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| **Supplementary Table 1.** Admission demographics by weekday or weekend. | | | | |
|  | Total  Admissions | Weekday Admission | Weekend Admission | *P* |
| N, Admissions | 390,745 | 298,479 | 92,266 |  |
| Median Age, Years (IQR) | 4 (1,11) | 5 (1,11) | 4 (1,10) | <0.001 |
| Age, N (%) |  |  |  |  |
| 0-30 days | 21,861 (5.6) | 15,747 (5.3) | 6,114 (6.6) | <0.001 |
| 31-365 days | 65,509 (16.8) | 49,282 (16.5) | 16,227 (17.6) |  |
| 1-4 years | 108,454 (27.8) | 81,606 (27.3) | 26,848 (29.1) |  |
| 5-9 years | 78,695 (20.1) | 60,356 (20.2) | 18,339 (19.9) |  |
| 10-14 years | 70,288 (18.0) | 55,264 (18.5) | 15,024 (16.3) |  |
| 15-17 years | 45,938 (11.8) | 36,224 (12.1) | 9,714 (10.5) |  |
| Male Gender, N (%) | 210,125 (53.8) | 160,074 (53.6) | 50,051 (54.3) | <0.001 |
| Race/Ethnicity, N (%) |  |  |  | <0.001 |
| Non-Hispanic White | 188,101 (48.1) | 145,411 (48.7) | 42,690 (46.3) |  |
| Non-Hispanic Black | 73,992 (18.9) | 55,759 (18.7) | 18,233 (19.8) |  |
| Hispanic | 88,526 (22.7) | 66,887 (22.4) | 21,639 (23.5) |  |
| Asian | 10,431 (2.7) | 7,813 (2.6) | 2,618 (2.8) |  |
| Native American | 893 (0.2) | 660 (0.2) | 233 (0.3) |  |
| Other | 28,802 (7.4) | 21,949 (7.4) | 6,853 (7.4) |  |
| Payer, N (%) |  |  |  | <0.001 |
| Government | 229,672 (58.8) | 174,932 (58.6) | 54,740 (59.3) |  |
| Commercial | 153,752 (39.3) | 117,848 (39.5) | 35,904 (38.9) |  |
| Other | 7,321 (1.9) | 5,699 (1.9) | 1,622 (1.8) |  |
| Median Household Income, N (%) |  |  |  | 0.002 |
| Q1 | 101,211 (27.0) | 76,904 (26.8) | 24,307 (27.5) |  |
| Q2 | 91,011 (24.3) | 69,506 (24.3) | 21,505 (24.3) |  |
| Q3 | 91,419 (24.4) | 70,080 (24.5) | 21,339 (24.1) |  |
| Q4 | 91,363 (24.4) | 69,974 (24.4) | 21,389 (24.2) |  |
| Any CCC, N (%) | 114,654 (29.3) | 91,705 (30.7) | 22,949 (24.9) | <0.001 |
| Technology Dependency, N (%) | 32,903 (8.4) | 26,577 (8.9) | 6,326 (6.9) | <0.001 |
| Number of Chronic Conditions, N (%) |  |  |  | <0.001 |
| 0 | 144,783 (37.1) | 105,472 (35.3) | 39,311 (42.6) |  |
| 1 | 116,973 (29.9) | 89,798 (30.1) | 27,175 (29.5) |  |
| 2 | 56,236 (14.4) | 44,788 (15.0) | 11,448 (12.4) |  |
| 3 | 29,874 (7.6) | 24,008 (8.0) | 5,866 (6.4) |  |
| 4 | 17,704 (4.5) | 14,197 (4.8) | 3,507 (3.8) |  |
| 5+ | 25,175 (6.4) | 20,216 (6.8) | 4,959 (5.4) |  |
| Admitted through ED, N (%) | 273,576 (70.0) | 199,679 (66.9) | 73,897 (80.1) | <0.001 |
| ICU Stay, N (%) | 34,164 (8.7) | 25,759 (8.6) | 8,405 (9.1) | <0.001 |
| Case Mix Index, Mean (SE) | 0.558 (0.001) | 0.569 (0.002) | 0.522 (0.003) | <0.001 |
| IQR= interquartile range, CCC= complex chronic conditions, ED= emergency department, ICU= intensive care unit, N= number, SE= standard error | | | | |

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| **Supplementary Table 2**. Discharge demographics by weekday or weekend. | | | | |
|  | Total  Discharges | Weekday Discharge | Weekend Discharge | *P* |
| N, Discharges | 390,745 | 263,324 | 127,421 |  |
| Median Age, Years (IQR) | 4 (1,11) | 5 (1,11) | 4 (1,11) | <0.001 |
| Age, N (%) |  |  |  | <0.001 |
| 0-30 days | 21,861 (5.6) | 14,319 (5.4) | 7,542 (5.9) |  |
| 31-365 days | 65,509 (16.8) | 43,384 (16.5) | 22,125 (17.4) |  |
| 1-4 years | 108,454 (27.8) | 72,532 (27.5) | 35,922 (28.2) |  |
| 5-9 years | 78,695 (20.1) | 53,604 (20.4) | 25,091 (19.7) |  |
| 10-14 years | 70,288 (18.0) | 48,218 (18.3) | 22,070 (17.3) |  |
| 15-17 years | 45,938 (11.8) | 31,267 (11.9) | 14,671 (11.5) |  |
| Male Gender, N (%) | 210,125 (53.8) | 141,651 (53.8) | 68,474 (53.8) | 0.777 |
| Race/Ethnicity, N (%) |  |  |  | <0.001 |
| Non-Hispanic White | 188,101 (48.1) | 128,096 (48.6) | 60,005 (47.1) |  |
| Non-Hispanic Black | 73,992 (18.9) | 49,715 (18.9) | 24,277 (19.1) |  |
| Hispanic | 88,526 (22.7) | 58,694 (22.3) | 29,832 (23.4) |  |
| Asian | 10,431 (2.7) | 6,886 (2.6) | 3,545 (2.8) |  |
| Native American | 893 (0.2) | 601 (0.2) | 292 (0.2) |  |
| Other | 28,802 (7.4) | 19,332 (7.3) | 9,470 (7.4) |  |
| Payer, N (%) |  |  |  | 0.268 |
| Government | 229,672 (58.8) | 154,552 (58.7) | 75,120 (59.0) |  |
| Commercial | 153,752 (39.3) | 103,846 (39.4) | 49,906 (39.2) |  |
| Other | 7,321 (1.9) | 4,926 (1.9) | 2,395 (1.9) |  |
| Median Household Income, N (%) |  |  |  | 0.783 |
| Q1 | 101,211 (27.0) | 68,158 (27.0) | 33,053 (27.0) |  |
| Q2 | 91,011 (24.3) | 61,422 (24.3) | 29,589 (24.2) |  |
| Q3 | 91,419 (24.4) | 61,635 (24.4) | 29,784 (24.3) |  |
| Q4 | 91,363 (24.4) | 61,465 (24.3) | 29,898 (24.4) |  |
| Any CCC, N (%) | 114,654 (29.3) | 78,256 (29.7) | 36,398 (28.6) | <0.001 |
| Technology Dependency, N (%) | 32,903 (8.4) | 22,661 (8.6) | 10,242 (8.0) | <0.001 |
| Number of Chronic Conditions, N (%) |  |  |  | <0.001 |
| 0 | 144,783 (37.1) | 95,228 (36.2) | 49,555 (38.9) |  |
| 1 | 116,973 (29.9) | 79,609 (30.2) | 37,364 (29.3) |  |
| 2 | 56,236 (14.4) | 38,795 (14.7) | 17,441 (13.7) |  |
| 3 | 29,874 (7.6) | 20,393 (7.7) | 9,481 (7.4) |  |
| 4 | 17,704 (4.5) | 12,123 (4.6) | 5,581 (4.4) |  |
| 5+ | 25,175 (6.4) | 17,176 (6.5) | 7,999 (6.3) |  |
| Admitted through ED, N (%) | 273,576 (70.0) | 181,656 (69.0) | 91,920 (72.1) | <0.001 |
| ICU Stay, N (%) | 34,164 (8.7) | 23,358 (8.9) | 10,806 (8.5) | <0.001 |
| Case Mix Index, Mean (SE) | 0.558 (0.001) | 0.571 (0.002) | 0.531 (0.002) | <0.001 |
| IQR= interquartile range, CCC= complex chronic conditions, ED= emergency department, ICU= intensive care unit, N= number, SE= standard error | | | | |