Supplement Table. Crude and adjusted prevalence ratio of hypertension management outcomes by depression status, after excluding those with heart attack, stroke, cancer and kidney disease, National Health and Nutrition Examination Survey 2007-2018

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| --- | --- | --- | --- | --- | --- |
|  |  | No or minimal (PHQ 9: 0-4) | Mild (PHQ 9: 5-9) | Moderate (PHQ 9: 10-14) | Moderately severe or severe (PHQ 9: ≥15) |
| Prevalence | Model 1 | 1.00 | 1.13 (1.05-1.21)  | 1.25 (1.11-1.41)  | 1.20 (1.03-1.40) |
| Model 2 | 1.00 | 1.17 (1.10-1.25) | 1.31 (1.19-1.45) | 1.24 (1.10-1.40) |
| Model 3 | 1.00 | 1.07 (1.01-1.15) | 1.17 (1.06-1.30) | 1.14 (1.01-1.28) |
| Awareness | Model 1 | 1.00 | 1.05 (0.999-1.10)  | 1.08 (1.01-1.15)  | 1.15 (1.06-1.24) |
| Model 2 | 1.00 | 1.05 (1.002-1.11)  | 1.08 (1.02-1.15) | 1.15 (1.07-1.24) |
| Model 3 | 1.00 | 1.03 (0.98-1.08) | 1.05 (0.98-1.12) | 1.13 (1.06-1.22) |
| Treatment | Model 1 | 1.00 | 1.03 (0.97-1.09)  | 1.11 (1.03-1.20)  | 1.17 (1.07-1.29) |
| Model 2 | 1.00 | 1.04 (0.98-1.10) | 1.11 (1.03-1.20) | 1.18 (1.08-1.29) |
| Model 3 | 1.00 | 1.01 (0.95-1.07) | 1.09 (1.001-1.19) | 1.17 (1.07-1.27) |
| Control among total hypertension | Model 1 | 1.00 | 0.99 (0.89-1.11) | 1.20 (1.06-1.36)  | 1.04 (0.87-1.26) |
| Model 2 | 1.00 | 0.99 (0.89-1.11) | 1.19 (1.05-1.34) | 1.05 (0.87-1.27) |
| Model 3 | 1.00 | 0.96 (0.86-1.07) | 1.15 (1.02-1.30) | 1.01 (0.83-1.23) |
| Control among treated hypertension | Model 1 | 1.00 | 0.97 (0.90-1.04)  | 1.08 (0.99-1.18)  | 0.89 (0.75-1.05) |
| Model 2 | 1.00 | 0.95 (0.88-1.03) | 1.06 (0.97-1.16) | 0.85 (0.71-1.02) |
| Model 3 | 1.00 | 0.95 (0.88-1.03) | 1.06 (0.97-1.16) | 0.84 (0.70-1.00) |

All estimates are weighted to the US adult population.

All analyses were conducted using multiple logistic regression.

PHQ-9: the Patient Health Questionnaire.

Prevalence of hypertension was defined as a systolic blood pressure ≥ 140 mm Hg, or a diastolic blood pressure ≥ 90 mm Hg, or current use of blood pressure lowering medications, or awareness of hypertension among the total population;

Awareness of hypertension was defined as an affirmative response to the question “Have you ever been told by a doctor or health professional that you had hypertension, also called high blood pressure?” among those with hypertension;

Treatment of hypertension was defined as affirmative responses to both questions “Because of your high blood pressure/hypertension, have you ever been told to take prescribed medicine?” and “Are you now taking prescribed medicine for high blood pressure?” among those with hypertension;

Controlled among total hypertension was defined as an SBP < 140 mm Hg and DBP < 90 mm Hg among the total hypertension;

Controlled among treated hypertension was defined as an SBP < 140 mm Hg and DBP < 90 mm Hg among hypertension who were taking antihypertensive medications.

Model 1: Crude;

Model 2: Adjusted by demographic characteristics including age, sex, race/ethnicity, level of education and insurance status;

Model 3: Adjusted by demographic characteristics including age, sex, race/ethnicity, level of education, insurance status, high cholesterol, diabetes, smoking, alcohol use, BMI (obesity, yes/no) and physical activities (engaged with recommended physical activities, yes/no).