

Type of file: figure

Label: eFigure 1

Filename: eFigure1.emf

COPES parent sample
(n = 457)

Excluded (n = 25)
No baseline DISH diagnosis (n = 4)
Tricyclic antidepressant only (n = 8)
Major adverse coronary event/mortality (n=2)
Monoamine-oxidase inhibitor only (n=1)
SSRI^a + tricyclic antidepressant (n=4)
Major adverse coronary event/mortality (n=4)
SSRI^a + other second-generation antidepressant (n=8)
Major adverse coronary event/mortality (n=8)

Analysis sample
(n = 432)

Not on antidepressant at baseline
(n = 354)

Only selective serotonin reuptake inhibitor^a at baseline (n = 58)

Sertraline (n = 24)
Paroxetine (n = 13)
Fluoxetine (n = 11)
Escitalopram (n = 5)
Citalopram (n = 3)
Citalopram + Escitalopram (n = 1)
Paroxetine + Fluoxetine (n = 1)

Only other second-generation antidepressant at baseline (n = 20)

Bupropion (n = 9)
Trazodone (n = 4)
Venlafaxine (n = 3)
Mirtazapine (n = 1)
Nefazodone + Bupropion (n = 1)
Trazodone + Bupropion (n = 1)
Venlafaxine + Bupropion (n = 1)

Major adverse coronary event (n = 76)
Major adverse coronary event^b (n=52)
Mortality^b (n = 31)

Major adverse coronary event (n = 21)
Major adverse coronary event^b (n=14)
Mortality^b (n = 9)

Major adverse coronary event (n = 4)
Major adverse coronary event^b (n=3)
Mortality^b (n = 1)

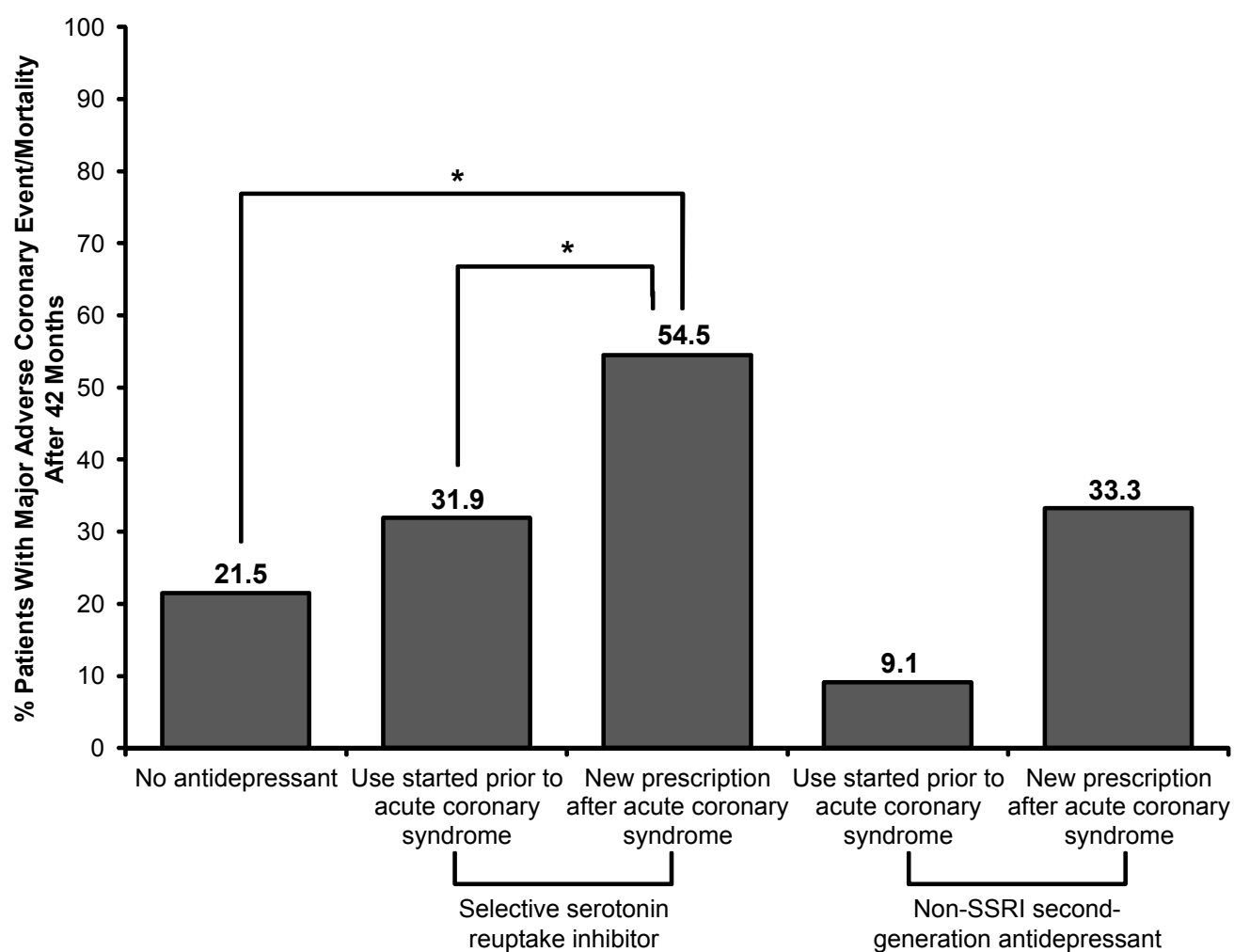
Antidepressant Use

42 mo. Major Adverse Coronary Event/Mortality

Type of file: figure

Label: eFigure 2

Filename: eFigure2.emf



Type of file: table

Label: eTable 1

Filename: eTable 1.docx

eTable 1. Sample Characteristics According to Antidepressant Medication Status^a

	No Antidepressant (n = 354)	Only Selective Serotonin Reuptake Inhibitor (n = 58)	Only non-SSRI Second- Generation Antidepressant (n = 20)	P Value
Women, No. (%)	125 (38.1)	30 (51.7)	12 (60.0)	.03
Age, y	61.4 (12.4)	59.2 (13)	57.6 (15.1)	.21
White, No. (%)	275 (77.7)	52 (89.7)	17 (85.0)	.09
Hispanic, No. (%)	34 (9.6)	6 (10.3)	2 (10.0)	.98
Admission diagnosis				
Unstable Angina	151 (42.7)	35 (60.3)	10 (50.0)	.08
Non-ST segment elevation myocardial infarction	120 (33.9)	15 (25.9)	8 (40.0)	
ST segment elevation myocardial infarction	83 (23.4)	8 (13.8)	2 (10.0)	
Left ventricular ejection fraction <40%	59 (16.7)	5 (8.6)	3 (15.0)	.29
Charlson comorbidity index	1.2 (1.5)	1.7 (1.6)	1.7 (1.4)	.05
Global Registry of Acute Coronary Events risk score	90.6 (29.9)	91.4 (36.8)	89.4 (38.5)	.97
Beck Depression Inventory score at baseline	7.55 (8.26)	12.57 (8.21)	11.60 (11.20)	<.001 ^b
Beck Depression Inventory score ≥16 at baseline, No. (%)	37 (10.5)	13 (22.4)	3 (15.0)	.03
Major Depressive Disorder at baseline, No. (%)	24 (6.8)	12 (20.7)	6 (30)	<.001 ^b
History of Major Depressive Disorder, No. (%)	73 (21.4)	36 (64.3)	7 (38.9)	<.001 ^b
Major Depressive Disorder at 3 months, No. (%)	20 (6.3)	10 (18.2)	3 (16.7)	.006
Psychotherapy or counseling at 1 month	9 (2.8)	8 (14.5%)	2 (10.5%)	<.001 ^b

^aValues are mean (SD) unless otherwise indicated.

^bSignificant difference between groups after Bonferroni correction ($\alpha \leq .003$).

Type of file: table

Label: eTable 2

Filename: eTable 2.docx

eTable 2. Hazard of 42-month Major Adverse Coronary Event/Mortality among Selective Serotonin Reuptake Inhibitor Users and non-SSRI Second-Generation Antidepressant Users Compared to No Antidepressant Users (N=432)

Predictors	Hazard Ratio (95% CI)	P Value
Model 1 Covariate-Adjusted		
Age	1.21 (0.88-1.66)	.26
Female	0.74 (0.48-1.13)	.16
Non-white	1.37 (0.83-2.24)	.22
Left ventricular ejection fraction < 40	1.74 (1.04-2.90)	.04
Charlson comorbidity index	1.41 (1.17-1.70)	< .001
Global Registry of Acute Coronary Events risk score	0.97 (0.67-1.40)	.81
Index Admission ACS Diagnosis		
Unstable angina	1.00 [Reference]	
Non-ST segment elevation myocardial infarction	1.42 (0.90-2.25)	.14
ST segment elevation myocardial infarction	0.87 (0.49-1.55)	.64
Type of Antidepressant Use		
No antidepressant	1.00 [Reference]	
Only selective serotonin reuptake inhibitor	2.12 (1.27-3.52)	.04
Only non-SSRI second-generation antidepressant	0.97 (0.35-2.68)	.95
Model 2: Covariate^a and Beck Depression Inventory-Adjusted		
No Antidepressant	1.00 [Reference]	
Only selective serotonin reuptake inhibitor	1.83 (1.09-3.06)	.02
Only non-SSRI second-generation antidepressant	0.86 (0.31-2.42)	.78
Beck Depression Inventory Score	1.34 (1.09-1.64)	.003
Model 3: Covariate^a and Major Depressive Episode-Adjusted		
No antidepressant	[Reference]	
Only selective serotonin reuptake inhibitor	1.95 (1.16-3.28)	.01
Only non-SSRI second-generation antidepressant	0.85 (0.30-2.40)	.76
Major Depressive Episode	1.68 (0.93-3.05)	.09

^a Adjusted for age, sex, race, Charlson comorbidity index score, Global Registry of Acute Coronary Events risk score, left ventricular ejection fraction, and index admission acute coronary syndrome diagnosis

Type of file: table

Label: eTable 3

Filename: eTable 3.docx

eTable 3. Hazard of 42-month Major Adverse Coronary Event/Mortality associated with Prior versus New Onset Selective Serotonin Reuptake Inhibitor - and Non-SSRI Second-Generation Antidepressant Use Compared with no Antidepressant Use^a

Predictors	Hazard Ratio (95% CI)	P
Model 1: All antidepressants versus no antidepressant use		
No antidepressant	1.00 [Reference]	
Antidepressant prior to acute coronary syndrome	1.16 (0.66-2.06)	.61
New onset antidepressant-use after acute coronary syndrome	3.51 (1.67-7.27)	.001
Beck Depression Inventory score	1.37 (1.14-1.65)	.001
Model 2: Selective serotonin reuptake inhibitor versus no antidepressant use		
No antidepressant	1.00 [Reference]	
Selective serotonin reuptake inhibitor prior to acute coronary syndrome	1.48 (0.82-2.66)	.19
New onset selective serotonin reuptake inhibitor-use after acute coronary syndrome	4.79 (1.93-11.89)	.001
Beck Depression Inventory score	1.33 (1.09-1.63)	.005
Model 3: Non-SSRI second-generation antidepressant versus no antidepressant use		
No antidepressant	1.00 [Reference]	
Non-SSRI second-generation antidepressant use prior to acute coronary syndrome	0.27 (0.04-2.0)	.20
New onset non-SSRI second-generation antidepressant-use after acute coronary syndrome	2.31 (0.71-7.55)	.16
Beck Depression Inventory score	1.36 (1.11-1.67)	.004

^a Adjusted for age, sex, race, Charlson comorbidity index score, Global Registry of Acute Coronary Events risk score, left ventricular ejection fraction, and baseline acute coronary syndrome diagnosis