

Supplemental Table 1 International Classification of Disease, 10th edition, Clinical Modification (ICD-10-CM) codes used for comorbidities and complications

Comorbidities/complications	ICD-10 Code
TCM	I5181
FHxCAD	Z8249
Comorbidities	
Smoking	F17-F17299, Z720, Z87891
Hypertension	I10, I15-I159
Diabetes mellitus	E10-E109, E11-E119, E13-E139
Hyperlipidemia	E780-E785
Obesity	Z683-Z6839, Z684-Z6845, E66-E669
Anxiety	F064, F40-F409, F41-F419
Mood disorders	F30-F39
Obstructive sleep apnea	G473-G4739
Chronic kidney disease	N18-N189
COPD	J41-J418, J42, J43-J439, J44-J449
Peripheral artery disease	I70, I71, I72, I73, I74, I77
Anemia	D50-D59, D60-D64
History of MI	I252
Complications	

Cardiac arrest	I46-I469
Cardiogenic shock	R570
Ventricular arrhythmia	I472, I490-I4902
Acute kidney injury	N17-N179
Acute respiratory failure	J960-J9622

COPD = chronic obstructive pulmonary disease; FHxCAD = family history of coronary artery

disease; MI = myocardial infarction; TCM = Takotsubo cardiomyopathy.

Supplemental Table 2 Baseline characteristics

Variables	Unmatched cohort				Propensity-matched cohort			
	TCM		without		TCM		with	
	FHxCAD	P value	FHxCAD	P value	FHxCAD	P value	FHxCAD	P value
n	4085		648		646		646	
Age, [mean years (sd)]	67.06 (12.82)		63.89 (12.18)	<0.001	63.77 (13.19)		63.94 (12.15)	0.804
Sex, n (%)				0.292				0.492
Men	409 (10.0)		53 (8.2)		61 (9.4)		53 (8.2)	
Women	3674 (89.9)		595 (91.8)		585 (90.6)		593 (91.8)	
Unknown	<11		0 (0.0)		0 (0.0)		0 (0.0)	
Race, n (%)				0.607				0.801
White	3236 (79.2)		530 (81.8)		537 (83.1)		528 (81.7)	
Black	285 (7.0)		36 (5.6)		33 (5.1)		36 (5.6)	

Hispanic	235 (5.8)	36 (5.6)	39 (6.0)	36 (5.6)
Asian/	62 (1.5)	<11	<11	<11
Pacific Islander				
Native American	21 (0.5)	<11	<11	<11
Other	94 (2.3)	<11	<11	<11
Unknown	152 (3.7)	26 (4.0)	24 (3.7)	26 (4.0)
Patient location, n (%)		0.102		0.8
"Central" counties of metro	954 (23.4)	127 (19.6)	126 (19.5)	127 (19.7)
areas of >=1 million population				
"Fringe" counties of metro areas	1020 (25.0)	157 (24.2)	158 (24.5)	157 (24.3)
of >=1 million population				
Counties in metro areas of	986 (24.1)	160 (24.7)	173 (26.8)	160 (24.8)
250,000-999,999 population				

Counties in metro areas of 50,000-249,999 population	412 (10.1)	81 (12.5)	82 (12.7)	80 (12.4)
Micropolitan counties	414 (10.1)	70 (10.8)	55 (8.5)	70 (10.8)
Non metropolitan or micropolitan counties	284 (7.0)	53 (8.2)	52 (8.0)	52 (8.0)
NA	15 (0.4)	0 (0.0)	0 (0.0)	0 (0.0)
Mean household income, n (%)		0.679		0.831
\$1-\$42,999	960 (23.5)	163 (25.2)	161 (24.9)	161 (24.9)
\$43,000-\$53,999	1060 (25.9)	152 (23.5)	141 (21.8)	152 (23.5)
\$54,000-\$70,999	1108 (27.1)	175 (27.0)	179 (27.7)	175 (27.1)
\$71,000 or more	903 (22.1)	150 (23.1)	160 (24.8)	150 (23.2)
Unknown	54 (1.3)	<11	<11	<11
Primary payer, n (%)		<0.001		0.945

Medicare	2499 (61.2)	328 (50.6)	332 (51.4)	328 (50.8)
Medicaid	354 (8.7)	67 (10.3)	65 (10.1)	67 (10.4)
Private including HMO	1021 (25.0)	214 (33.0)	215 (33.3)	214 (33.1)
Self-pay	127 (3.1)	29 (4.5)	22 (3.4)	27 (4.2)
No charge	<11	0 (0.0)	0 (0.0)	0 (0.0)
Other	71 (1.7)	<11	12 (1.9)	<11
Unknown	<11	0 (0.0)	0 (0.0)	0 (0.0)
Hospital type, n (%)		0.531		0.27
Rural	207 (5.1)	38 (5.9)	32 (5.0)	38 (5.9)
Urban non-teaching	898 (22.0)	133 (20.5)	114 (17.6)	133 (20.6)
Urban teaching	2980 (72.9)	477 (73.6)	500 (77.4)	475 (73.5)
Hospital region, n (%)		0.116		0.83
Northeast	783 (19.2)	144 (22.2)	157 (24.3)	143 (22.1)

Midwest	1083 (26.5)	147 (22.7)		145 (22.4)	147 (22.8)	
South	1279 (31.3)	204 (31.5)		195 (30.2)	203 (31.4)	
West	940 (23.0)	153 (23.6)		149 (23.1)	153 (23.7)	
Hospital bed size, n (%)			0.094			0.667
Small	632 (15.5)	80 (12.3)		89 (13.8)	80 (12.4)	
Medium	1137 (27.8)	195 (30.1)		199 (30.8)	194 (30.0)	
Large	2316 (56.7)	373 (57.6)		358 (55.4)	372 (57.6)	
Comorbidities, n (%)						
Smoking	1762 (43.1)	314 (48.5)	0.013	322 (49.8)	312 (48.3)	0.616
Hypertension	1795 (43.9)	306 (47.2)	0.129	311 (48.1)	305 (47.2)	0.781
Diabetes mellitus	827 (20.2)	124 (19.1)	0.547	132 (20.4)	124 (19.2)	0.625
Hyperlipidemia	1969 (48.2)	352 (54.3)	0.004	340 (52.6)	350 (54.2)	0.616
Obesity	511 (12.5)	98 (15.1)	0.075	81 (12.5)	98 (15.2)	0.198

Anxiety	1047 (25.6)	190 (29.3)	0.053	207 (32.0)	189 (29.3)	0.305
Mood disorders	822 (20.1)	131 (20.2)	0.998	136 (21.1)	131 (20.3)	0.783
Obstructive sleep apnea	229 (5.6)	41 (6.3)	0.519	33 (5.1)	41 (6.3)	0.402
Chronic kidney disease	406 (9.9)	43 (6.6)	0.009	44 (6.8)	43 (6.7)	1
COPD	918 (22.5)	112 (17.3)	0.003	124 (19.2)	111 (17.2)	0.387
Peripheral arterial disease	290 (7.1)	30 (4.6)	0.025	24 (3.7)	30 (4.6)	0.487
Anemia	544 (13.3)	59 (9.1)	0.003	67 (10.4)	59 (9.1)	0.512
History of MI	343 (8.4)	46 (7.1)	0.298	38 (5.9)	46 (7.1)	0.43

COPD, chronic obstructive pulmonary disease; MI, myocardial infarction; TCM, Takotsubo cardiomyopathy.

Count less than 11 were not reported as per HCUP guidelines.