**Appendix 2**. Comorbidities of patients with do-not-resuscitate orders with and without major depressive disorder (MDD): 2009-2013 combined, National Inpatient Sample

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Comorbidity | DNR without MDD (%) | DNR with MDD (%) | Difference (%) | p value |
| Congestive heart failure | 32.8 (32.6, 33.1) | 30.4 (29.2, 31.6) | -2.5 (-3.7, -1.3) | <0.001\* |
| Cardiac arrhythmias | 41.3 (41.1, 41.6) | 36.3 (35.2, 37.5) | -5.0 (-6.1, -3.8) | <0.001\* |
| Valvular disease | 12.4 (12.2, 12.6) | 11.1 (10.3, 11.9) | -1.3 (-2.1, -0.5) | 0.001\* |
| Pulmonary circulation disorders | 9.1 (9.0, 9.3) | 8.5 (7.8, 9.2) | -0.7 (-1.4, 0.0) | 0.050 |
| Peripheral vascular disorders | 11.0 (10.8, 11.3) | 18.9 (17.0, 21.0) | 7.9 (6.0, 9.7) | <0.001\* |
| Hypertension, uncomplicated | 44.7 (44.4, 44.9) | 42.8 (41.5, 44.0) | -1.9 (-3.1, -0.7) | 0.002\* |
| Paralysis | 3.8 (3.7, 3.8) | 3.2 (2.8, 3.6) | -0.6 (-1.0, -0.2) | 0.005\* |
| Other neurological disorders | 18.2 (18.0, 18.5) | 19.1 (18.1, 20.1) | 0.8 (-0.1, 0.2) | 0.091 |
| Chronic pulmonary disease | 34.1 (33.8, 34.3) | 36.6 (35.4, 37.9) | 2.5 (1.3, 3.8) | <0.001\* |
| Diabetes, uncomplicated | 22.2 (22.0, 22.4) | 17.0 (15.8, 18.2) | -5.2 (-6.3, -4.1) | <0.001\* |
| Diabetes, complicated | 5.5 (5.3, 5.7) | 12.7 (11.4, 14.1) | 7.2 (6.0, 8.4) | <0.001\* |
| Hypothyroidism | 19.3 (19.1, 19.4) | 23.1 (22.1, 24.2) | 3.9 (2.8, 4.9) | <0.001\* |
| Renal failure | 26.7 (26.2, 27.0) | 29.2 (27.8, 30.1) | 2.5 (1.2, 3.8) | <0.001\* |
| Liver disease | 6.4 (6.3, 6.5) | 6.7 (6.2, 7.3) | 3.3 (-0.2, 0.9) | 0.263 |
| Peptic ulcer disease excluding bleeding | 1.0 (1.0, 1.1) | 1.5 (1.2, 1.8) | 0.5 (0.2, 0.8) | 0.002\* |
| AIDS/HIV | 0.4 (0.3, 0.4) | 0.7 (0.6, 1.0) | 0.4 (0.2, 0.6) | <0.001\* |
| Lymphoma | 2.0 (2.0, 2.1) | 1.8 (1.5, 2.1) | -0.3 (-0.6, 0.0) | 0.084 |
| Metastatic Cancer | 11.5 (11.3, 11.7) | 7.6 (7.0, 8.3) | -3.9 (-3.5, -3.3) | <0.001\* |
| Solid tumor without metastasis | 15.2 (15.0, 15.4) | 10.2 (9.5, 10.9) | -5.0 (-5.7, -4.3) | <0.001\* |
| Rheumatoid Arthritis/Collagen Vascular | 3.8 (3.7, 3.9) | 5.0 (4.6, 5.5) | 1.2 (0.7, 1.7) | <0.001\* |
| Coagulopathy | 9.2 (9.1, 9.4) | 8.3 (7.7, 9.0) | -0.9 (1.5, -0.3) | 0.005\* |
| Obesity | 5.9 (5.8, 6.1) | 9.9 (9.2, 10.7) | 4.0 (3.2, 4.7) | <0.001\* |
| Weight Loss | 15.6 (15.3, 16.0) | 23.0 (21.5, 24.6) | 7.4 (6.0, 8.8) | <0.001\* |
| Fluid and Electrolyte Disorders | 46.8 (46.5, 47.2) | 43.9 (42.6, 45.3) | -2.9 (-4.2, -1.6) | <0.001\* |
| Blood Loss Anemia | 1.7 (1.7, 1.7) | 1.6 (1.3, 1.9) | -0.1 (-0.4, 0.2) | 0.462 |
| Deficiency Anemia | 4.5 (4.5, 4.6) | 5.6 (5.1, 6.1) | 1.0 (0.5, 1.5) | <0.001\* |
| Alcohol Abuse | 3.7 (3.6, 3.8) | 6.6 (6.0, 7.2) | 2.9 (2.3, 3.5) | <0.001\* |
| Drug Abuse | 1.6 (1.6, 1.7) | 5.0 (4.6, 5.5) | 3.4 (2.9, 3.9) | <0.001\* |
| Psychoses | 1.4 (1.3, 1.4) | 2.6 (2.2, 3.0) | 1.2 (0.9, 1.6) | <0.001\* |
| Hypertension, Complicated | 23.3 (23.0, 23.6) | 26.7 (25.4, 28.1) | 3.4 (2.1, 4.7) | <0.001\* |

\*p < 0.05; all values represent proportion % (95% confidence interval)