

SUPPLEMENTAL MATERIAL

Supplemental Table 1. Candidate Variables for the Prediction Models

Category	Variables Considered for Prediction Model	
Demographics	Age Sex	Race
Socioeconomic Status	9-Item PHQ Depression Score $\geq 10^{23}$ Insurance for Medical Care	4-Item Perceived Stress Score $\geq 9^{24, 25}$ Avoided Care Due to Costs
Lifestyle	Activity Level During Leisure Time Currently Working	Current Smoker
Comorbidities	Prior Myocardial Infarction Prior Percutaneous Coronary Intervention Prior Bypass Graft Surgery Prior Stroke or Transient Ischemic Attack Chronic Heart Failure	Peripheral Artery Disease Chronic Lung Disease History of Atrial Fibrillation Body Mass Index
Baseline Health Status	SAQ Angina Frequency Score	SAQ Quality of Life Score
Diabetes Control	Taking Insulin Prior to Admission Admission Glucose	Hemoglobin A1c
Acute Presentation and Treatment	ST-Elevations on Arrival Admission Hemoglobin In-Hospital Revascularization	Admission Creatinine Peak Troponin Left Ventricular Systolic Function

Abbreviations: PHQ, Patient Health Questionnaire; SAQ, Seattle Angina Questionnaire

Supplemental Table 2. Baseline Characteristics of Patients with vs. without 1-Year Angina Data

	Missing n=494	Not Missing n=976	P-Value
Age (years)	57.6 ± 11.7	60.7 ± 11.1	< 0.001
Male	58.5%	61.9%	0.209
White race	48.7%	62.8%	< 0.001
Married	44.8%	51.8%	0.011
Lives alone	26.1%	25.0%	0.647
Insurance	71.7%	79.2%	0.001
High school education	72.3%	78.1%	0.014
Avoids care due to cost	31.6%	26.5%	0.041
Currently working	42.2%	39.6%	0.342
Active during leisure time	18.5%	20.6%	0.339
Current smoker	38.2%	30.3%	0.002
Body mass index (kg/m ²)	31.4 ± 6.9	31.6 ± 7.1	0.587
Dyslipidemia	56.9%	59.0%	0.433
Hypertension	83.2%	78.1%	0.020
Prior myocardial infarction	24.3%	24.8%	0.832
Prior coronary angioplasty	23.9%	23.9%	0.995
Prior coronary bypass surgery	11.1%	17.8%	< 0.001
Peripheral vascular disease	5.1%	6.9%	0.177
Prior stroke	5.5%	6.3%	0.549
Chronic heart failure	14.2%	11.7%	0.173
Atrial fibrillation/flutter	3.0%	6.4%	0.007
Chronic lung disease	7.1%	8.0%	0.537
Depression	22.6%	20.8%	0.449
High emotional stress	17.9%	14.8%	0.131
ST-elevation myocardial infarction	33.4%	36.1%	0.312
Peak troponin (ng/dL)	22.5 ± 66.5	24.0 ± 81.7	0.724
Creatinine (mg/dL)	1.4 ± 1.5	1.3 ± 1.0	0.203
Hemoglobin (mg/dL)	13.7 ± 2.1	13.7 ± 2.1	0.890
Multivessel disease	55.3%	59.6%	0.130
Left ventricular systolic dysfunction	23.5%	19.1%	0.051
GRACE risk score	101.6 ± 29.3	105.5 ± 28.4	0.051
Systolic blood pressure (mmHg)	147.1 ± 30.6	146.5 ± 30.7	0.717
Diastolic blood pressure (mmHg)	84.8 ± 19.5	83.2 ± 19.2	0.116
Taking insulin prior to admission	26.7%	24.6%	0.374
Hemoglobin A1c (%)	8.0 ± 2.0	8.0 ± 2.1	0.851
Fasting glucose (mg/dL)	170.4 ± 63.5	174.7 ± 80.1	0.312
Total cholesterol (mg/dL)	184.1 ± 58.6	173.9 ± 59.4	0.002
Triglycerides (mg/dL)	193.8 ± 259.3	178.9 ± 241.9	0.294
High density lipoprotein (mg/dL)	40.4 ± 12.8	40.0 ± 12.8	0.548
Low density lipoprotein (mg/dL)	108.4 ± 46.3	99.6 ± 42.6	< 0.001

SAQ Angina Frequency score	82.2 ± 23.8	84.5 ± 21.7	0.060
SAQ Quality of Life score	60.1 ± 25.3	63.1 ± 23.6	0.025
In-hospital coronary angioplasty	54.5%	60.6%	0.024
In-hospital coronary bypass surgery	9.5%	11.4%	0.277

GFR, glomerular filtration rate; GRACE, Global Registry of Acute Coronary Events; SAQ, Seattle Angina Questionnaire

Supplemental Table 3. 5-Year Mortality Risk Score

Characteristic	Points
Age (years)	
<50	0
50-59	4
60-69	9
70-79	13
≥80	17
Not currently working	12
Not active during leisure time	11
BMI (kg/m ²)	
<25	8
25-<30	6
30-<35	4
35-<40	3
≥40	0
Prior MI	6
Chronic heart failure	7
Chronic lung disease	10
Admission creatinine (mg/dL)	
<0.8	0
0.8 to <1.0	3
1.0 to <1.5	5
1.5 to <2.0	9
≥2.0	14
Admission hemoglobin (mg/dL)	
<11	12
11 to <13	9
13 to <15	6
15 to <17	3
≥17	0
Left ventricular systolic dysfunction	8
Fasting glucose (mg/dL)	
<110	0
110 to <150	1
150 to <190	2
190 to <250	4
≥250	6
Currently on insulin	6
Not revascularized during AMI	6

Scores range from 0-123; scores 0-41 indicating low risk (predicted risk 3-12%), scores 42-59 indicating intermediate risk (predicted risk 12-30%), and scores 60-123 indicating high risk (predicted risk 30-90%)

Supplemental Table 4. 1-Year Angina Risk Score

Characteristic	Points
Age (years)	
<50	4
50-59	3
60-69	2
70-79	1
≥80	0
Female	2
Non-Caucasian race	2
Not currently working	1
Current smoker	1
Prior CABG	2
Chronic heart failure	2
SAQ Angina Frequency score	
0-30 (daily angina)	7
>30-60 (weekly angina)	4
>60-90 (monthly angina)	2
100 (no angina)	0

Scores range from 0-21; scores 0-5 indicating low risk (predicted risk 10-22%), scores 6-8 indicating intermediate risk (predicted risk 20-35%), and scores 9-21 indicating high risk (predicted risk 31-70%)