**Supplementary Table 2. Patient Characteristics by Cancer Type and Age Patient**

| Cancer Type | Colon | | Gastric | | Esophageal | | Pancreatic | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Age | 18-49 | >49 | 18-49 | >49 | 18-49 | >49 | 18-49 | >49 |
| Total n | 110.848 | 1,074,132 | 5,966 | 49,979 | 1,479 | 14,328 | 1,990 | 13,520 |
| Obese | 9,467 (8.5%) | 76,459 (7.1%) | 410  (6.9%) | 2,595 (5.2%) | 102  (6.9%) | 854  (6.0%) | 200 (10.0%) | 1,030 (7.6%) |
| Sex, Female | 52,816 (47.9%) | 540,554 (50.4%) | 2,945 (49.8%) | 22,157 (44.4%) | 307 (20.8%) | 2,786 (19.4%) | 1,310 (66.5%) | 7,003 (51.8%) |
| Hospital Length of Stay, median (IQR) | 6 (4-9) | 7 (5-11) | 7 (6-11) | 9 (6-14) | 10 (8-17) | 11 (8-19) | 6 (5-9) | 7 (5-10) |
| Primary Payer |  |  |  |  |  |  |  |  |
| Medicare | 4,383 (4.0%) | 693,839 (64.6%) | 264  (4.4%) | 32,347 (64.7%) | 107  (7.2%) | 6,990 (48.8%) | 72  (3.6%) | 7,723 (57.1%) |
| Medicaid | 14,525 (13.1%) | 38,864 (3.6%) | 1,182 (19.8%) | 3,377 (6.8%) | 347 (23.5%) | 852  (5.9%) | 328 (16.5%) | 440  (3.3%) |
| Private Insurance | 79,309 (71.5%) | 298,745 (27.8%) | 3,615 (60.6%) | 12,043 (24.1%) | 952 (64.4%) | 5,876 (41.0%) | 1,395 (70.1%) | 4,817 (35.6%) |
| Other/Unknown | 12,631 (11.4%) | 42,684 (4.0%) | 906 (15.2%) | 2,213 (4.4%) | 73  (4.9%) | 610  (4.3%) | 195  (9.8%) | 540  (4.0%) |
| Income Quartile |  |  |  |  |  |  |  |  |
| First Quartile | 23,348 (21.1%) | 237,271 (22.1%) | 1,351 (22.6%) | 12,253 (24.5%) | 337 (22.8%) | 2,768 (19.3%) | 448 (22.5%) | 2,641 (19.5%) |
| Second Quartile | 24,258 (21.9%) | 253,168 (23.6%) | 1,206 (20.2%) | 10,683 (21.4%) | 353 (23.9%) | 3,342 (23.3%) | 472 (23.7%) | 2,979 (22.0%) |
| Third Quartile | 25,484 (23.0%) | 239,578 (22.3%) | 1,274 (21.4%) | 10,375 (20.8%) | 332 (22.5%) | 3,584 (25.0%) | 416 (20.9%) | 3,280 (24.3%) |
| Fourth Quartile | 26,907 (24.3%) | 225,445 (21.0%) | 1,365 (22.9%) | 11,032 (22.1%) | 296 (20.0%) | 3,388 (23.6%) | 506 (25.4%) | 3,769 (27.9%) |
| Missing | 10,850 (9.8%) | 118,670 (11.0%) | 771 (12.9%) | 5,637 (11.3%) | 160 (10.9%) | 1,247 (8.7%) | 147  (7.4%) | 851  (6.3%) |
| Hospital Type |  |  |  |  |  |  |  |  |
| Rural | 9,638 (8.7%) | 136,901 (12.8%) | 230  (3.9%) | 3,273 (6.6%) | 53  (3.6%) | 597  (4.2%) | 66  (3.3%) | 386  (2.9%) |
| Urban nonteaching | 41,422 (37.5%) | 458,874 (42.9%) | 1,924 (32.3%) | 18,627 (37.5%) | 203 (13.7%) | 2,082 (14.6%) | 366 (18.4%) | 2,300 (17.1%) |
| Urban teaching | 59,292 (53.7%) | 474,672 (44.3%) | 3,799 (63.8%) | 27,836 (56.0%) | 1,222 (82.7%) | 11,576 (81.2%) | 1,553 (78.2%) | 10,762 (80.0%) |
| Hospital Bed Size |  |  |  |  |  |  |  |  |
| Small | 11,510 (10.4%) | 124,304 (11.6%) | 454  (7.6%) | 4,476 (9.0%) | 82  (5.5%) | 907  (6.4%) | 121  (6.1%) | 909  (6.8%) |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Medium | 25,914 (23.5%) | 266,837 (24.9%) | 1,247 (20.9%) | 11,083 (22.3%) | 233 (15.8%) | 2,415 (16.9%) | 284 (14.3%) | 2,096 (15.6%) |
| Large | 72,928 (66.1%) | 679,307 (63.5%) | 4,252 (71.4%) | 34,178 (68.7%) | 1,164 (78.7%) | 10,933 (76.7%) | 1,581 (79.6%) | 10,443 (77.7%) |
| Elixhauser Score (excluding obesity) |  |  |  |  |  |  |  |  |
| 0 | 27,050 (24.4%) | 107,905 (10.0%) | 1,434 (24.0%) | 3,908 (7.8%) | 281 (19.0%) | 1,658 (11.6%) | 549 (27.6%) | 1,173 (8.7%) |
| 1-2 | 61,956 (55.9%) | 493,155 (45.9%) | 3,233 (54.2%) | 21,357 (42.7%) | 792 (53.5%) | 6,955 (48.5%) | 1,114 (56.0%) | 6,439 (47.6%) |
| 3-4 | 18,066 (16.3%) | 337,308 (31.4%) | 1,077 (18.1%) | 17,538 (35.1%) | 306 (20.7%) | 4,115 (28.7%) | 304 (15.3%) | 4,484 (33.2%) |
| >4 | 3,052 (2.8%) | 124,188 (11.6%) | 204  (3.4%) | 6,765 (13.5%) | 77  (5.2%) | 1,419 (9.9%) | 18  (0.9%) | 1,357 (10.0%) |
| Not Available\* | 723  (0.7%) | 11,576 (1.1%) | 18  (0.3%) | 411  (0.8%) | 24  (1.6%) | 182  (1.3%) | ≤10 | 67 (0.5%) |
| Elective Admission | 75,843 (68.6%) | 716,617 (66.9%) | 4,067 (68.3%) | 34,162 (68.5%) | 1,272 (86.0%) | 12,768 (89.3%) | 1,623 (81.8%) | 11,912 (88.2%) |