**Appendix I**. Comorbidities of all hospitalized patients with and without major depressive disorder (MDD): 2009-2013 combined, National Inpatient Sample

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| --- | --- | --- | --- | --- |
| Comorbidity | No MDD (%) | MDD (%) | Difference (%) | p value |
| Congestive heart failure | 14.9 (14.7, 15.0) | 8.2 (7.9, 8.6) | -6.6 (-7.0, -6.3) | <0.001\* |
| Cardiac arrhythmias | 20.3 (20.1, 20.5) | 11.5 (11.2, 11.9) | -8.8 (-9.2, -8.4) | <0.001\* |
| Valvular disease | 6.1 (6.0, 6.2) | 3.0 (2.9, 3.1) | -3.1 (-3.3, -3.0) | <0.001\* |
| Pulmonary circulation disorders | 4.0 (4.0, 4.1) | 2.1 (2.0, 2.2) | -1.9 (-2.0, -1.8) | <0.001\* |
| Peripheral vascular disorders | 6.4 (6.3, 6.5) | 4.0 (3.7, 4.2) | -2.4 (-2.7, -2.2) | <0.001\* |
| Hypertension, uncomplicated | 38.4 (38.1, 38.6) | 35.6 (35.2, 36.0) | -2.8 (-3.2, -2.4) | <0.001\* |
| Paralysis | 1.6 (1.6, 1.6) | 1.3 (1.2, 1.3) | -0.3 (-0.4, -0.3) | <0.001\* |
| Other neurological disorders | 7.1 (7.1, 7.2) | 9.5 (9.3, 9.7) | 2.4 (2.2, 2.6) | <0.001\* |
| Chronic pulmonary disease | 22.0 (21.8, 22.2) | 21.1 (20.7, 21.5) | -0.9 (-1.3, -0.5) | <0.001\* |
| Diabetes, uncomplicated | 19.0 (18.9, 19.1) | 14.4 (14.2, 14.7) | -5.0 (-4.8, -4.3) | <0.001\* |
| Diabetes, complicated | 5.1 (5.0, 5.1) | 5.4 (5.1, 5.8) | 0.3 (0.0, 0.6) | 0.022\* |
| Hypothyroidism | 10.8 (10.7, 10.9) | 11.5 (11.3, 11.8) | 0.7 (0.5, 0.9) | <0.001\* |
| Renal failure | 13.1 (12.9, 13.2) | 8.0 (7.6, 8.4) | -5.1 (-5.4, -4.7) | <0.001\* |
| Liver disease | 4.2 (4.1, 4.3) | 4.9 (4.8, 5.1) | 0.7 (0.6, 0.8) | <0.001\* |
| Peptic ulcer disease excluding bleeding | 0.9 (0.9, 0.9) | 0.9 (0.8, 0.9) | 0.0 (0.0, 0.0) | 0.177 |
| AIDS/HIV | 0.4 (0.4, 0.5) | 0.6 (0.6, 0.7) | 0.2 (0.2, 0.2) | <0.001\* |
| Lymphoma | 1.1 (1.1, 1.1) | 0.6 (0.5, 0.6) | -0.5 (-0.6, -0.5) | <0.001\* |
| Metastatic Cancer | 3.3 (3.2, 3.4) | 1.2 (1.1, 1.3) | -2.1 (-2.2, -2.0) | <0.001\* |
| Solid tumor without metastasis | 6.4 (6.3, 6.5) | 2.3, (2.2, 2.4) | -4.1 (-4.3, -4.0) | <0.001\* |
| Rheumatoid Arthritis/Collagen Vascular | 2.9 (2.9, 2.9) | 2.9 (2.8, 2.9) | -0.0 (-0.1, 0.0) | 0.304 |
| Coagulopathy | 4.5 (4.4, 4.5) | 3.0 (2.9, 3.1) | -1.5 (-1.6, -1.4) | <0.001\* |
| Obesity | 10.7 (10.6, 10.9) | 11.3 (11.0, 11.7) | 0.6 (0.3, 0.9) | <0.001\* |
| Weight Loss | 4.8 (4.7, 4.9) | 5.7 (5.5, 6.0) | 1.0 (0.8, 1.2) | <0.001\* |
| Fluid and Electrolyte Disorders | 23.1 (22.9, 23.3) | 18.8 (18.3, 19.4) | -4.3 (-4.7, -3.8) | <0.001\* |
| Blood Loss Anemia | 1.3 (1.2, 1.3) | 0.6 (0.5, 0.6) | -0.7 (-0.7, -0.6) | <0.001\* |
| Deficiency Anemia | 3.0 (2.9, 3.0) | 2.8 (2.7, 2.9) | -0.2 (-0.3, -0.1) | <0.001\* |
| Alcohol Abuse | 4.9 (4.8, 5.0) | 22.0 (21.4, 22.5) | 17.1 (16.5, 17.6) | <0.001\* |
| Drug Abuse | 3.9 (3.7, 4.0) | 22.8 (22.1, 23.4) | 18.9 (18.3), 19.5) | <0.001\* |
| Psychoses | 00.8 (0.8, 0.8) | 2.2 (2.1, 2.3) | 1.4 (1.3, 1.5) | <0.001\* |
| Hypertension, Complicated | 12.2 (12.1, 12.4) | 7.6 (7.2, 8.0) | -4.6 (-5.0, -4.3) | <0.001\* |

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