Figure 1. Percentage of patients undergoing continuous EEG monitoring by condition over years.

A graph of the number of companies

Description automatically generated with medium confidence

Figure 2. Adjusted Odds of Undergoing CEEG by Year (reference year 2016) by Condition. Bubble size represents volume.

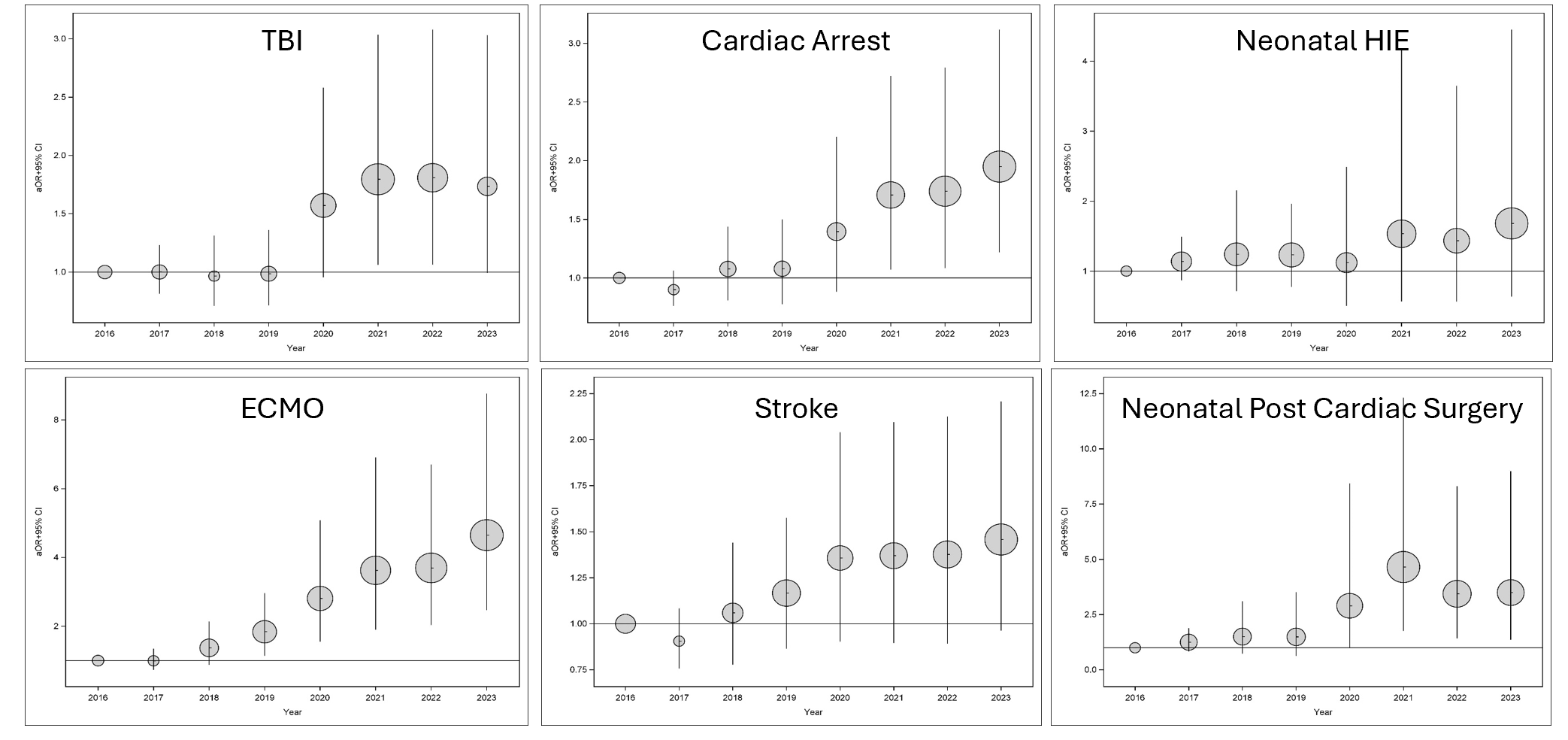


Figure 3. Adjusted Odds of Undergoing Continuous EEG by Condition. Bubble size represents volume. Bubble greyscale represents region.

A group of graphs showing different types of data

Description automatically generated with medium confidence

Table 1. Rates of CEEG Use by Cohort. Data are presented as N (% for condition and variable) or median [interquartile range].

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variable** | | **TBI** | | | **Cardiac Arrest** | | | | **ECMO** | | | **Stroke** | | | | **Neonatal HIE** | | | | **Neonatal Post Cardiac Surgery** | |
| **No CEEG** | **CEEG** | | **No CEEG** | | **CEEG** | | **No CEEG** | | **CEEG** | **No CEEG** | | **CEEG** | | **No CEEG** | | **CEEG** | | **No CEEG** | **CEEG** |
| **Year** | 2016 | 3048 (83.9) | 584 (16.1) | | 1291 (67.6) | | 620 (32.4) | | 850 (69.4) | | 374 (30.6) | 1214 (68) | | 570 (32) | | 458 (39.2) | | 711 (60.8) | | 1973 (86.7) | 303 (13.3) |
| 2017 | 2955 (83.2) | 597 (16.8) | | 1347 (68.9) | | 607 (31.1) | | 846 (69.7) | | 367 (30.3) | 1179 (70.1) | | 502 (29.9) | | 446 (34.8) | | 835 (65.2) | | 1785 (83.6) | 350 (16.4) |
| 2018 | 2598 (82.5) | 551 (17.5) | | 1316 (65.5) | | 692 (34.5) | | 850 (62.5) | | 511 (37.5) | 1107 (65.9) | | 574 (34.1) | | 449 (33) | | 910 (67) | | 1745 (82.9) | 360 (17.1) |
| 2019 | 2655 (81.4) | 605 (18.6) | | 1324 (65.8) | | 688 (34.2) | | 841 (56.7) | | 641 (43.3) | 1174 (64) | | 661 (36) | | 469 (33.4) | | 935 (66.6) | | 1761 (82.8) | 366 (17.2) |
| 2020 | 2452 (76.3) | 760 (23.7) | | 1125 (60.2) | | 744 (39.8) | | 704 (50.2) | | 699 (49.8) | 1000 (61.2) | | 633 (38.8) | | 449 (34.5) | | 851 (65.5) | | 1479 (76.2) | 461 (23.8) |
| 2021 | 2427 (72) | 942 (28) | | 1230 (55.4) | | 989 (44.6) | | 689 (44.6) | | 855 (55.4) | 1008 (60.7) | | 653 (39.3) | | 456 (31) | | 1017 (69) | | 1300 (69.4) | 573 (30.6) |
| 2022 | 2252 (72.1) | 871 (27.9) | | 1390 (55.3) | | 1124 (44.7) | | 663 (42.3) | | 905 (57.7) | 1050 (61.1) | | 668 (38.9) | | 477 (33.5) | | 948 (66.5) | | 1454 (74.6) | 495 (25.4) |
| 2023 | 2031 (75.5) | 658 (24.5) | | 1334 (53.4) | | 1164 (46.6) | | 561 (36.7) | | 966 (63.3) | 1048 (58.9) | | 730 (41.1) | | 469 (29.6) | | 1117 (70.4) | | 1347 (73.8) | 477 (26.2) |
| **Hospital Region** | Midwest | 4071 (70.8) | 1677 (29.2) | | 2683 (56.8) | | 2041 (43.2) | | 2662 (64.5) | | 1467 (35.5) | 2202 (62.6) | | 1317 (37.4) | | 1440 (43.1) | | 1901 (56.9) | | 3077 (77.5) | 893 (22.5) |
| Northeast | 2576 (77.5) | 748 (22.5) | | 952 (50.5) | | 933 (49.5) | | 513 (32.1) | | 1083 (67.9) | 1049 (56.6) | | 803 (43.4) | | 204 (19.5) | | 843 (80.5) | | 1269 (52.2) | 1161 (47.8) |
| South | 6556 (74.4) | 2250 (25.6) | | 4088 (62.9) | | 2413 (37.1) | | 1788 (50.6) | | 1746 (49.4) | 2998 (62.1) | | 1827 (37.9) | | 757 (20.8) | | 2880 (79.2) | | 5188 (92) | 454 (8) |
| West | 7215 (89) | 893 (11) | | 2634 (68) | | 1241 (32) | | 1041 (50.5) | | 1022 (49.5) | 2531 (70.8) | | 1044 (29.2) | | 1272 (42.8) | | 1700 (57.2) | | 3310 (79.1) | 877 (20.9) |
| **Age** | 0-30 days | 704 (79) | 187 (21) | | 2646 (70.7) | | 1096 (29.3) | | 2571 (51.4) | | 2433 (48.6) | 1050 (57.8) | | 766 (42.2) | | 3673 (33.4) | | 7324 (66.6) | | 12844 (79.1) | 3385 (20.9) |
| 31 days - 1 year | 3387 (63) | | 1990 (37) | | 2588 (59.1) | 1793 (40.9) | 1176 (54.1) | | 998 (45.9) | | | 1938 (58.4) | | 1381 (41.6) | | Not Applicable | | Not Applicable | | |
| 1-6 years | 6278 (80.5) | | 1517 (19.5) | | 2364 (57.1) | 1774 (42.9) | 1022 (54.5) | | 852 (45.5) | | | 1871 (62.6) | | 1117 (37.4) | |
| 7-13 years | 5830 (85.5) | | 991 (14.5) | | 1373 (58.5) | 973 (41.5) | 598 (53.7) | | 516 (46.3) | | | 2050 (68.2) | | 954 (31.8) | |
| 14-17 years | 4084 (82.9) | | 844 (17.1) | | 1125 (57.6) | 829 (42.4) | 482 (52.7) | | 433 (47.3) | | | 1584 (71.3) | | 637 (28.7) | |
| 18-21 years | 135 (77.6) | | 39 (22.4) | | 261 (61.6) | 163 (38.4) | 155 (64.3) | | 86 (35.7) | | | 287 (67.8) | | 136 (32.2) | |
| **Sex** | Male | 12903 (78.7) | 3483 (21.3) | | 5740 (60.5) | | 3749 (39.5) | | 3241 (52.9) | | 2887 (47.1) | 4984 (63.5) | | 2859 (36.5) | | 2167 (33.8) | | 4248 (66.2) | | 7683 (79.3) | 2002 (20.7) |
| **Race/Ethnicity** | Non-Hispanic White | 10063 (78.6) | 2738 (21.4) | | 4279 (58.8) | | 3004 (41.2) | | 3071 (54.5) | | 2559 (45.5) | 3946 (63.4) | | 2279 (36.6) | | 1623 (31.6) | | 3512 (68.4) | | 6445 (77.9) | 1832 (22.1) |
| Non-Hispanic Black | 3087 (70.5) | 1290 (29.5) | | 2245 (60.7) | | 1452 (39.3) | | 976 (51.9) | | 903 (48.1) | 1490 (62.1) | | 911 (37.9) | | 551 (31.4) | | 1202 (68.6) | | 1457 (82.9) | 301 (17.1) |
| Hispanic | 4599 (83.6) | 902 (16.4) | | 2097 (64) | | 1178 (36) | | 975 (51.3) | | 926 (48.7) | 2031 (66.4) | | 1026 (33.6) | | 707 (35.5) | | 1286 (64.5) | | 2828 (82.8) | 587 (17.2) |
| Asian | 625 (89.3) | 75 (10.7) | | 346 (62.7) | | 206 (37.3) | | 204 (51.3) | | 194 (48.7) | 375 (65.1) | | 201 (34.9) | | 172 (39.8) | | 260 (60.2) | | 346 (75.7) | 111 (24.3) |
| Other | 2044 (78.4) | 563 (21.6) | | 1390 (63.8) | | 788 (36.2) | | 778 (51.4) | | 736 (48.6) | 938 (62) | | 574 (38) | | 620 (36.8) | | 1064 (63.2) | | 1768 (76.1) | 554 (23.9) |
| **Prior History of Seizures or Epilepsy** | | 173 (71.2) | 70 (28.8) | | 754 (55.9) | | 596 (44.1) | | 115 (39.9) | | 173 (60.1) | 626 (61.9) | | 386 (38.1) | | 0 (0) | | 0 (0) | | 3 (100) | 0 (0) |
| **APR-DRG SOI/ROM** | Median [IQR] | 2 [1,3] | 4 [3,4] | | 4 [4,4] | | 4 [4,4] | | 4 [3,4] | | 4 [4,4] | 4 [3,4] | | 4 [4,4] | | 4 [3,4] | | 4 [3,4] | | 4 [3,4] | 4 [4,4] |
| 1 | 6709 (97.3) | 183 (2.7) | | 171 (77.7) | | 49 (22.3) | | 439 (59.1) | | 304 (40.9) | 399 (86.6) | | 62 (13.4) | | 101 (34.8) | | 189 (65.2) | | 50 (78.1) | 14 (21.9) |
| 2 | 5000 (90.3) | 535 (9.7) | | 485 (74.7) | | 164 (25.3) | | 632 (56.9) | | 478 (43.1) | 842 (82.5) | | 179 (17.5) | | 563 (38.1) | | 915 (61.9) | | 889 (81.2) | 206 (18.8) |
| 3 | 4267 (78.1) | 1199 (21.9) | | 1714 (71.3) | | 690 (28.7) | | 1052 (76.8) | | 318 (23.2) | 2160 (74.5) | | 739 (25.5) | | 1099 (33.6) | | 2174 (66.4) | | 2862 (82.6) | 602 (17.4) |
| 4 | 4441 (54.9) | 3650 (45.1) | | 7974 (58.2) | | 5720 (41.8) | | 3868 (47.9) | | 4213 (52.1) | 5369 (57.2) | | 4011 (42.8) | | 1902 (32) | | 4037 (68) | | 8989 (77.8) | 2559 (22.2) |
| **Payor** | Government | 10920 (74.5) | 3734 (25.5) | | 6123 (60.1) | | 4062 (39.9) | | 3090 (51.3) | | 2928 (48.7) | 4637 (62.6) | | 2774 (37.4) | | 1928 (33.1) | | 3905 (66.9) | | 6562 (80.7) | 1573 (19.3) |
| Private | 8498 (84.5) | 1553 (15.5) | | 3845 (62.4) | | 2313 (37.6) | | 2636 (54.8) | | 2175 (45.2) | 3711 (65.3) | | 1970 (34.7) | | 1642 (34.2) | | 3153 (65.8) | | 5892 (77.7) | 1695 (22.3) |
| Other | 1000 (78.1) | 281 (21.9) | | 389 (60.6) | | 253 (39.4) | | 278 (56.4) | | 215 (43.6) | 432 (63.6) | | 247 (36.4) | | 103 (27.9) | | 266 (72.1) | | 390 (76.9) | 117 (23.1) |
| **Childhood Opportunity Index** | Very low | 5404 (76.7) | 1642 (23.3) | | 3024 (63.5) | | 1740 (36.5) | | 1518 (55.1) | | 1237 (44.9) | 2245 (63.9) | | 1271 (36.1) | | 869 (34) | | 1684 (66) | | 3246 (85.8) | 538 (14.2) |
| Low | 4561 (76.6) | 1397 (23.4) | | 2246 (60.9) | | 1441 (39.1) | | 1211 (50.6) | | 1180 (49.4) | 1791 (61.8) | | 1108 (38.2) | | 769 (31.2) | | 1696 (68.8) | | 2906 (81.6) | 655 (18.4) |
| Moderate | 3794 (77.7) | 1088 (22.3) | | 1936 (59) | | 1344 (41) | | 1256 (53) | | 1115 (47) | 1654 (63.8) | | 938 (36.2) | | 678 (31.2) | | 1497 (68.8) | | 2575 (77.8) | 733 (22.2) |
| High | 3441 (79.9) | 864 (20.1) | | 1760 (59.9) | | 1177 (40.1) | | 1198 (53.8) | | 1027 (46.2) | 1569 (64.1) | | 877 (35.9) | | 700 (33.7) | | 1375 (66.3) | | 2380 (76.3) | 741 (23.7) |
| Very High | 3120 (84.9) | 555 (15.1) | | 1319 (59.6) | | 894 (40.4) | | 796 (52.2) | | 728 (47.8) | 1450 (65.5) | | 763 (34.5) | | 640 (38) | | 1044 (62) | | 1680 (70.4) | 706 (29.6) |
| Missing | 98 (81.7) | 22 (18.3) | | 72 (69.2) | | 32 (30.8) | | 25 (44.6) | | 31 (55.4) | 71 (67.6) | | 34 (32.4) | | 17 (37.8) | | 28 (62.2) | | 57 (82.6) | 12 (17.4) |

Table 2. Multivariable Analysis of CEEG Use by Cohort. Bold text indicates significant difference (p<0.05). Data are presented as adjusted odds ratio (aOR) with 95% confidence interval (95% CI).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Variable** | | **TBI** | | **Cardiac Arrest** | | **ECMO** | | **Stroke** | | **Neonatal HIE** | | **Neonatal Post Cardiac Surgery** | |
| **aOR (95% CI)** | **p-value** | **aOR (95% CI)** | **p-value** | **aOR (95% CI)** | **p-value** | **aOR (95% CI)** | **p-value** | **aOR (95% CI)** | **p-value** | **aOR (95% CI)** | **p-value** |
| **Year** | 2016 | Referent | | Referent | | Referent | | Referent | | Referent | | Referent | |
| 2017 | 1.00 (0.81,1.23) | 0.994 | 0.90 (0.76,1.06) | 0.214 | 0.99 (0.73,1.35) | 0.966 | 0.91 (0.76,1.08) | 0.281 | 1.14 (0.87,1.49) | 0.352 | 1.25 (0.83,1.88) | 0.283 |
| 2018 | 0.97 (0.71,1.31) | 0.825 | 1.08 (0.81,1.44) | 0.615 | 1.37 (0.88,2.14) | 0.164 | 1.06 (0.78,1.44) | 0.714 | 1.24 (0.71,2.15) | 0.444 | 1.50 (0.73,3.1) | 0.268 |
| 2019 | 0.99 (0.71,1.36) | 0.929 | 1.08 (0.78,1.5) | 0.656 | **1.84 (1.14,2.96)** | **0.012** | 1.17 (0.86,1.58) | 0.314 | 1.23 (0.77,1.96) | 0.380 | 1.49 (0.63,3.52) | 0.363 |
| 2020 | 1.57 (0.96,2.58) | 0.075 | 1.39 (0.88,2.2) | 0.154 | **2.81 (1.55,5.09)** | **<.001** | 1.36 (0.90,2.04) | 0.142 | 1.12 (0.50,2.49) | 0.780 | 2.90 (0.99,8.44) | 0.051 |
| 2021 | **1.8 (1.06,3.04)** | **0.029** | **1.71 (1.07,2.72)** | **0.025** | **3.63 (1.90,6.91)** | **<.001** | 1.37 (0.90,2.10) | 0.146 | 1.53 (0.57,4.15) | 0.399 | **4.65 (1.76,12.32)** | **0.002** |
| 2022 | **1.81 (1.06,3.08)** | **0.029** | **1.74 (1.08,2.80)** | **0.022** | **3.7 (2.04,6.71)** | **<.001** | 1.38 (0.89,2.13) | 0.149 | 1.43 (0.56,3.65) | 0.449 | **3.44 (1.42,8.32)** | **0.006** |
| 2023 | 1.73 (0.99,3.03) | 0.053 | **1.95 (1.22,3.12)** | **0.005** | **4.65 (2.47,8.77)** | **<.001** | 1.46 (0.96,2.21) | 0.075 | 1.68 (0.64,4.45) | 0.295 | **3.5 (1.36,8.99)** | **0.009** |
| **Age** | 0-30 days | **2.51 (1.95,3.21)** | **<.001** | **0.47 (0.40,0.55)** | **<.001** | 1.34 (0.98,1.82) | 0.067 | **1.38 (1.10,1.73)** | **0.005** | Not Applicable | | Not Applicable | |
| 31 days - 1 year | **4.71 (3.66,6.05)** | **<.001** | **0.86 (0.76,0.99)** | **0.032** | **1.35 (1.04,1.74)** | **0.022** | **1.45 (1.24,1.71)** | **<.001** |
| 1-6 years | **1.54 (1.40,1.70)** | **<.001** | 1 (0.90,1.11) | 0.960 | 1.12 (0.92,1.36) | 0.269 | **1.33 (1.20,1.47)** | **<.001** |
| 7-13 years | 1.03 (0.93,1.13) | 0.608 | 0.95 (0.84,1.09) | 0.481 | 1.09 (0.84,1.41) | 0.521 | 1.08 (0.95,1.22) | 0.246 |
| 14-17 years | Referent | | Referent | | Referent | | Referent | |
| 18-21 years | 1.22 (0.70,2.12) | 0.489 | **0.81 (0.67,0.99)** | **0.039** | 0.65 (0.42,1.01) | 0.053 | 1.11 (0.84,1.47) | 0.450 |
| **Sex** | Female | 0.98 (0.88,1.08) | 0.618 | **0.94 (0.88,0.99)** | **0.033** | 0.97 (0.91,1.04) | 0.445 | 0.95 (0.87,1.03) | 0.216 | 1.04 (0.92,1.17) | 0.557 | **1.12 (1.03,1.22)** | **0.007** |
| **Race/Ethnicity** | Non-Hispanic White | Referent | | Referent | | Referent | | Referent | | Referent | | Referent | |
| Non-Hispanic Black | 1.13 (1.02,1.26) | 0.015 | 0.95 (0.87,1.03) | 0.179 | 1.11 (0.95,1.30) | 0.201 | 1.03 (0.92,1.16) | 0.600 | 1.07 (0.93,1.23) | 0.359 | 0.97 (0.75,1.25) | 0.808 |
| Hispanic | 1.00 (0.90,1.12) | 0.996 | 0.93 (0.84,1.04) | 0.188 | 1.04 (0.90,1.20) | 0.590 | 1.01 (0.91,1.13) | 0.808 | 1.06 (0.85,1.31) | 0.625 | 0.96 (0.82,1.13) | 0.648 |
| Asian | 0.91 (0.7,1.18) | 0.468 | 1.01 (0.84,1.21) | 0.948 | **1.52 (1.19,1.94)** | **<.001** | 1.05 (0.83,1.34) | 0.675 | 1.07 (0.84,1.38) | 0.577 | 0.98 (0.75,1.29) | 0.901 |
| Other | 0.98 (0.84,1.15) | 0.834 | 0.91 (0.81,1.01) | 0.088 | 1.03 (0.82,1.29) | 0.801 | 1.16 (0.99,1.37) | 0.074 | 1.05 (0.91,1.21) | 0.506 | 1.16 (1.00,1.35) | 0.050 |
| **Patient History of Seizures/Epilepsy** | | 1.39 (0.97,2.00) | 0.072 | 1.04 (0.91,1.19) | 0.592 | **1.77 (1.26,2.48)** | **0.001** | **1.16 (1.01,1.33)** | **0.041** |  |  |  |  |
| **APR-DRG SOI/ROM** | 1 | Referent | | Referent | | Referent | | Referent | | Referent | | Referent | |
| 2 | **3.74 (3.05,4.59)** | **<.001** | 1.24 (0.73,2.10) | 0.429 | 0.82 (0.66,1.01) | 0.059 | **1.46 (1.13,1.88)** | **0.003** | 0.95 (0.61,1.49) | 0.834 | 0.89 (0.36,2.22) | 0.808 |
| 3 | **11.05 (9.04,13.52)** | **<.001** | 1.36 (0.82,2.26) | 0.237 | **0.32 (0.21,0.48)** | **<.001** | **2.44 (1.97,3.01)** | **<.001** | 1.42 (0.93,2.17) | 0.103 | 1.43 (0.61,3.33) | 0.407 |
| 4 | **39.23 (28.73,53.56)** | **<.001** | **2.83 (1.71,4.68)** | **<.001** | 1.14 (0.71,1.81) | 0.594 | **5.38 (4.30,6.73)** | **<.001** | **1.52 (1.02,2.27)** | **0.042** | **2.92 (1.32,6.45)** | **0.008** |
| **Payor** | Government | Referent | | Referent | | Referent | | Referent | | Referent | | Referent | |
| Private | **0.82 (0.73,0.92)** | **<.001** | **0.86 (0.81,0.91)** | **<.001** | 0.95 (0.85,1.06) | 0.337 | 0.95 (0.88,1.03) | 0.231 | 1.00 (0.88,1.14) | 1.000 | 0.91 (0.8,1.03) | 0.141 |
| Other | **0.80 (0.67,0.96)** | **0.015** | **0.70 (0.56,0.88)** | **0.002** | 0.82 (0.6,1.13) | 0.233 | **0.78 (0.65,0.93)** | **0.008** | 1.06 (0.69,1.64) | 0.783 | **0.57 (0.47,0.70)** | **<.001** |
| **Childhood Opportunity Index** | Very low | Referent | | Referent | | Referent | | Referent | | Referent | | Referent | |
| Low | 1.04 (0.95,1.13) | 0.402 | 1.07 (0.94,1.21) | 0.290 | 1.04 (0.92,1.17) | 0.556 | 1.04 (0.92,1.17) | 0.568 | 1.00 (0.84,1.19) | 0.996 | 0.88 (0.76,1.02) | 0.097 |
| Moderate | 1.07 (0.98,1.17) | 0.144 | **1.13 (1.02,1.24)** | **0.016** | 1.11 (0.96,1.28) | 0.150 | 0.97 (0.87,1.08) | 0.560 | 1.05 (0.89,1.24) | 0.588 | 1.02 (0.9,1.17) | 0.723 |
| High | **1.14 (1.03,1.27)** | **0.011** | 1.10 (0.98,1.24) | 0.120 | 1.13 (0.94,1.36) | 0.196 | 1.02 (0.89,1.17) | 0.761 | 1.19 (1,1.41) | 0.052 | 0.95 (0.85,1.07) | 0.390 |
| Very High | **1.18 (1.02,1.35)** | **0.021** | 1.12 (0.98,1.27) | 0.094 | 0.96 (0.82,1.13) | 0.618 | 0.99 (0.88,1.13) | 0.915 | 1.14 (0.92,1.40) | 0.229 | 0.99 (0.85,1.16) | 0.907 |
| Missing | 0.91 (0.5,1.65) | 0.753 | 0.78 (0.53,1.13) | 0.184 | 1.32 (0.66,2.64) | 0.439 | 0.81 (0.59,1.13) | 0.216 | **0.37 (0.17,0.81)** | **0.012** | 0.7 (0.41,1.19) | 0.188 |

Supplemental Table. Demographics by Cohort. Data are presented as N (%).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Variable** | | **TBI** | **Cardiac Arrest** | **ECMO** | **Stroke** | **Neonatal HIE** | **Neonatal Post Cardiac Surgery** |
| **N** | | 25986 | 16985 | 11322 | 13771 | 10997 | 16229 |
| **Year** | 2016 | 3632 (14) | 1911 (11.3) | 1224 (10.8) | 1169 (10.6) | 2276 (14) | 1784 (13) |
| 2017 | 3552 (13.7) | 1954 (11.5) | 1213 (10.7) | 1281 (11.6) | 2135 (13.2) | 1681 (12.2) |
| 2018 | 3149 (12.1) | 2008 (11.8) | 1361 (12) | 1359 (12.4) | 2105 (13) | 1681 (12.2) |
| 2019 | 3260 (12.5) | 2012 (11.8) | 1482 (13.1) | 1404 (12.8) | 2127 (13.1) | 1835 (13.3) |
| 2020 | 3212 (12.4) | 1869 (11) | 1403 (12.4) | 1300 (11.8) | 1940 (12) | 1633 (11.9) |
| 2021 | 3369 (13) | 2219 (13.1) | 1544 (13.6) | 1473 (13.4) | 1873 (11.5) | 1661 (12.1) |
| 2022 | 3123 (12) | 2514 (14.8) | 1568 (13.8) | 1425 (13) | 1949 (12) | 1718 (12.5) |
| 2023 | 2689 (10.3) | 2498 (14.7) | 1527 (13.5) | 1586 (14.4) | 1824 (11.2) | 1778 (12.9) |
| **Hospital**  **Region** | Midwest | 5748 (22.1) | 4724 (27.8) | 4129 (36.5) | 3341 (30.4) | 3970 (24.5) | 3519 (25.6) |
| Northeast | 3324 (12.8) | 1885 (11.1) | 1596 (14.1) | 1047 (9.5) | 2430 (15) | 1852 (13.4) |
| South | 8806 (33.9) | 6501 (38.3) | 3534 (31.2) | 3637 (33.1) | 5642 (34.8) | 4825 (35) |
| West | 8108 (31.2) | 3875 (22.8) | 2063 (18.2) | 2972 (27) | 4187 (25.8) | 3575 (26) |
| **Sex** | Female | 9458 (36.4) | 7397 (43.6) | 5187 (45.8) | 4569 (41.5) | 6529 (40.2) | 5917 (43) |
| **Race/Ethnicity** | Non-Hispanic White | 12801 (49.3) | 7283 (42.9) | 5630 (49.7) | 5135 (46.7) | 8277 (51) | 6225 (45.2) |
| Non-Hispanic Black | 4377 (16.8) | 3697 (21.8) | 1879 (16.6) | 1753 (15.9) | 1758 (10.8) | 2401 (17.4) |
| Hispanic | 5501 (21.2) | 3275 (19.3) | 1901 (16.8) | 1993 (18.1) | 3415 (21) | 3057 (22.2) |
| Asian | 700 (2.7) | 552 (3.2) | 398 (3.5) | 432 (3.9) | 457 (2.8) | 576 (4.2) |
| Other | 2607 (10) | 2178 (12.8) | 1514 (13.4) | 1684 (15.3) | 2322 (14.3) | 1512 (11) |
| **Patient History of Seizures/Epilepsy** | | 243 (0.9) | 1350 (7.9) | 288 (2.5) | 0(0) | 3 (0) | 1012 (7.3) |
| **APR-DRG SOI/ROM** | median iqr | 3 [1,4] | 4 [4,4] | 4 [3,4] | 4 [3,4] | 4 [3,4] | 4 [3,4] |
| 1 | 6892 (26.5) | 220 (1.3) | 743 (6.6) | 290 (2.6) | 64 (0.4) | 461 (3.3) |
| 2 | 5535 (21.3) | 649 (3.8) | 1110 (9.8) | 1478 (13.4) | 1095 (6.7) | 1021 (7.4) |
| 3 | 5466 (21) | 2404 (14.2) | 1370 (12.1) | 3273 (29.8) | 3464 (21.3) | 2899 (21.1) |
| 4 | 8091 (31.1) | 13694 (80.6) | 8081 (71.4) | 5939 (54) | 11548 (71.2) | 9380 (68.1) |
| **Payor** | Government | 14654 (56.4) | 10185 (60) | 6018 (53.2) | 5833 (53) | 8135 (50.1) | 7411 (53.8) |
| Private | 10051 (38.7) | 6158 (36.3) | 4811 (42.5) | 4795 (43.6) | 7587 (46.7) | 5681 (41.3) |
| Other | 1281 (4.9) | 642 (3.8) | 493 (4.4) | 369 (3.4) | 507 (3.1) | 679 (4.9) |
| **Childhood Opportunity Index** | Very low | 7046 (27.1) | 4764 (28) | 2755 (24.3) | 2553 (23.2) | 3784 (23.3) | 3516 (25.5) |
| Low | 5958 (22.9) | 3687 (21.7) | 2391 (21.1) | 2465 (22.4) | 3561 (21.9) | 2899 (21.1) |
| Moderate | 4882 (18.8) | 3280 (19.3) | 2371 (20.9) | 2175 (19.8) | 3308 (20.4) | 2592 (18.8) |
| High | 4305 (16.6) | 2937 (17.3) | 2225 (19.7) | 2075 (18.9) | 3121 (19.2) | 2446 (17.8) |
| Very High | 3675 (14.1) | 2213 (13) | 1524 (13.5) | 1684 (15.3) | 2386 (14.7) | 2213 (16.1) |
| Missing | 120 (0.5) | 104 (0.6) | 56 (0.5) | 45 (0.4) | 69 (0.4) | 105 (0.8) |