**Supplemental Table 1. Characteristics for Patients Hospitalized for Acute Myocardial Infarction, Heart Failure and Pneumonia.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Acute Myocardial Infarction** | **Heart Failure** | **Pneumonia** |
|  | 2 year | 3 years | 2 year | 3 years | 2 year | 3 years |
| Total No. of Hospitals | 61 | 65 | 104 | 107 | 108 | 110 |
| Total No. of Patients | 6,782 | 10,822 | 21,398 | 30,427 | 21,452 | 34,184 |
| Total No. of Readmissions | 1,953 (20.1) | 2,235 (20.7%) | 4498 (20.1%) | 6365 (20.9%) | 3259 (17.9%) | 5239 (17.2%) |
| **Patient Demographics** |
| Age, mean (SD), years | 76.9 ± 8.3 | 75.9 ± 8.5 | 76.8 ± 8.5 | 77.8 ± 8.7 | 79.1 ± 8.5 | 78.0 ± 8.7 |
| Male | 7234 (97.9) | 10676 (98.7) | 20321 (97.9) | 29987 (98.6) | 21472 (98.0) | 29991 (98.2) |
| **Cardiovascular Medical History, Total No. (%)** |
|  PCI | 2163 (28.8) | 2925 (27.0) | -- | -- | -- | -- |
|  CABG | 4767 (69.0) | 7374 (68.1) | 1509 (71.3) | 21337 (70.1) | 1387 (61.4) | 18417 (60.3) |
|  Heart Failure | 3325 (45.5) | 4958 (45.8) | 21986 (94.6) | 28448 (93.5) | 7954 (38.3) | 11398 (37.3) |
|  Anterior MI | 398 (4.9) | 513 (4.7) | -- | -- | -- | -- |
|  Inferior, Lateral, or Posterior MI | 379(5.1) | 546 (5.0) | -- | -- | -- | -- |
|  Acute Coronary Syndrome | 4652 (66.6) | 6825 (63.1) | 4101 (18.9) | 5111 (16.8) | 1702 (8.3) | 2335 (7.6) |
|  Coronary Atherosclerosis | 6509 (89.8) | 9519 (88.0) | 1286 (54.4) | 16168 (53.1) | 9012 (46.3) | 14012 (45.9) |
|  Cardiopulmonary-respiratory failure and shock | -- | -- | 5045 (24.3) | 6552 (21.5) | -- | -- |
|  Valvular Heart Disease | 1301 (17.4) | 1863 (17.2) | 6109 (28.5) | 8589 (28.2) | 2303 (11.5) | 3385 (11.1) |
|  Arrhythmia | 2907 (44.1) | 4857 (44.9) | 1423 (69.3) | 20940 (68.8) | 9543 (43.7) | 13145 (43.0) |
|  Other unspecified heart disease | -- | -- | 3908 (18.4) | 5257 (17.3) | -- | -- |
|  Stroke | 609 (10.1) | 1110 (10.3) | 2109 (11.2) | 3262 (10.7) | 2075 (10.7) | 3166 (10.4) |
|  Cerebrovascular disease | 1097 (15.8) | 1719 (15.9) | -- | -- | 6124 (26.0) | 9633 (24.0) |
| **Comorbid Conditions, Total No. (%)** |
|  Renal Failure | 3087 (44.7) | 4900 (45.3) | 11988 (59.8) | 17786 (58.5) | 8976 (43.7) | 12793 (40.9) |
|  COPD | 2315 (31.2) | 3344 (30.9) | 10975 (48.9) | 14772 (48.5) | 1289 (58.9) | 17654 (57.8) |
|  Pneumonia | 1309 (19.6) | 2127 (19.7) | 6523 (30.9) | 8915 (29.3) | 16054 (78.8) | 23419 (76.7) |
|  Diabetes | 3907 (55.1) | 5799 (53.6) | 12378 (60.5) | 17904 (58.8) | 9054 (44.4) | 13209 (43.2) |
|  Protein-calorie malnutrition | 254 (3.4) | 292 (2.7) | 901 (4.1) | 1178 (3.9) | 1543 (8.1) | 2247 (7.4) |
|  Dementia | 1008 (14.3) | 1508 (13.9) | 3219 (15.9) | 4733 (15.6) | 4398 (20.8) | 6893 (22.6) |
|  Functional Disability | 698 (9.4) | 992 (9.2) | 2165 (10.3) | 2922 (9.6) | 2317 (11.1) | 3155 (10.3) |
|  Peripheral vascular disease | 3208 (45.3) | 4939 (45.6) | -- | -- | 6712 (32.6) | 9755 (31.9) |
|  Metastatic cancer | 198 (2.4) | 273 (2.5) | 406 (1.8) | 606 (2.0) | 1298 (6.3) | 1798 (5.9) |
|  Major psychiatric disorders | -- | -- | 2643 (12.7) | 4526 (14.9) | 3003 (17.6) | 5083 (16.6) |
|  Chronic liver disease | -- | -- | 2108 (10.4) | 2695 (8.9) | -- | -- |
|  Severe hematologic disorders | -- | -- | 502 (2.6) | 831 (2.7) | 489 (2.3) | 1014 (3.3) |
|  Iron deficiency | 1703 (38.8) | 4253 (39.3) | 10876 (51.0) | 15369 (50.5) | 10432 (51.2) | 15426 (50.5) |
|  Depression | -- | -- | 4532 (21.3) | 6166 (20.3) | -- | -- |
|  Fibrosis of lung or other chronic lung disorder | -- | -- | 1309 (6.1) | 1863 (6.1) | 1709 (8.9) | 2777 (9.1) |
|  Asthma | 279 (3.5) | 360 (3.3) | 986 (4.4) | 1157 (3.8) | 1099 (5.6) | 1563 (5.1) |
|  End-stage renal disease | 200 (2.9) | 297 (2.7) | 399 (1.9) | 553 (1.8) | 498 (2.4) | 656 (2.1) |
|  Nephritis | -- | -- | 1098 (5.0) | 1402 (4.6) | -- | -- |
|  Urinary tract infection | -- | -- |  | -- | 4231 (20.9) | 6278 (20.6) |
|  Urinary tract disorders | 1234 (17.3) | 1819 (16.8) | 4721 (22.3) | 6799 (22.3) | 2087 (19.6) | 5783 (18.9) |
|  Pleural Effusion/Pneumothorax | -- | -- | -- | -- | 3065 (14.1) | 4118 (13.5) |
|  Other lung disorder | -- | -- | -- | -- | 6732 (28.4) | 8784 (28.8) |
|  Fluid and electrolyte disorders | 2067 (30.0) | 3256 (30.1) | 9765 (43.7) | 12837 (42.2) | 9852 (47.1) | 13882 (45.4) |
|  Other psychiatric disorders | -- | -- | 3307 (15.8) | 3616 (11.9) | 4013 (18.4) | 6821 (17.0) |
|  Drug/Alcohol Abuse | -- | -- | 4962 (25.1) | 6831 (22.5) | 5925 (27.6) | 8190 (26.8) |
|  Peptic Ulcer and other specified GI tract disorders | -- | -- | 1534 (13.0) | 3892 (12.8) | -- | -- |
|  Other GI tract disorders | -- | -- | 1289 (56.1) | 16651 (54.7) | 12997 (63.6) | 18786 (61.5) |
|  Vertebral fractures | -- | -- | -- | -- | 376 (1.5) | 496 (1.6) |
|  Other injuries | -- | -- | -- | -- | 3153 (30.1) | 9143 (29.9) |
|  Decubitus skin ulcer | 499 (7.1) | 776 (7.2) | 2762 (12.8) | 3893 (12.8) | 1121 (11.0) | 3177 (10.4) |
|  Other history of infection | 1076 (26.7) | 2938 (27.1) | -- | -- | 3810 (37.5) | 11237 (36.8) |
|  Septicemia | -- | -- | -- | -- | 1187 (11.6) | 2793 (9.1) |

**Note**: CABG, coronary artery bypass graft; COPD, chronic obstructive pulmonary disease, GI, gastrointestinal; MI, myocardial infarction; PCI, percutaneous coronary intervention; VA, Veterans Affairs. Blank spaces (--) indicate that data were not included in risk adjustment of these publicly reported measures for a given condition or outcome

**Supplemental Table 2. Distribution of 30-d Observed and Risk Standardized Readmission Rate for VA Hospitals.**

|  |  |  |
| --- | --- | --- |
|  | **Observed Readmission Rate** | **Risk Standardized Readmission Rate** |
| Mean (95% CI) | Median (25th, 75th percentile) | Range | Mean (95% CI) | Median (25th, 75th percentile) | Range |
| **Acute Myocardial Infarction** |  |
|  2 years | 0.22(0.20, 0.23) | 0.21(0.17, 0.25) | 0.11-0.60 | 0.20(0.20, 0.22) | 0.20(0.20, 0.22) | 0.16-0.26 |
|  3 years | 0.22(0.21, 0.24) | 0.21(0.18, 0.24) | 0.12-0.62 | 0.21(0.21, 0.23) | 0.21(0.19, 0.22) | 0.16-0.31 |
| **Heart Failure** |  |
|  2 years | 0.20(0.19, 0.21) | 0.20(0.17, 0.23) | 0.04-0.30 | 0.21(0.20, 0.21) | 0.21(0.20, 0.22) | 0.18-0.24 |
|  3 years | 0.20(0.20, 0.21) | 0.21(0.18, 0.23) | 0.06-0.35 | 0.21(0.21, 0.22) | 0.21(0.20, 0.22) | 0.18-0.25 |
| **Pneumonia** |  |
|  2 years | 0.16(0.15, 0.16) | 0.16(0.13, 0.19) | 0.06-0.25 | 0.17(0.17, 0.18) | 0.17(0.16, 0.18) | 0.14-0.21 |
|  3 years | 0.16(0.16, 0.17) | 0.16(0.14, 0.19) | 0.07-0.27 | 0.17(0.17, 0.18) | 0.17(0.16, 0.18) | 0.13-0.21 |



