

## Supplemental Appendix

**Table 1. Occurrence of Major Adverse Coronary Events by Most Common Antidepressant (unadjusted).**

|                                    | Citalopram<br>n=132  | Trazodone<br>n=106 | Sertraline<br>n=101 | Bupropion<br>n=72 | Venlafaxine<br>n=54 | Amitriptyline<br>n=50 |
|------------------------------------|----------------------|--------------------|---------------------|-------------------|---------------------|-----------------------|
| Angina                             | 30<br>(22.7%)**<br>* | 20<br>(18.9%)*     | 10 (9.9%)           | 8 (11.1%)         | 9 (20.9%)           | 7 (14.0%)             |
| Myocardial Infarction              | 18<br>(13.6%)**      | 9 (8.5%)           | 7 (6.9%)            | 7 (9.7%)          | 5 (11.6%)           | 7 (14.0%)             |
| Heart Failure                      | 12. (9.1%)           | 5 (4.7%)           | 10 (9.9%)           | 4 (5.6%)          | 5 (11.6%)           | 5 (10.0%)             |
| Coronary Artery Bypass Graft       | 8 (6.1%)             | 4 (3.8%)           | 7 (6.9%)            | 2 (2.8%)          | 1 (2.3%)            | 3 (6.0%)              |
| Percutaneous Coronary Intervention | 29<br>(22.0%)**      | 25<br>(23.6%)**    | 18 (17.8%)          | 15 (20.8%)        | 11 (25.6%)*         | 14<br>(28.0%)**       |
| Ventricular Arrhythmia             | 3 (2.3%)             | 3 (2.8%)*          | 3 (3.0%)*           | 1 (1.4%)          | 0 (0.0%)            | 2 (4.0%)*             |
| Death                              | 11 (8.3%)            | 8 (7.5%)           | 8 (7.9%)            | 8 (11.1%)         | 4 (9.3%)            | 11<br>(22.0%)**       |
| <b>Any MACE</b>                    | 60<br>(45.5%)**<br>* | 40 (37.7%)         | 31 (30.7%)          | 30<br>(41.7%)*    | 7 (39.5%)           | 26<br>(52.0%)**       |

MACE=major adverse coronary event.

Chi-square tests \*p<·05; \*\*p<·01; \*\*\*p<·001 for occurrence of MACE in those taking versus not taking the antidepressant

**Table 2: Patient Characteristics After Propensity Score Matching for SSRI, N=585**

|                      | No SSRI   | SSRI      | SD    |
|----------------------|-----------|-----------|-------|
| History Smoking      | 111(37%)  | 104(35%)  | 0·48  |
| History Stroke       | 75(25%)   | 75(25%)   | 0·43  |
| History COPD         | 69(23%)   | 69(23%)   | 0·42  |
| History CABG         | 72(24%)   | 72(24%)   | 0·43  |
| History CHF          | 30(10%)   | 27(9%)    | 0·28  |
| History Diabetes     | 129(44%)  | 131(43%)  | 0·50  |
| History PVD          | 78(26%)   | 80(27%)   | 0·44  |
| History Cancer       | 48(16%)   | 48(16%)   | 0·37  |
| History HTN          | 200(67%)  | 203(68%)  | 0·47  |
| History Dyslipidemia | 284(95%)  | 283(95%)  | 0·22  |
| History CKD          | 15(5%)    | 21(7%)    | 0·26  |
| History PCI          | 155(52%)  | 158(53%)  | 0·50  |
| Female gender        | 123 (41%) | 125 (42%) | 0·49  |
| Age                  | 59·27     | 59·45     | 12·32 |
| BMI                  | 31·37     | 31·23     | 6·77  |
| PHQ9 Baseline        | 6·91      | 7·02      | 6·06  |

BMI= body mass index; CABG= coronary artery bypass grafting; CKD= chronic kidney disease; CHF= congestive heart failure; COPD= chronic obstructive pulmonary disease; HTN= hypertension; PCI= percutaneous coronary intervention; PHQ= patient health questionnaire; PVD= peripheral vascular disease; SD= standardized differences; SSRI= selective serotonin reuptake inhibitor.

Table 3: Patient Characteristics After Propensity Score Matching for SNRI, N=217

|                      | No SNRI | SNRI    | SD    |
|----------------------|---------|---------|-------|
| History Smoking      | 28(26%) | 31(28%) | 0·46  |
| History Stroke       | 25(23%) | 25(23%) | 0·43  |
| History COPD         | 35(32%) | 41(38%) | 0·49  |
| History CABG         | 19(18%) | 20(18%) | 0·39  |
| History CHF          | 14(12%) | 11(11%) | 0·31  |
| History Diabetes     | 59(55%) | 64(59%) | 0·50  |
| History PVD          | 40(37%) | 39(36%) | 0·49  |
| History Cancer       | 14(13%) | 20(18%) | 0·39  |
| History HTN          | 79(73%) | 81(74%) | 0·44  |
| History Dyslipidemia | 97(90%) | 98(90%) | 0·31  |
| History CKD          | 1(1%)   | 3(3%)   | 0·16  |
| History PCI          | 54(50%) | 59(54%) | 0·51  |
| Female gender        | 79(73%) | 70(64%) | 0·49  |
| Age                  | 60·51   | 61·79   | 12·26 |
| BMI                  | 32·38   | 32·13   | 7·71  |
| PHQ9 Baseline        | 9·38    | 9·28    | 7·08  |

BMI= body mass index; CABG= coronary artery bypass grafting; CKD= chronic kidney disease; CHF= congestive heart failure; COPD= chronic obstructive pulmonary disease; HTN= hypertension; PCI= percutaneous coronary intervention; PHQ= patient health questionnaire; PVD= peripheral vascular disease; SD= standardized differences; SSRI= selective serotonin reuptake inhibitor.

Table 4: Patient Characteristics After Propensity Score Matching for TCA, N=238

|                      | No TCA   | TCA      | SD    |
|----------------------|----------|----------|-------|
| History Smoking      | 50(42%)  | 44(37%)  | 0·49  |
| History Stroke       | 44(37%)  | 42(35%)  | 0·48  |
| History COPD         | 24(20%)  | 29(24%)  | 0·43  |
| History CABG         | 26(22%)  | 24(20%)  | 0·40  |
| History CHF          | 21(18%)  | 13(11%)  | 0·31  |
| History Diabetes     | 58(49%)  | 49(41%)  | 0·50  |
| History PVD          | 40(34%)  | 36(30%)  | 0·47  |
| History Cancer       | 33(28%)  | 29(24%)  | 0·43  |
| History HTN          | 68(57%)  | 70(59%)  | 0·50  |
| History Dyslipidemia | 102(86%) | 101(85%) | 0·36  |
| History CKD          | 1(1%)    | 2(2%)    | 0·15  |
| History PCI          | 69(58%)  | 68(57%)  | 0·50  |
| Female gender        | 69(58%)  | 64(54%)  | 0·50  |
| Age                  | 63·11    | 63·54    | 11·16 |
| BMI                  | 29·48    | 29·95    | 5·93  |
| PHQ9 Baseline        | 4·13     | 5·59     | 4·69  |

BMI= body mass index; CABG= coronary artery bypass grafting; CKD= chronic kidney disease; CHF= congestive heart failure; COPD= chronic obstructive pulmonary disease; HTN= hypertension; PCI= percutaneous coronary intervention; PHQ= patient health questionnaire baseline; PVD= peripheral vascular disease; SD= standardized differences, TCA= tricyclic antidepressant.

Table 5: Patient Characteristics After Propensity Score Matching for Atypical, N=303

|                      | No Atypical | Atypical | SD    |
|----------------------|-------------|----------|-------|
| History Smoking      | 53(35%)     | 56(40%)  | 0·49  |
| History Stroke       | 33(22%)     | 53(23%)  | 0·42  |
| History COPD         | 36(24%)     | 36(24%)  | 0·43  |
| History CABG         | 38(25%)     | 38(25%)  | 0·43  |
| History CHF          | 17(11%)     | 17(12%)  | 0·33  |
| History Diabetes     | 62(41%)     | 62(42%)  | 0·50  |
| History PVD          | 26(17%)     | (20%)    | 0·40  |
| History Cancer       | 18(12%)     | 24(16%)  | 0·37  |
| History HTN          | 106(70%)    | 89(65%)  | 0·48  |
| History Dyslipidemia | 138(91%)    | 128(90%) | 0·30  |
| History CKD          | 7(5%)       | 6(4%)    | 0·20  |
| History PCI          | 90(59%)     | 86(61%)  | 0·49  |
| Gender               | 53(35%)     | 82(34%)  | 0·47  |
| Age                  | 59·67       | 59·59    | 13·13 |
| BMI                  | 30·27       | 30·23    | 5·90  |
| PHQ9 Baseline        | 7·76        | 7·84     | 6·37  |

BMI= body mass index; CABG= coronary artery bypass grafting; CKD= chronic kidney disease; CHF= congestive heart failure; COPD= chronic obstructive pulmonary disease; HTN= hypertension; PCI= percutaneous coronary intervention; PHQ= patient health questionnaire baseline; PVD= peripheral vascular disease; SD= standard deviation.