77.0 | 0.0, 135.0 |
| TH | 247,546 |  |  |  |  |
| Median (IQR) |  | 0.0 (0.0, 0.0) | 0.0 (0.0, 1.0) | 0.0 (0.0, 0.0) | 0.0 (0.0, 1.0) |
| Range |  | 0.0, 90.0 | 0.0, 73.0 | 0.0, 40.0 | 0.0, 90.0 |
| ED | 247,546 |  |  |  |  |
| Median (IQR) |  | 0.0 (0.0, 1.0) | 0.0 (0.0, 1.0) | 0.0 (0.0, 1.0) | 0.0 (0.0, 0.0) |
| Range |  | 0.0, 167.0 | 0.0, 123.0 | 0.0, 92.0 | 0.0, 167.0 |
| OS | 247,546 |  |  |  |  |
| Median (IQR) |  | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) |
| Range |  | 0.0, 42.0 | 0.0, 22.0 | 0.0, 23.0 | 0.0, 42.0 |
| EI | 247,546 |  |  |  |  |
| Median (IQR) |  | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) |
| Range |  | 0.0, 28.0 | 0.0, 25.0 | 0.0, 18.0 | 0.0, 28.0 |
| UN | 247,546 |  |  |  |  |
| Median (IQR) |  | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) |
| Range |  | 0.0, 178.0 | 0.0, 61.0 | 0.0, 17.0 | 0.0, 178.0 |
| IS | 247,546 |  |  |  |  |
| Median (IQR) |  | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) |
| Range |  | 0.0, 16.0 | 0.0, 3.0 | 0.0, 4.0 | 0.0, 16.0 |
| IC | 247,546 |  |  |  |  |
| Median (IQR) |  | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) | 0.0 (0.0, 0.0) |
| Range |  | 0.0, 4.0 | 0.0, 4.0 | 0.0, 2.0 | 0.0, 2.0 |
| bmi\_category | 247,546 |  |  |  |  |
| Normal |  | 67,676 (27%) | 10,414 (24%) | 12,153 (30%) | 45,109 (28%) |
| Obese |  | 99,208 (40%) | 20,214 (46%) | 15,404 (38%) | 63,590 (39%) |
| Overweight |  | 74,552 (30%) | 12,403 (28%) | 12,471 (30%) | 49,678 (31%) |
| Underweight |  | 6,110 (2.5%) | 875 (2.0%) | 929 (2.3%) | 4,306 (2.6%) |
| CP | 218,848 |  |  |  |  |
| Censored |  | 212,848 (97%) | 37,442 (97%) | 36,136 (97%) | 139,270 (97%) |
| CP1 |  | 1,652 (0.8%) | 368 (1.0%) | 480 (1.3%) | 804 (0.6%) |
| CP2 |  | 288 (0.1%) | 62 (0.2%) | 87 (0.2%) | 139 (<0.1%) |
| CP3 |  | 4,060 (1.9%) | 801 (2.1%) | 594 (1.6%) | 2,665 (1.9%) |
| Missing |  | 28,698 | 5,233 | 3,660 | 19,805 |
| t | 218,848 |  |  |  |  |
| Median (IQR) |  | 243 (98, 423) | 176 (75, 358) | 462 (266, 594) | 215 (88, 373) |
| Range |  | 0, 699 | 0, 686 | 0, 699 | 0, 686 |
| Missing |  | 28,698 | 5,233 | 3,660 | 19,805 |
| incident\_dm | 218,848 | 6,000 (2.7%) | 1,231 (3.2%) | 1,161 (3.1%) | 3,608 (2.5%) |
| Missing |  | 28,698 | 5,233 | 3,660 | 19,805 |
| landmark\_cpit2dm | 247,546 |  |  |  |  |
| New onset in Landmark |  | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| No onset in Landmark |  | 247,546 (100%) | 43,906 (100%) | 40,957 (100%) | 162,683 (100%) |
| lookback\_cpit2dm | 247,546 |  |  |  |  |
| Unverified New onset in Lookback |  | 10,370 (4.2%) | 2,374 (5.4%) | 1,450 (3.5%) | 6,546 (4.0%) |
| Unverified No onset in Lookback |  | 237,176 (96%) | 41,532 (95%) | 39,507 (96%) | 156,137 (96%) |
| cpit2dm\_availability | 247,546 |  |  |  |  |
| CPIT2DM Available |  | 218,848 (88%) | 38,673 (88%) | 37,297 (91%) | 142,878 (88%) |
| CPIT2DM Unavailable |  | 28,698 (12%) | 5,233 (12%) | 3,660 (8.9%) | 19,805 (12%) |
| *1*n (%); Mean (SD) | | | | | |