## PaTH Health Conditions

The following table represents the network-wide demographic breakdowns for 10 major health conditions. These counts represent unique patients with a diagnosis of the condition since $1 / 1 / 2016$.

| Condition | Anxiety Disorders | Asthma | Breast Cancer | Covid-19 | Depressive Disorders | Diabetes Type II | Heart Failure | Hypertension | Liver Disease | Obesity |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total Patient Population | 1,449,761 | 821,158 | 129,470 | 443,211 | 1,140,213 | 517,141 | 329,253 | 2,187,558 | 486,750 | 3,874,626 |
| Age |  |  |  |  |  |  |  |  |  |  |
| $\leq 17$ | 84385 (5.8\%) | 158311 (19.3\%) | 73 (0.1\%) | 52670 (11.9\%) | 41875 (3.7\%) | 2395 (0.5\%) | 4056 (1.2\%) | 12098 (0.6\%) | 7866 (1.6\%) | 157409 (4.1\%) |
| 18-44 | 617724 (42.6\%) | 304275 (37.1\%) | 7328 (5.7\%) | 146718 (33.1\%) | 457926 (40.2\%) | 42335 (8.2\%) | 18235 (5.5\%) | 248160 (11.3\%) | 121562 (25.0\%) | 1225796 (31.6\%) |
| 45-64 | 422913 (29.2\%) | 204138 (24.9\%) | 47707 (36.8\%) | 130113 (29.4\%) | 344804 (30.2\%) | 180103 (34.8\%) | 76701 (23.3\%) | 760715 (34.8\%) | 191853 (39.4\%) | 1300120 (33.6\%) |
| $\geq 65$ | 324738 (22.4\%) | 154424 (18.8\%) | 74344 (57.4\%) | 113709 (25.7\%) | 295607 (25.9\%) | 292299 (56.5\%) | 230261 (69.9\%) | 1166582 (53.3\%) | 165469 (34.0\%) | 1191297 (30.7\%) |
| Sex |  |  |  |  |  |  |  |  |  |  |
| Female | 975163 (67.3\%) | 499155 (60.8\%) | 128058 (98.9\%) | 254331 (57.4\%) | 764490 (67.0\%) | 249643 (48.3\%) | 158185 (48.0\%) | 1109546 (50.7\%) | 253812 (52.1\%) | 2196398 (56.7\%) |
| Male | 474465 (32.7\%) | 321941 (39.2\%) | 1408 (1.1\%) | 188837 (42.6\%) | 375602 (32.9\%) | 267476 (51.7\%) | 171056 (52.0\%) | 1077908 (49.3\%) | 232907 (47.8\%) | 1677879 (43.3\%) |
| Unknown/Other | 118 (0.0\%) | 33 (0.0\%) | 0 (0.0\%) | 26 (0.0\%) | 110 (0.0\%) | 0 (0.0\%) | 0 (0.0\%) | 98 (0.0\%) | 13 (0.0\%) | 349 (0.0\%) |
| Race |  |  |  |  |  |  |  |  |  |  |
| American Indian or Alaska Native | 3450 (0.2\%) | 2261 (0.3\%) | 205 (0.2\%) | 1036 (0.2\%) | 2916 (0.3\%) | 1431 (0.3\%) | 694 (0.2\%) | 4420 (0.2\%) | 1225 (0.3\%) | 8817 (0.2\%) |
| Asian | 17111 (1.2\%) | 12340 (1.5\%) | 2553 (2.0\%) | 8891 (2.0\%) | 14029 (1.2\%) | 10510 (2.0\%) | 3234 (1.0\%) | 33996 (1.6\%) | 11976 (2.5\%) | 44244 (1.1\%) |
| Black or African American | 129862 (9.0\%) | 155946 (19.0\%) | 12622 (9.7\%) | 66634 (15.0\%) | 131146 (11.5\%) | 88333 (17.1\%) | 47806 (14.5\%) | 301256 (13.8\%) | 53274 (10.9\%) | 583766 (15.1\%) |
| Native Hawaiian or Other Pacific Islander | 1498 (0.1\%) | 1310 (0.2\%) | 48 (0.0\%) | 805 (0.2\%) | 1199 (0.1\%) | 664 (0.1\%) | 234 (0.1\%) | 2358 (0.1\%) | 604 (0.1\%) | 5001 (0.1\%) |
| White | 1103518 (76.1\%) | 565947 (68.9\%) | 98330 (75.9\%) | 314348 (70.9\%) | 889060 (78.0\%) | 358661 (69.4\%) | 245840 (74.7\%) | 1635022 (74.7\%) | 370174 (76.1\%) | 2844516 (73.4\%) |
| Unknown/Other | 194322 (13.4\%) | 83345 (10.1\%) | 15679 (12.1\%) | 51497 (11.6\%) | 101863 (8.9\%) | 57542 (11.1\%) | 31445 (9.6\%) | 210507 (9.6\%) | 49497 (10.2\%) | 388282 (10.0\%) |
| Hispanic Ethinicty |  |  |  |  |  |  |  |  |  |  |
| Yes | 51064 (3.5\%) | 53245 (6.5\%) | 2407 (1.9\%) | 25191 (5.7\%) | 42827 (3.8\%) | 23358 (4.5\%) | 9041 (2.7\%) | 68296 (3.1\%) | 23738 (4.9\%) | 191816 (5.0\%) |
| No | 1290492 (89.0\%) | 706290 (86.0\%) | 118054 (91.2\%) | 384212 (86.7\%) | 1014847 (89.0\%) | 450046 (87.0\%) | 294352 (89.4\%) | 1930681 (88.3\%) | 428697 (88.1\%) | 3386508 (87.4\%) |
| Unknown/Other | 108205 (7.5\%) | 61614 (7.5\%) | 9009 (7.0\%) | 32900 (7.4\%) | 82539 (7.2\%) | 43737 (8.5\%) | 25860 (7.9\%) | 188582 (8.6\%) | 34315 (7.0\%) | 296302 (7.6\%) |

How these health conditions were chosen:
A list of health conditions was compiled from sources including past editions of the PaTH website, other PCORnet (National Patient-Centered Clinical Research Network) CRNs, the CDC, NIH and WHO.

The relevance of each condition was then calculated using Google Scholar and data from the PaTH CDM. Google Scholar was used to search for results where conditions appeared in both, the text and title of the article, between the years 2016-2020.

In the PaTH CDM, conditions were searched by ICD-10 codes for number of new diagnoses per year for the same period, 2016-2020. The percentage of change was calculated between 2016 and 2020 and between 2016 and 2019. The Google Scholar and CDM searches generated six categories. Each category was sorted and the top conditions were identified.

Conditions appearing on three or more of the six lists were included. COVID-19 was added due to special interest

To produce the patient count for each condition, the seven PaTH sites queried their respective CDM for the number of unique patients with at least one diagnosis since $1 / 1 / 2016$. These counts were further broken down by age group, sex, race and ethnicity.
*Note: Obesity is a challenging condition to identify because ICD codes for obesity are frequently excluded from a patient's EHR. To improve the quality of the counts, both ICD codes and BMI data were used to identify patients. Additionally, the PaTH patient counts include patients of all ages, accounting for lower numbers than are seen in adult-only counts.

## University of Pittsburgh

| Condition | Anxiety Disorders | Asthma | Breast Cancer | Covid-19 | Depressive Dis. | Diabetes II | Heart Failure | Hypertension | Liver Disease | Obesity |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total Patient Population | 561,669 | 284,353 | 34,205 | 120,210 | 430,026 | 156,921 | 100,030 | 731,351 | 155,567 | 1,139,631 |
| Age |  |  |  |  |  |  |  |  |  |  |
| $\leq 17$ | 37351 (6.7\%) | 53165 (18.7\%) | T | 21405 (17.8\%) | 15609 (3.6\%) | 587 (0.4\%) | 595 (0.6\%) | 2403 (0.3\%) | 2564 (1.6\%) | 40203 (3.5\%) |
| 18-44 | 227447 (40.5\%) | 105240 (37.0\%) | 1346 (3.9\%) | 36593 (30.4\%) | 164290 (38.2\%) | 11112 (7.1\%) | 3957 (4.0\%) | 75116 (10.3\%) | 35585 (22.9\%) | 346101 (30.4\%) |
| 45-64 | 161539 (28.8\%) | 68959 (24.3\%) | 11150 (32.6\%) | 32513 (27.0\%) | 130087 (30.3\%) | 51214 (32.6\%) | 20045 (20.0\%) | 245050 (33.5\%) | 59153 (38.0\%) | 372963 (32.7\%) |
| $\geq 65$ | 135331 (24.1\%) | 56988 (20.0\%) | 21706 (63.5\%) | 29698 (24.7\%) | 120039 (27.9\%) | 94008 (59.9\%) | 75433 (75.4\%) | 408779 (55.9\%) | 58265 (37.5\%) | 380360 (33.4\%) |
| Sex |  |  |  |  |  |  |  |  |  |  |
| Female | 377521 (67.2\%) | 169978 (59.8\%) | 33906 (99.1\%) | 68786 (57.2\%) | 291863 (67.9\%) | 75398 (48.0\%) | 48800 (48.8\%) | 369741 (50.6\%) | 82267 (52.9\%) | 642418 (56.4\%) |
| Male | 184134 (32.8\%) | 114365 (40.2\%) | 299 (0.9\%) | 51419 (42.8\%) | 138145 (32.1\%) | 81522 (52.0\%) | 51230 (51.2\%) | 361584 (49.4\%) | 73297 (47.1\%) | 497172 (43.6\%) |
| Unknown/Other | 14 (0.0\%) | 10 (0.0\%) | (0.0\%) | T | 18 (0.0\%) | T | (0.0\%) | 26 (0.0\%) | T | 41 (0.0\%) |
| Race |  |  |  |  |  |  |  |  |  |  |
| American Indian or Alaska Native | 1062 (0.2\%) | 681 (0.2\%) | 48 (0.1\%) | 213 (0.2\%) | 918 (0.2\%) | 365 (0.2\%) | 210 (0.2\%) | 1228 (0.2\%) | 299 (0.2\%) | 1973 (0.2\%) |
| Asian | 4543 (0.8\%) | 3082 (1.1\%) | 313 (0.9\%) | 1799 (1.5\%) | 3640 (0.8\%) | 1794 (1.1\%) | 498 (0.5\%) | 6403 (0.9\%) | 2514 (1.6\%) | 7851 (0.7\%) |
| Black or African American | 41660 (7.4\%) | 44410 (15.6\%) | 1981 (5.8\%) | 12787 (10.6\%) | 40229 (9.4\%) | 17838 (11.4\%) | 9012 (9.0\%) | 65357 (8.9\%) | 12002 (7.7\%) | 99760 (8.8\%) |
| Native Hawaiian or Other Pacific Islander | 219 (0.0\%) | 139 (0.0\%) |  | 69 (0.1\%) | 198 (0.0\%) | 95 (0.1\%) | 27 (0.0\%) | 300 (0.0\%) | 93 (0.1\%) | 493 (0.0\%) |
| White | 491107 (87.4\%) | 223902 (78.7\%) | 30847 (90.2\%) | 97921 (81.5\%) | 368231 (85.6\%) | 130516 (83.2\%) | 86430 (86.4\%) | 623841 (85.3\%) | 133861 (86.0\%) | 962436 (84.5\%) |
| Unknown/Other | 23078 (4.1\%) | 12139 (4.3\%) | 1008 (2.9\%) | 7421 (6.2\%) | 16810 (3.9\%) | 6313 (4.0\%) | 3853 (3.9\%) | 34222 (4.7\%) | 6798 (4.4\%) | 67118 (5.9\%) |
| Hispanic Ethinicty |  |  |  |  |  |  |  |  |  |  |
| Yes | 5662 (1.0\%) | 4276 (1.5\%) | 160 (0.5\%) | 1395 (1.2\%) | 4608 (1.1\%) | 1704 (1.1\%) | 550 (0.5\%) | 5244 (0.7\%) | 1634 (1.1\%) | 11476 (1.0\%) |
| No | 512862 (91.3\%) | 258307 (90.8\%) | 31856 (93.1\%) | 107826 (89.7\%) | 393222 (91.4\%) | 143121 (91.2\%) | 91092 (91.1\%) | 660751 (90.3\%) | 140518 (90.3\%) | 1017524 (89.3\%) |
| Unknown/Other | 43145 (7.7\%) | 21770 (7.7\%) | 2189 (6.4\%) | 10989 (9.1\%) | 32196 (7.5\%) | 12096 (7.7\%) | 8388 (8.4\%) | 65356 (8.9\%) | 13415 (8.6\%) | 110631 (9.7\%) |

Johns Hopkins University

| Condition | Anxiety Disorders | Asthma | Breast Cancer | Covid-19 | Depressive Disorders | Diabetes Type II | Heart Failure | Hypertension | Liver Disease | Obesity |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total Patient Population | 129,966 | 96,458 | 27,530 | 81,069 | 100,254 | 66,495 | 39,333 | 265,678 | 46,993 | 630,251 |
| Age |  |  |  |  |  |  |  |  |  |  |
| $\leq 17$ | 9108 (7.0\%) | 26894 (27.9\%) | T | 8486 (10.5\%) | 5432 (5.4\%) | 456 (0.7\%) | 507 (1.3\%) | 1949 (0.7\%) | 1097 (2.3\%) | 20464 (3.2\%) |
| 18-44 | 58451 (45.0\%) | 32541 (33.7\%) | 1869 (6.8\%) | 24408 (30.1\%) | 41403 (41.3\%) | 5802 (8.7\%) | 2091 (5.3\%) | 28997 (10.9\%) | 10590 (22.5\%) | 198903 (31.6\%) |
| 45-64 | 36804 (28.3\%) | 21835 (22.6\%) | 11071 (40.2\%) | 25812 (31.8\%) | 28923 (28.8\%) | 23482 (35.3\%) | 8399 (21.4\%) | 91788 (34.5\%) | 19530 (41.6\%) | 221605 (35.2\%) |
| $\geq 65$ | 25603 (19.7\%) | 15188 (15.7\%) | 14583 (53.0\%) | 22363 (27.6\%) | 24496 (24.4\%) | 36755 (55.3\%) | 28336 (72.0\%) | 142944 (53.8\%) | 15776 (33.6\%) | 189279 (30.0\%) |
| Sex |  |  |  |  |  |  |  |  |  |  |
| Female | 90006 (69.3\%) | 57792 (59.9\%) | 27302 (99.2\%) | 47194 (58.2\%) | 66969 (66.8\%) | 32397 (48.7\%) | 19455 (49.5\%) | 140172 (52.8\%) | 24228 (51.6\%) | 372358 (59.1\%) |
| Male | 39892 (30.7\%) | 38643 (40.1\%) | 224 (0.8\%) | 33849 (41.8\%) | 33230 (33.1\%) | 34090 (51.3\%) | 19876 (50.5\%) | 125479 (47.2\%) | 22752 (48.4\%) | 257754 (40.9\%) |
| Unknown/Other | 68 (0.1\%) | 23 (0.0\%) | T | 26 (0.0\%) | 55 (0.1\%) | T | T | 27 (0.0\%) | 13 (0.0\%) | 139 (0.0\%) |
| Race |  |  |  |  |  |  |  |  |  |  |
| American Indian or Alaska Native | 583 (0.4\%) | 418 (0.4\%) | 57 (0.2\%) | 283 (0.3\%) | 438 (0.4\%) | 292 (0.4\%) | 115 (0.3\%) | 917 (0.3\%) | 199 (0.4\%) | 2013 (0.3\%) |
| Asian | 2025 (1.6\%) | 1864 (1.9\%) | 785 (2.9\%) | 1455 (1.8\%) | 1604 (1.6\%) | 1444 (2.2\%) | 634 (1.6\%) | 5627 (2.1\%) | 1479 (3.1\%) | 10484 (1.7\%) |
| Black or African American | 26098 (20.1\%) | 37877 (39.3\%) | 5126 (18.6\%) | 23675 (29.2\%) | 26965 (26.9\%) | 24908 (37.5\%) | 12595 (32.0\%) | 81327 (30.6\%) | 12165 (25.9\%) | 197735 (31.4\%) |
| Native Hawaiian or Other Pacific Islander | 50 (0.0\%) | 39 (0.0\%) | T | 15 (0.0\%) | 41 (0.0\%) | 27 (0.0\%) | 12 (0.0\%) | 109 (0.0\%) | 19 (0.0\%) | 314 (0.0\%) |
| White | 87685 (67.5\%) | 44903 (46.6\%) | 18664 (67.8\%) | 42656 (52.6\%) | 61425 (61.3\%) | 31100 (46.8\%) | 22957 (58.4\%) | 150620 (56.7\%) | 26257 (55.9\%) | 345995 (54.9\%) |
| Unknown/Other | 13525 (10.4\%) | 11357 (11.8\%) | 2889 (10.5\%) | 12985 (16.0\%) | 9781 (9.8\%) | 8724 (13.1\%) | 3020 (7.7\%) | 27078 (10.2\%) | 6874 (14.6\%) | 73710 (11.7\%) |
| Hispanic Ethinicty |  |  |  |  |  |  |  |  |  |  |
| Yes | 3950 (3.0\%) | 3401 (3.5\%) | 450 (1.6\%) | 3911 (4.8\%) | 3166 (3.2\%) | 1784 (2.7\%) | 679 (1.7\%) | 5416 (2.0\%) | 1653 (3.5\%) | 30177 (4.8\%) |
| No | 118177 (90.9\%) | 86375 (89.5\%) | 25500 (92.6\%) | 70716 (87.2\%) | 91641 (91.4\%) | 60381 (90.8\%) | 37061 (94.2\%) | 245951 (92.6\%) | 41899 (89.2\%) | 560563 (88.9\%) |
| Unknown/Other | 7839 (6.0\%) | 6682 (6.9\%) | 1580 (5.7\%) | 6442 (7.9\%) | 5447 (5.4\%) | 4330 (6.5\%) | 1593 (4.1\%) | 14311 (5.4\%) | 3441 (7.3\%) | 39511 (6.3\%) |

Geisinger Health System

| Condition | Anxiety Disorders | Asthma | Breast Cancer | Covid-19 | Depressive Disorders | Diabetes Type II | Heart Failure | Hypertension | Liver Disease | Obesity |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total Patient Population | 341,709 | 177,743 | 18,668 | 117,582 | 248,994 | 111,461 | 70,572 | 474,080 | 102,325 | 715,576 |
| Age |  |  |  |  |  |  |  |  |  |  |
| $\leq 17$ | 19793 (5.8\%) | 35853 (20.2\%) | 73 (0.4\%) | 13079 (11.1\%) | 10683 (4.3\%) | 588 (0.5\%) | 515 (0.7\%) | 3398 (0.7\%) | 1913 (1.9\%) | 45055 (6.3\%) |
| 18-44 | 140951 (41.2\%) | 65835 (37.0\%) | 850 (4.6\%) | 39155 (33.3\%) | 99258 (39.9\%) | 8365 (7.5\%) | 2704 (3.8\%) | 55900 (11.8\%) | 28839 (28.2\%) | 228636 (32.0\%) |
| 45-64 | 101217 (29.6\%) | 42995 (24.2\%) | 5934 (31.8\%) | 33339 (28.4\%) | 73914 (29.7\%) | 35918 (32.2\%) | 14511 (20.6\%) | 164103 (34.6\%) | 39408 (38.5\%) | 227667 (31.8\%) |
| $\geq 65$ | 79748 (23.3\%) | 33051 (18.6\%) | 11811 (63.3\%) | 32009 (27.2\%) | 65139 (26.2\%) | 66590 (59.7\%) | 52842 (74.9\%) | 250679 (52.9\%) | 32165 (31.4\%) | 214218 (29.9\%) |
| Sex |  |  |  |  |  |  |  |  |  |  |
| Female | 227573 (66.6\%) | 107620 (60.5\%) | 18283 (97.9\%) | 67747 (57.6\%) | 165832 (66.6\%) | 53766 (48.2\%) | 34186 (48.4\%) | 236700 (49.9\%) | 54731 (53.5\%) | 388257 (54.3\%) |
| Male | 114134 (33.4\%) | 70111 (39.4\%) | 385 (2.1\%) | 49834 (42.4\%) | 83159 (33.4\%) | 57694 (51.8\%) | 36386 (51.6\%) | 237375 (50.1\%) | 47593 (46.5\%) | 327304 (45.7\%) |
| Unknown/Other | T | T | 0 (0.0\%) | T | T | T | 0 (0.0\%) | T | T | 15 (0.0\%) |
| Race |  |  |  |  |  |  |  |  |  |  |
| American Indian or Alaska Native | 692 (0.2\%) | 428 (0.2\%) | 24 (0.1\%) | 266 (0.2\%) | 594 (0.2\%) | 244 (0.2\%) | 96 (0.1\%) | 748 (0.2\%) | 239 (0.2\%) | 1271 (0.2\%) |
| Asian | 2135 (0.6\%) | 1513 (0.9\%) | 146 (0.8\%) | 1178 (1.0\%) | 1548 (0.6\%) | 1108 (1.0\%) | 346 (0.5\%) | 4300 (0.9\%) | 1104 (1.1\%) | 4500 (0.6\%) |
| Black or African American | 11719 (3.4\%) | 12442 (7.0\%) | 431 (2.3\%) | 5615 (4.8\%) | 9884 (4.0\%) | 4639 (4.2\%) | 2104 (3.0\%) | 17623 (3.7\%) | 3690 (3.6\%) | 36821 (5.1\%) |
| Native Hawaiian or Other Pacific Islander | 1001 (0.3\%) | 965 (0.5\%) | 33 (0.2\%) | 656 (0.6\%) | 744 (0.3\%) | 421 (0.4\%) | 130 (0.2\%) | 1587 (0.3\%) | 399 (0.4\%) | 3423 (0.5\%) |
| White | 284399 (83.2\%) | 139745 (78.6\%) | 15623 (83.7\%) | 98536 (83.8\%) | 204049 (81.9\%) | 85072 (76.3\%) | 56955 (80.7\%) | 371288 (78.3\%) | 86318 (84.4\%) | 598611 (83.7\%) |
| Unknown/Other | 41763 (12.2\%) | 22641 (12.7\%) | 2411 (12.9\%) | 11331 (9.6\%) | 32175 (12.9\%) | 19977 (17.9\%) | 10941 (15.5\%) | 78534 (16.6\%) | 10575 (10.3\%) | 70950 (9.9\%) |
| Hispanic Ethinicty |  |  |  |  |  |  |  |  |  |  |
| Yes | 14671 (4.3\%) | 14356 (8.1\%) | 449 (2.4\%) | 8272 (7.0\%) | 11526 (4.6\%) | 4836 (4.3\%) | 1558 (2.2\%) | 15945 (3.4\%) | 5831 (5.7\%) | 41033 (5.7\%) |
| No | 283389 (82.9\%) | 140609 (79.1\%) | 15727 (84.2\%) | 97825 (83.2\%) | 203877 (81.9\%) | 85964 (77.1\%) | 57456 (81.4\%) | 376292 (79.4\%) | 85589 (83.6\%) | 602051 (84.1\%) |
| Unknown/Other | 43649 (12.8\%) | 22769 (12.8\%) | 2492 (13.3\%) | 11485 (9.8\%) | 33591 (13.5\%) | 20661 (18.5\%) | 11558 (16.4\%) | 81843 (17.3\%) | 10905 (10.7\%) | 72492 (10.1\%) |

University of Michigan

| Condition | Anxiety Disorders | Asthma | Breast Cancer | Covid-19 | Depressive Disorders | Diabetes Type II | Heart Failure | Hypertension | Liver Disease | Obesity |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total Patient Population | 110,447 | 66,755 | 13,483 | 23,901 | 93,044 | 45,560 | 30,530 | 167,608 | 41,104 | 401,131 |
| Age |  |  |  |  |  |  |  |  |  |  |
| $\leq 17$ | 7654 (6.9\%) | 15453 (23.1\%) | T | 3548 (14.8\%) | 4800 (5.2\%) | 175 (0.4\%) | 1706 (5.6\%) | 2272 (1.4\%) | 1105 (2.7\%) | 14372 (3.6\%) |
| 18-44 | 49972 (45.2\%) | 22673 (34.0\%) | 978 (7.3\%) | 7816 (32.7\%) | 40435 (43.5\%) | 4002 (8.8\%) | 2990 (9.8\%) | 17990 (10.7\%) | 10421 (25.4\%) | 125480 (31.3\%) |
| 45-64 | 29739 (26.9\%) | 15672 (23.5\%) | 5467 (40.5\%) | 6517 (27.3\%) | 25148 (27.0\%) | 16661 (36.6\%) | 7939 (26.0\%) | 55840 (33.3\%) | 16060 (39.1\%) | 135821 (33.9\%) |
| $\geq 65$ | 23082 (20.9\%) | 12957 (19.4\%) | 7037 (52.2\%) | 6020 (25.2\%) | 22661 (24.4\%) | 24722 (54.3\%) | 17895 (58.6\%) | 91506 (54.6\%) | 13518 (32.9\%) | 125458 (31.3\%) |
| Sex |  |  |  |  |  |  |  |  |  |  |
| Female | 74983 (67.9\%) | 40107 (60.1\%) | 13361 (99.1\%) | 13489 (56.4\%) | 62584 (67.3\%) | 20866 (45.8\%) | 13907 (45.6\%) | 82140 (49.0\%) | 21107 (51.4\%) | 220380 (54.9\%) |
| Male | 35455 (32.1\%) | 26646 (39.9\%) | 122 (0.9\%) | 10411 (43.6\%) | 30453 (32.7\%) | 24694 (54.2\%) | 16621 (54.4\%) | 85456 (51.0\%) | 19994 (48.6\%) | 180708 (45.0\%) |
| Unknown/Other | T | T | 0 (0.0\%) | T | T | 0 (0.0\%) | T | 12 (0.0\%) | T | 43 (0.0\%) |
| Race |  |  |  |  |  |  |  |  |  |  |
| American Indian or Alaska Native | 641 (0.6\%) | 425 (0.6\%) | 39 (0.3\%) | 123 (0.5\%) | 547 (0.6\%) | 309 (0.7\%) | 161 (0.5\%) | 802 (0.5\%) | 264 (0.6\%) | 2328 (0.6\%) |
| Asian | 3088 (2.8\%) | 2287 (3.4\%) | 571 (4.2\%) | 898 (3.8\%) | 2648 (2.8\%) | 2005 (4.4\%) | 676 (2.2\%) | 5676 (3.4\%) | 2400 (5.8\%) | 7163 (1.8\%) |
| Black or African American | 9688 (8.8\%) | 10814 (16.2\%) | 902 (6.7\%) | 3514 (14.7\%) | 9598 (10.3\%) | 6937 (15.2\%) | 3898 (12.8\%) | 20740 (12.4\%) | 3496 (8.5\%) | 48224 (12.0\%) |
| Native Hawaiian or Other Pacific Islander | 93 (0.1\%) | 71 (0.1\%) | 15 (0.1\%) | 20 (0.1\%) | 86 (0.1\%) | 56 (0.1\%) | 29 (0.1\%) | 149 (0.1\%) | 34 (0.1\%) | 360 (0.1\%) |
| White | 91224 (82.6\%) | 49511 (74.2\%) | 10834 (80.4\%) | 17687 (74.0\%) | 75374 (81.0\%) | 33291 (73.1\%) | 24324 (79.7\%) | 131552 (78.5\%) | 31841 (77.5\%) | 318010 (79.3\%) |
| Unknown/Other | 5713 (5.2\%) | 3647 (5.5\%) | 1122 (8.3\%) | 1659 (6.9\%) | 4791 (5.1\%) | 2962 (6.5\%) | 1442 (4.7\%) | 8689 (5.2\%) | 3069 (7.5\%) | 25046 (6.2\%) |
| Hispanic Ethinicty |  |  |  |  |  |  |  |  |  |  |
| Yes | 4353 (3.9\%) | 2803 (4.2\%) | 221 (1.6\%) | 1200 (5.0\%) | 3566 (3.8\%) | 1748 (3.8\%) | 740 (2.4\%) | 4180 (2.5\%) | 1798 (4.4\%) | 15496 (3.9\%) |
| No | 102702 (93.0\%) | 61972 (92.8\%) | 12012 (89.1\%) | 21834 (91.4\%) | 86488 (93.0\%) | 41705 (91.5\%) | 28668 (93.9\%) | 155303 (92.7\%) | 37242 (90.6\%) | 368395 (91.8\%) |
| Unknown/Other | 3392 (3.1\%) | 1980 (3.0\%) | 1250 (9.3\%) | 867 (3.6\%) | 2990 (3.2\%) | 2107 (4.6\%) | 1122 (3.7\%) | 8125 (4.8\%) | 2064 (5.0\%) | 17240 (4.3\%) |

## Ohio State University

| Condition | Anxiety Disorders | Asthma | Breast Cancer | Covid-19 | Depressive Disorders | Diabetes Type II | Heart Failure | Hypertension | Liver Disease | Obesity |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total Patient Population | 151,986 | 70,670 | 17.391 | 48,035 | 144,748 | 66,188 | 42,876 | 255,361 | 70,660 | 398,186 |
| Age |  |  |  |  |  |  |  |  |  |  |
| $\leq 17$ | 1409 (0.9\%) | 1977 (2.8\%) | T | 1715 (3.6\%) | 786 (0.5\%) | \#VALUE! | 21 (0.0\%) | 63 (0.0\%) | 34 (0.0\%) | 2211 (0.6\%) |
| 18-44 | 77822 (51.2\%) | 32836 (46.5\%) | 1238 (7.1\%) | 22804 (47.5\%) | 66727 (46.1\%) | 6963 (10.5\%) | 3641 (8.5\%) | 35720 (14.0\%) | 18941 (26.8\%) | 129943 (32.6\%) |
| 45-64 | 45959 (30.2\%) | 22136 (31.3\%) | 7261 (41.8\%) | 14953 (31.1\%) | 46001 (31.8\%) | 26584 (40.2\%) | 13419 (31.3\%) | 97962 (38.4\%) | 29242 (41.4\%) | 146490 (36.8\%) |
| $\geq 65$ | 26796 (17.6\%) | 13721 (19.4\%) | 8891 (51.1\%) | 8563 (17.8\%) | 31234 (21.6\%) | 32632 (49.3\%) | 25795 (60.2\%) | 121616 (47.6\%) | 22443 (31.8\%) | 119542 (30.0\%) |
| Sex |  |  |  |  |  |  |  |  |  |  |
| Female | 101472 (66.8\%) | 46812 (66.2\%) | 17205 (98.9\%) | 27713 (57.7\%) | 95874 (66.2\%) | 32751 (49.5\%) | 20328 (47.4\%) | 130630 (51.2\%) | 37097 (52.5\%) | 233699 (58.7\%) |
| Male | 50498 (33.2\%) | 23854 (33.8\%) | 186 (1.1\%) | 20315 (42.3\%) | 48855 (33.8\%) | 33428 (50.5\%) | 22541 (52.6\%) | 124712 (48.8\%) | 33555 (47.5\%) | 164450 (41.3\%) |
| Unknown/Other | 16 (0.0\%) | T | 0 (0.0\%) | T | 19 (0.0\%) | T | T | 19 (0.0\%) | T | 37 (0.0\%) |
| Race |  |  |  |  |  |  |  |  |  |  |
| American Indian or Alaska Native | 284 (0.2\%) | 158 (0.2\%) | 28 (0.2\%) | 80 (0.2\%) | 277 (0.2\%) | 128 (0.2\%) | 67 (0.2\%) | 368 (0.1\%) | 141 (0.2\%) | 611 (0.2\%) |
| Asian | 3137 (2.1\%) | 1387 (2.0\%) | 369 (2.1\%) | 1932 (4.0\%) | 2758 (1.9\%) | 2040 (3.1\%) | 439 (1.0\%) | 5268 (2.1\%) | 2158 (3.1\%) | 5966 (1.5\%) |
| Black or African American | 21629 (14.2\%) | 18487 (26.2\%) | 1534 (8.8\%) | 10188 (21.2\%) | 23760 (16.4\%) | 14594 (22.0\%) | 7910 (18.4\%) | 47343 (18.5\%) | 10112 (14.3\%) | 64780 (16.3\%) |
| Native Hawaiian or Other Pacific Islander | 68 (0.0\%) | 37 (0.1\%) | \#VALUE! | 32 (0.1\%) | 76 (0.1\%) | 44 (0.1\%) | 20 (0.0\%) | 121 (0.0\%) | 34 (0.0\%) | 200 (0.1\%) |
| White | 119462 (78.6\%) | 46902 (66.4\%) | 14932 (85.9\%) | 31580 (65.7\%) | 110698 (76.5\%) | 44920 (67.9\%) | 32890 (76.7\%) | 191230 (74.9\%) | 54411 (77.0\%) | 305406 (76.7\%) |
| Unknown/Other | 7406 (4.9\%) | 3699 (5.2\%) | 521 (3.0\%) | 4223 (8.8\%) | 7179 (5.0\%) | 4462 (6.7\%) | 1550 (3.6\%) | 11031 (4.3\%) | 3804 (5.4\%) | 21223 (5.3\%) |
| Hispanic Ethinicty |  |  |  |  |  |  |  |  |  |  |
| Yes | 3943 (2.6\%) | 2064 (2.9\%) | 228 (1.3\%) | 2391 (5.0\%) | 3801 (2.6\%) | 1990 (3.0\%) | 497 (1.2\%) | 4763 (1.9\%) | 2042 (2.9\%) | 11800 (3.0\%) |
| No | 146069 (96.1\%) | 67924 (96.1\%) | 16872 (97.0\%) | 44568 (92.8\%) | 139098 (96.1\%) | 62925 (95.1\%) | 41771 (97.4\%) | 247329 (96.9\%) | 67825 (96.0\%) | 381325 (95.8\%) |
| Unknown/Other | 1974 (1.3\%) | 682 (1.0\%) | 291 (1.7\%) | 1076 (2.2\%) | 1849 (1.3\%) | 1273 (1.9\%) | 608 (1.4\%) | 3269 (1.3\%) | 793 (1.1\%) | 5061 (1.3\%) |

Temple University

| Condition | Anxiety Disorders | Asthma | Breast Cancer | Covid-19 | Depressive Disorders | Diabetes Type II | Heart Failure | Hypertension | Liver Disease | Obesity |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total Patient Population | 58,439 | 63,775 | 10,975 | 26,528 | 50,045 | 40,690 | 25,623 | 152,752 | 33,738 | 318,686 |
| Age |  |  |  |  |  |  |  |  |  |  |
| $\leq 17$ | 507 (0.9\%) | 6754 (10.6\%) | \#VALUE! | 676 (2.5\%) | 315 (0.6\%) | 12 (0.0\%) | 3 (0.0\%) | 73 (0.0\%) | 59 (0.2\%) | 7972 (2.5\%) |
| 18-44 | 22146 (37.9\%) | 24736 (38.8\%) | 636 (5.8\%) | 8071 (30.4\%) | 17098 (34.2\%) | 3590 (8.8\%) | 1565 (6.1\%) | 17390 (11.4\%) | 8294 (24.6\%) | 112503 (35.3\%) |
| 45-64 | 21130 (36.2\%) | 19381 (30.4\%) | 4065 (37.0\%) | 9752 (36.8\%) | 19174 (38.3\%) | 16317 (40.1\%) | 8020 (31.3\%) | 58843 (38.5\%) | 14454 (42.8\%) | 111206 (34.9\%) |
| $\geq 65$ | 14656 (25.1\%) | 12904 (20.2\%) | 6273 (57.2\%) | 8029 (30.3\%) | 13458 (26.9\%) | 20771 (51.0\%) | 16035 (62.6\%) | 76446 (50.0\%) | 10931 (32.4\%) | 87005 (27.3\%) |
| Sex |  |  |  |  |  |  |  |  |  |  |
| Female | 39142 (67.0\%) | 40506 (63.5\%) | 10849 (98.9\%) | 15020 (56.6\%) | 32103 (64.1\%) | 20438 (50.2\%) | 12483 (48.7\%) | 79900 (52.3\%) | 15501 (45.9\%) | 189156 (59.4\%) |
| Male | 19293 (33.0\%) | 23264 (36.5\%) | 126 (1.1\%) | 11508 (43.4\%) | 17941 (35.8\%) | 20252 (49.8\%) | 13140 (51.3\%) | 72851 (47.7\%) | 18237 (54.1\%) | 129521 (40.6\%) |
| Unknown/Other | T | T | 0 (0.0\%) | 0 (0.0\%) | T | 0 (0.0\%) | 0 (0.0\%) | T | 0 (0.0\%) | 9 (0.0\%) |
| Race |  |  |  |  |  |  |  |  |  |  |
| American Indian or Alaska Native | 38 (0.1\%) | 39 (0.1\%) | 9 (0.1\%) | 25 (0.1\%) | 29 (0.1\%) | 44 (0.1\%) | 11 (0.0\%) | 106 (0.1\%) | 17 (0.1\%) | 208 (0.1\%) |
| Asian | 972 (1.7\%) | 1111 (1.7\%) | 268 (2.4\%) | 711 (2.7\%) | 698 (1.4\%) | 1337 (3.3\%) | 399 (1.6\%) | 3917 (2.6\%) | 1181 (3.5\%) | 4898 (1.5\%) |
| Black or African American | 14286 (24.4\%) | 26123 (41.0\%) | 2400 (21.9\%) | 9049 (34.1\%) | 16409 (32.8\%) | 16998 (41.8\%) | 11062 (43.2\%) | 59663 (39.1\%) | 9974 (29.6\%) | 117632 (36.9\%) |
| Native Hawaiian or Other Pacific Islander | 0 (0.0\%) | 0 (0.0\%) | 0 (0.0\%) | 0 (0.0\%) | 0 (0.0\%) | 0 (0.0\%) | 1 (0.0\%) | 1 (0.0\%) | 0 (0.0\%) | 2 (0.0\%) |
| White | 15022 (25.7\%) | 20579 (32.3\%) | 1584 (14.4\%) | 7604 (28.7\%) | 13092 (26.2\%) | 11277 (27.7\%) | 5543 (21.6\%) | 55714 (36.5\%) | 9745 (28.9\%) | 115608 (36.3\%) |
| Unknown/Other | 28121 (48.1\%) | 15923 (25.0\%) | 6714 (61.2\%) | 9139 (34.5\%) | 19817 (39.6\%) | 11034 (27.1\%) | 8607 (33.6\%) | 33352 (21.8\%) | 12821 (38.0\%) | 80338 (25.2\%) |
| Hispanic Ethinicty |  |  |  |  |  |  |  |  |  |  |
| Yes | 12612 (21.6\%) | 18056 (28.3\%) | 654 (6.0\%) | 5731 (21.6\%) | 11435 (22.8\%) | 9069 (22.3\%) | 4107 (16.0\%) | 25575 (16.7\%) | 7913 (23.5\%) | 58401 (18.3\%) |
| No | 42927 (73.5\%) | 41271 (64.7\%) | 9755 (88.9\%) | 19323 (72.8\%) | 36406 (72.7\%) | 29561 (72.6\%) | 19673 (76.8\%) | 118584 (77.6\%) | 24094 (71.4\%) | 230207 (72.2\%) |
| Unknown/Other | 2900 (5.0\%) | 4448 (7.0\%) | 566 (5.2\%) | \#VALUE! | 2204 (4.4\%) | 2060 (5.1\%) | 1843 (7.2\%) | 8594 (5.6\%) | 1731 (5.1\%) | 30078 (9.4\%) |

## Penn State University

| Condition | Anxiety Disorders | Asthma | Breast Cancer | Covid-19 | Depressive Disorders | Diabetes Type II | Heart Failure | Hypertension | Liver Disease | Obesity |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Total Patient Population | 95,545 | 61,404 | 7,218 | 25,886 | 73,102 | 29,826 | 20,289 | 140,728 | 36,363 | 271,165 |
| Age |  |  |  |  |  |  |  |  |  |  |
| $\leq 17$ | 8563 (9.0\%) | 18215 (29.7\%) | \#VALUE! | 3761 (14.5\%) | 4250 (5.8\%) | 577 (1.9\%) | 709 (3.5\%) | 1940 (1.4\%) | 1094 (3.0\%) | 27132 (10.0\%) |
| 18-44 | 40935 (42.8\%) | 20414 (33.2\%) | 411 (5.7\%) | 7871 (30.4\%) | 28715 (39.3\%) | 2501 (8.4\%) | 1287 (6.3\%) | 17047 (12.1\%) | 8892 (24.5\%) | 84230 (31.1\%) |
| 45-64 | 26525 (27.8\%) | 13160 (21.4\%) | 2759 (38.2\%) | 7227 (27.9\%) | 21557 (29.5\%) | 9927 (33.3\%) | 4368 (21.5\%) | 47129 (33.5\%) | 14006 (38.5\%) | 84368 (31.1\%) |
| $\geq 65$ | 19522 (20.4\%) | 9615 (15.7\%) | 4043 (56.0\%) | 7027 (27.1\%) | 18580 (25.4\%) | 16821 (56.4\%) | 13925 (68.6\%) | 74612 (53.0\%) | 12371 (34.0\%) | 75435 (27.8\%) |
| Sex |  |  |  |  |  |  |  |  |  |  |
| Female | 64466 (67.5\%) | 36340 (59.2\%) | 7152 (99.1\%) | 14382 (55.6\%) | 49265 (67.4\%) | 14027 (47.0\%) | 9026 (44.5\%) | 70263 (49.9\%) | 18881 (51.9\%) | 150130 (55.4\%) |
| Male | 31059 (32.5\%) | 25058 (40.8\%) | 66 (0.9\%) | 11501 (44.4\%) | 23819 (32.6\%) | 15796 (53.0\%) | 11262 (55.5\%) | 70451 (50.1\%) | 17479 (48.1\%) | 120970 (44.6\%) |
| Unknown/Other | 20 (0.0\%) | T | 0 (0.0\%) | T | 18 (0.0\%) | T | T | 14 (0.0\%) | T | 65 (0.0\%) |
| Race |  |  |  |  |  |  |  |  |  |  |
| American Indian or Alaska Native | 150 (0.2\%) | 112 (0.2\%) | T | 46 (0.2\%) | 113 (0.2\%) | 49 (0.2\%) | 34 (0.2\%) | 251 (0.2\%) | 66 (0.2\%) | 413 (0.2\%) |
| Asian | 1211 (1.3\%) | 1096 (1.8\%) | 101 (1.4\%) | 918 (3.5\%) | 1133 (1.5\%) | 782 (2.6\%) | 242 (1.2\%) | 2805 (2.0\%) | 1140 (3.1\%) | 3382 (1.2\%) |
| Black or African |  |  |  |  |  |  |  |  |  |  |
| Native Hawaiian or Other Pacific Islander | 67 (0.1\%) | 59 (0.1\%) | 0 (0.0\%) | 13 (0.1\%) | 54 (0.1\%) | 21 (0.1\%) | 15 (0.1\%) | 91 (0.1\%) | 25 (0.1\%) | 209 (0.1\%) |
| White | 14619 (15.3\%) | 40405 (65.8\%) | 5846 (81.0\%) | 18364 (70.9\%) | 56191 (76.9\%) | 22485 (75.4\%) | 16741 (82.5\%) | 110777 (78.7\%) | 27741 (76.3\%) | 198450 (73.2\%) |
| Unknown/Other | 74716 (78.2\%) | 13939 (22.7\%) | 1014 (14.0\%) | 4739 (18.3\%) | 11310 (15.5\%) | 4070 (13.6\%) | 2032 (10.0\%) | 17601 (12.5\%) | 5556 (15.3\%) | 49897 (18.4\%) |
| Hispanic Ethinicty |  |  |  |  |  |  |  |  |  |  |
| Yes | 5873 (6.1\%) | 8289 (13.5\%) | 245 (3.4\%) | 2291 (8.9\%) | 4725 (6.5\%) | 2227 (7.5\%) | 910 (4.5\%) | 7173 (5.1\%) | 2867 (7.9\%) | 23433 (8.6\%) |
| No | 84366 (88.3\%) | 49832 (81.2\%) | 6332 (87.7\%) | 22120 (85.5\%) | 64115 (87.7\%) | 26389 (88.5\%) | 18631 (91.8\%) | 126471 (89.9\%) | 31530 (86.7\%) | 226443 (83.5\%) |
| Unknown/Other | 5306 (5.6\%) | 3283 (5.3\%) | 641 (8.9\%) | 1475 (5.7\%) | 4262 (5.8\%) | 1210 (4.1\%) | 748 (3.7\%) | 7084 (5.0\%) | 1966 (5.4\%) | 21289 (7.9\%) |

ICD 10 Codes:

Anxiety Disorders = ('F06.4', 'F41.0', 'F41.1', 'F41.3', 'F41.8', 'F41.9')

Asthma = ('J45.20', 'J45.21', 'J45.22', 'J45.30', 'J45.31', 'J45.32', 'J45.40', 'J45.41', 'J45.42', 'J45.50', 'J45.51', 'J45.52', 'J45.901', 'J45.902', 'J45.909', 'J45.990', 'J45.991', 'J45.998')

Breast Cancer = ('D05.10', 'D05.11', 'D05.12', 'C50.011', 'C50.012', 'C50.019', 'C50.021', 'C50.022', 'C50.029', 'C50.111', 'C50.112', 'C50.119', 'C50.121', 'C50.122', 'C50.129', 'C50.211', 'C50.212', 'C50.219', 'C50.221', 'C50.222', 'C50.229', 'C50.311', 'C50.312', 'C50.319', 'C50.321', 'C50.322', 'C50.329', 'C50.411', 'C50.412', 'C50.419', 'C50.421', 'C50.422', 'C50.429', 'C50.511', 'C50.512', 'C50.519', 'C50.521', 'C50.522', 'C50.529', 'C50.611', 'C50.612', 'C50.619', 'C50.621', 'C50.622', 'C50.629', 'C50.811', 'C50.812', 'C50.819', 'C50.821', 'C50.822', 'C50.829', 'C50.911', 'C50.912', 'C50.919', 'C50.921', 'C50.922', 'C50.929', 'D05.00', 'D05.01', 'D05.02', 'D05.80', 'D05.81', 'D05.82', 'D05.90', 'D05.91', 'D05.92')

Covid-19 = ('U07.1', 'U07.2', 'U09. 9', 'U49')

Depressive Disorders = ('F32.0', 'F32.1', 'F32.2', 'F32.3', 'F32.4', 'F32.8', 'F32.89', 'F32.9', 'F33.0', 'F33.1', 'F33.2', 'F33.3', 'F33.41', 'F33.8', 'F33.9', 'F34.1', 'F32.5', 'F33.40', 'F33.42,' 'F32.A')

Diabetes Type II = ('E08.00', 'E08.01', 'E08.10', 'E08.11', 'E08.21', 'E08.22', 'E08.29', 'E08.311', 'E08.319', 'E08.321', 'E08.3211', 'E08.3212', 'E08.3213', 'E08.3219', 'E08.329', 'E08.3291', 'E08.3292', 'E08.3293', 'E08.3299', 'E08.331', 'E08.3311', 'E08.3312', 'E08.3313', 'E08.3319', 'E08.339', 'E08.3391', 'E08.3392', 'E08.3393', 'E08.3399', 'E08.341', 'E08.3411', 'E08.3412', 'E08.3413', 'E08.3419', 'E08.349', 'E08.3491', 'E08.3492', 'E08.3493', 'E08.3499', 'E08.351', 'E08.3511', 'E08.3512', 'E08.3513', 'E08.3519', 'E08.3521', 'E08.3522', 'E08.3523', 'E08.3529', 'E08.3531', 'E08.3532', 'E08.3533', 'E08.3539', 'E08.3541', 'E08.3542', 'E08.3543', 'E08.3549', 'E08.3551', 'E08.3552', 'E08.3553', 'E08.3559', 'E08.359', 'E08.3591', 'E08.3592', 'E08.3593', 'E08.3599', 'E08.36', 'E08.37X1', 'E08.37X2', 'E08.37X3', 'E08.37X9', 'E08.39', 'E08.40', 'E08.41', 'E08.42', 'E08.43', 'E08.44', 'E08.49', 'E08.51', 'E08.52', 'E08.59', 'E08.610', 'E08.618', 'E08.620', 'E08.621', 'E08.622', 'E08.628', 'E08.630', 'E08.638', 'E08.641', 'E08.649', 'E08.65', 'E08.69', 'E08.8', 'E11.00', 'E11.01', 'E11.10', 'E11.11', 'E11.21', 'E11.22', 'E11.29', 'E11.311', 'E11.319', 'E11.321', 'E11.3211', 'E11.3212', 'E11.3213', 'E11.3219', 'E11.329', 'E11.3291', 'E11.3292', 'E11.3293', 'E11.3299', 'E11.331', 'E11.3311', 'E11.3312', 'E11.3313', 'E11.3319', 'E11.339', 'E11.3391', 'E11.3392', 'E11.3393', 'E11.3399', 'E11.341', 'E11.3411', 'E11.3412', 'E11.3413', 'E11.3419', 'E11.349', 'E11.3491', 'E11.3492', 'E11.3493', 'E11.3499', 'E11.351', 'E11.3511', 'E11.3512', 'E11.3513', 'E11.3519', 'E11.3521', 'E11.3522', 'E11.3523', 'E11.3529', 'E11.3531', 'E11.3532', 'E11.3533', 'E11.3539', 'E11.3541', 'E11.3542', 'E11.3543', 'E11.3549', 'E11.3551', 'E11.3552', 'E11.3553', 'E11.3559', 'E11.359', 'E11.3591', 'E11.3592', 'E11.3593', 'E11.3599', 'E11.36', 'E11.37X1', 'E11.37X2', 'E11.37X3', 'E11.37X9', 'E11.39', 'E11.40', 'E11.41', 'E11.42', 'E11.43', 'E11.44', 'E11.49', 'E11.51', 'E11.52', 'E11.59', 'E11.610', 'E11.618', 'E11.620', 'E11.621', 'E11.622', 'E11.628', 'E11.630', 'E11.638', 'E11.641', 'E11.649', 'E11.65', 'E11.69', 'E11.8', 'E13.00', 'E13.01', 'E13.10',
'E13.11', 'E13.21', 'E13.22', 'E13.29', 'E13.311', 'E13.319', 'E13.321', 'E13.3211', 'E13.3212', 'E13.3213', 'E13.3219', 'E13.329', 'E13.3291', 'E13.3292', 'E13.3293', 'E13.3299', 'E13.331', 'E13.3311', 'E13.3312', 'E13.3313', 'E13.3319', 'E13.339', 'E13.3391', 'E13.3392', 'E13.3393', 'E13.3399', 'E13.341', 'E13.3411', 'E13.3412', 'E13.3413', 'E13.3419', 'E13.349', 'E13.3491', 'E13.3492', 'E13.3493', 'E13.3499', 'E13.351', 'E13.3511', 'E13.3512', 'E13.3513', 'E13.3519', 'E13.3521', 'E13.3522', 'E13.3523', 'E13.3529', 'E13.3531', 'E13.3532', 'E13.3533', 'E13.3539', 'E13.3541', 'E13.3542', 'E13.3543', 'E13.3549', 'E13.3551', 'E13.3552', 'E13.3553', 'E13.3559', 'E13.359', 'E13.3591', 'E13.3592', 'E13.3593', 'E13.3599', 'E13.36', 'E13.37X1', 'E13.37X2', 'E13.37X3', 'E13.37X9', 'E13.39', 'E13.40', 'E13.41', 'E13.42', 'E13.43', 'E13.44', 'E13.49', 'E13.51', 'E13.52', 'E13.59', 'E13.610', 'E13.618', 'E13.620', 'E13.621', 'E13.622', 'E13.628', 'E13.630', 'E13.638', 'E13.641', 'E13.649', 'E13.65', 'E13.69', 'E13.8')

Heart Failure = ('I09.81', 'I11.0', 'I13.0', 'I13.2', 'I50.40', 'I50.41', 'I50.42', 'I50.43', 'I50.810', 'I50.811', 'I50.812', 'I50.813', 'I50.814', 'I50.82', 'I50.83', 'I50.84', 'I50.89', 'I50.9', 'I50.30', 'I50.31', 'I50.32', 'I50.33', 'I50.20', 'I50.21', 'I50.22', 'I50.23', 'I51.9', 'I50.1', 'I50.81', 'Z95.811', 'Z95.812')

Hypertension = ('I10', 'O10.011', 'O10.012', 'O10.013', 'O10.019', 'O10.02', 'O10.03', 'O10.911', 'O10.912', 'O10.913', '010.919', '010.92', '010.93', 'H35.031', 'H35.032', 'H35.033', 'I11.0', 'I11.9', 'I12.0', 'I12.9', 'I13.0', 'I13.10', 'I13.11', 'I13.2', 'I15.0', 'I15.1', 'I15.2', 'I15.8', 'I15.9', 'I16.0', 'I16.1', 'I16.9', 'I67.4', 'O10.111', 'O10.112', 'O10.113', 'O10.119', 'O10.12', 'O10.13', 'O10.211', 'O10.212', 'O10.213', 'O10.219', 'O10.22', '010.23', 'O10.311', 'O10.312', 'O10.313', 'O10.319', 'O10.32', 'O10.33', 'O10.411', 'O10.412', 'O10.413', 'O10.419', 'O10.42', 'O10.43', 'O11.1', 'O11.2', 'O11.3', 'O11.4', 'O11.5', 'O11.9')

Liver Disease = ('K70.40', 'K70.41', 'K72.00', 'K72.01', 'K72.10', 'K72.11', 'K72.90', 'K72.91', 'K91.82', 'A52.74', 'B67.0', 'B67.5', 'K70.0', 'K70.2', 'K70.30', 'K70.31', 'K70.9', 'K71..0', 'K71..10', 'K71..11', 'K71..7', 'K71..8', 'K71..9', 'K74.0', 'K74.00', 'K74.01', 'K74.02', 'K74.1', 'K74.2', 'K74.3', 'K74.4', 'K74.5', 'K74.60', 'K74.69', 'K75.1', 'K75.89', 'K75.9', 'K76.0', 'K76.1', 'K76.2', 'K76.3', 'K76.4', 'K76.5', 'K76.6', 'K76.7', 'K76.81', 'K76.89', 'K76.9', 'K77', 'O26.611', 'O26.612', 'O26.613', 'O26.619', 'O26.62', 'O26.63', 'K71..2', 'K71.3', 'K71.4', 'K71.50', 'K71.51', 'K71.6', 'K73.0', 'K73.1', 'K73.2', 'K73.8', 'K73.9', 'K75.2', 'K75.3', 'K75.4', 'K75.81', 'A51.45', 'B00.81', 'B15.0', 'B15.9', 'B16.0', 'B16.1', 'B16.2', 'B16.9', 'B17.0', 'B17.10', 'B17.11', 'B17.2', 'B17.8', 'B17.9', 'B18.0', 'B18.1', 'B18.2', 'B18.8', 'B18.9', 'B19.0', 'B19.10', 'B19.11', 'B19.20', 'B19.21', 'B19.9', 'B25.1', 'B26.81', 'B58.1', 'K70.10', 'K70.11', 'O98.411', '098.412', 'O98.413', 'O98.419', 'O98.42', 'O98.43', 'P35.3', 'K71', 'K71.0', 'K71.1', 'K71.10', 'K71.11', 'K71.2', 'K71.5', 'K71.8', 'K71.9')

Obesity = ('E66.01', 'E66.09', 'E66.1', 'E66.2', 'E66.8', 'E66.9', 'O99.210', 'O99.211', 'O99.212', 'O99.213', 'O99.214', 'O99.215', 'Z68.30', 'Z68.31', 'Z68.32', 'Z68.33', 'Z68.34', 'Z68.35', 'Z68.36', 'Z68.37', 'Z68.38', 'Z68.39', 'Z68.41', 'Z68.42', 'Z68.43', 'Z68.44', 'Z68.45', 'Z68.54') OR
BMI 30-90

