

SUPPLEMENTAL MATERIAL

Supplemental Table 1: Taxonomy classification

Appendix: Sample of VIRGO cases by class

Supplemental Table 1. Taxonomy classification.

	Class						
	I	IIa	IIb	IIIa	IIIb	IV	V
Total n (%)	2425 (86.5%)	35 (1.2%)	55 (2.0%)	88 (3.1%)	150 (5.4%)	31 (1.1%)	18 (0.6%)
Sociodemographic characteristics							
Females	1564 (82.5%)	27 (1.4%)	45 (2.4%)	81 (4.3%)	133 (7.0%)	29 (1.5%)	16 (0.8%)
Males	861 (94.9%)	8 (0.9%)	10 (1.1%)	7 (0.8%)	17 (1.9%)	2 (0.2%)	2 (0.2%)
Age (mean; SD)	47.3 (6.0)	47.8 (5.3)	47.3 (6.7)	46.7 (6.1)	45.0 (7.6)	43.4 (7.7)	47.6 (6.0)
Race							
White/Caucasian	1863 (77.0%)	21 (60.0%)	45 (81.8%)	61 (69.3%)	97 (64.7%)	22 (71.0%)	10 (55.6%)
Black/African American	417 (17.2%)	12 (34.3%)	9 (16.4%)	23 (26.1%)	37 (24.7%)	7 (22.6%)	4 (22.2%)
Other	141 (5.8%)	2 (5.7%)	1 (1.8%)	4 (4.5%)	16 (10.7%)	2 (6.5%)	4 (22.2%)
Ethnicity							
Hispanic	175 (7.2%)	2 (5.7%)	7 (13.0%)	7 (8.1%)	18 (12.1%)	2 (6.5%)	2 (11.1%)
Marital status							
Married/Co-habiting	1366 (56.4%)	16 (45.7%)	21 (38.2%)	47 (53.4%)	86 (57.7%)	18 (58.1%)	9 (50.0%)
Divorced/Separated	632 (26.1%)	13 (37.1%)	25 (45.5%)	22 (25.0%)	32 (21.5%)	5 (16.1%)	4 (22.2%)
Widowed	75 (3.1%)	1 (2.9%)	1 (1.8%)	4 (4.5%)	3 (2.0%)	1 (3.2%)	0 (0.0%)
Single	331 (13.7%)	5 (14.3%)	7 (12.7%)	14 (15.9%)	28 (18.8%)	7 (22.6%)	5 (27.8%)
Other	17 (0.7%)	0 (0.0%)	1 (1.8%)	1 (1.1%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
Monthly financial situation							
Some money left over	715 (29.5%)	8 (22.9%)	15 (27.3%)	26 (29.5%)	40 (26.7%)	11 (35.5%)	4 (22.2%)
Just enough to make ends meet	855 (35.3%)	9 (25.7%)	25 (45.5%)	33 (37.5%)	62 (41.3%)	10 (32.3%)	7 (38.9%)

Not enough to make ends meet	828 (34.2%)	18 (51.4%)	14 (25.5%)	28 (31.8%)	45 (30.0%)	9 (29.0%)	7 (38.9%)
Patient refused	25 (1.0%)	0 (0.0%)	1 (1.8%)	1 (1.1%)	3 (2.0%)	1 (3.2%)	0 (0.0%)
Symptom presentation							
Typical chest pain	1886 (77.8%)	22 (62.9%)	40 (72.7%)	56 (63.6%)	116 (77.3%)	25 (80.6%)	11 (61.1%)
Atypical chest pain	495 (20.4%)	10 (28.6%)	14 (25.5%)	18 (20.5%)	27 (18.0%)	5 (16.1%)	6 (33.3%)
Back pain	351 (14.5%)	3 (8.6%)	8 (14.5%)	16 (18.2%)	20 (13.3%)	6 (19.4%)	5 (27.8%)
Abdominal pain	119 (4.9%)	3 (8.6%)	1 (1.8%)	4 (4.5%)	7 (4.7%)	2 (6.5%)	1 (5.6%)
Nausea	1084 (44.7%)	11 (31.4%)	24 (43.6%)	24 (27.3%)	64 (42.7%)	12 (38.7%)	7 (38.9%)
Other type/location of pain	551 (22.7%)	8 (22.9%)	13 (23.6%)	19 (21.6%)	41 (27.3%)	9 (29.0%)	7 (38.9%)
Shortness of breath	1216 (50.1%)	23 (65.7%)	25 (45.5%)	38 (43.2%)	61 (40.7%)	13 (41.9%)	5 (27.8%)
Fatigue	270 (11.1%)	8 (22.9%)	5 (9.1%)	10 (11.4%)	21 (14.0%)	4 (12.9%)	0 (0.0%)
Other symptoms	1679 (69.2%)	29 (82.9%)	35 (63.6%)	68 (77.3%)	108 (72.0%)	23 (74.2%)	12 (66.7%)
Trigger							
Cocaine use	28 (1.2%)	1 (2.9%)	2 (3.6%)	2 (2.3%)	2 (1.3%)	0 (0.0%)	0 (0.0%)
Other illicit drugs	39 (1.6%)	1 (2.9%)	1 (1.8%)	3 (3.4%)	6 (4.0%)	1 (3.2%)	2 (11.1%)
Discontinuation of previous antiplatelet therapy	55 (2.3%)	1 (2.9%)	1 (1.8%)	1 (1.1%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
Sexual relations	11 (0.5%)	0 (0.0%)	0 (0.0%)	1 (1.1%)	1 (0.7%)	1 (3.2%)	0 (0.0%)
Physical stress	242 (10.0%)	2 (5.7%)	3 (5.5%)	10 (11.4%)	21 (14.0%)	4 (12.9%)	1 (5.6%)
Mental stress	198 (8.2%)	4 (11.4%)	9 (16.4%)	12 (13.6%)	21 (14.0%)	3 (9.7%)	4 (22.2%)
Labor/postpartum	3 (0.1%)	1 (2.9%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	2 (6.5%)	0 (0.0%)
Other	173 (7.1%)	9 (25.7%)	3 (5.5%)	19 (21.6%)	11 (7.3%)	5 (16.1%)	1 (5.6%)
Blood pressure on arrival, mmHg							

First SBP - mean/SD	145.4 (30.6)	173.5 (36.3)	143.8 (22.1)	152.9 (37.1)	134.9 (19.2)	137.2 (18.4)	144.7 (24.4)
First DBP - mean/SD	87.5 (19.2)	98.5 (28.0)	83.0 (13.2)	93.9 (25.0)	79.2 (11.9)	86.2 (16.5)	87.2 (12.5)
Killip Class on arrival							
I (no rales)	2211 (92.5%)	31 (91.2%)	53 (96.4%)	78 (90.7%)	133 (88.7%)	29 (93.5%)	17 (94.4%)
II	59 (2.5%)	2 (5.9%)	0 (0.0%)	6 (7.0%)	8 (5.3%)	0 (0.0%)	0 (0.0%)
III	20 (0.8%)	1 (2.9%)	0 (0.0%)	0 (0.0%)	1 (0.7%)	0 (0.0%)	0 (0.0%)
IV	10 (0.4%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
Unknown	89 (3.7%)	0 (0.0%)	2 (3.6%)	2 (2.3%)	8 (5.3%)	2 (6.5%)	1 (5.6%)
Myocardial demand							
Yes (%)	883 (37.1%)	34 (97.1%)	3 (5.6%)	85 (100.0%)	1 (0.7%)	12 (38.7%)	4 (23.5%)
Severe hypertension (BP >180/100 mmHg)	244 (100.0%)	16 (100.0%)	2 (100.0%)	18 (100.0%)	0 (0.0%)	1 (100.0%)	0 (0.0%)
Severe hypertension (SBP <90 mmHg)	62 (2.6%)	1 (2.9%)	0 (0.0%)	6 (6.9%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
Heart rate >120 bpm	91 (3.8%)	4 (11.4%)	0 (0.0%)	27 (30.7%)	0 (0.0%)	2 (6.5%)	0 (0.0%)
Atrial fibrillation/flutter	26 (1.1%)	2 (5.7%)	0 (0.0%)	1 (1.2%)	0 (0.0%)	1 (3.2%)	0 (0.0%)
Ventricular fibrillation/tachycardia	2 (0.1%)	0 (0.0%)	0 (0.0%)	2 (2.4%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
Severe illness	48 (2.0%)	6 (17.1%)	0 (0.0%)	7 (8.0%)	0 (0.0%)	3 (9.7%)	1 (5.6%)
Other	83 (3.4%)	8 (22.9%)	0 (0.0%)	18 (20.5%)	1 (0.7%)	1 (3.2%)	1 (5.6%)
Baseline cardiovascular risk factors							
Family history of premature CAD (any relative)	1816 (78.6%)	28 (80.0%)	38 (73.1%)	62 (73.8%)	89 (64.0%)	22 (73.3%)	12 (75.0%)
Hypertension	1620 (66.8%)	32 (91.4%)	35 (63.6%)	55 (62.5%)	84 (56.0%)	16 (51.6%)	12 (66.7%)

Dyslipidemia	1255 (51.9%)	21 (60.0%)	31 (56.4%)	34 (38.6%)	63 (42.0%)	12 (38.7%)	10 (55.6%)
Smoker							
Yes (%)	1773 (73.2%)	23 (65.7%)	36 (65.5%)	54 (61.4%)	80 (53.3%)	12 (38.7%)	13 (72.2%)
No (%)	650 (26.8%)	12 (34.3%)	19 (34.5%)	34 (38.6%)	70 (46.7%)	19 (61.3%)	5 (27.8%)
If Yes, type							
Current (past month)	1407 (79.4%)	15 (65.2%)	29 (80.6%)	41 (75.9%)	45 (56.3%)	8 (66.7%)	8 (61.5%)
Past (last 1 month to 1 year)	76 (4.3%)	4 (17.4%)	2 (5.6%)	3 (5.6%)	1 (1.3%)	0 (0.0%)	0 (0.0%)
Past (>1 year)	265 (14.9%)	4 (17.4%)	5 (13.9%)	10 (18.5%)	34 (42.5%)	4 (33.3%)	5 (38.5%)
Unknown	25 (1.4%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
Diabetes	889 (36.7%)	19 (54.3%)	21 (38.2%)	27 (30.7%)	31 (20.7%)	5 (16.1%)	4 (22.2%)
Obstructive sleep apnea	115 (4.8%)	3 (8.6%)	5 (9.3%)	9 (10.2%)	9 (6.0%)	0 (0.0%)	0 (0.0%)
History of cocaine use	109 (4.5%)	2 (5.7%)	4 (7.3%)	7 (8.0%)	10 (6.7%)	1 (3.2%)	0 (0.0%)
History of alcohol abuse	161 (6.7%)	2 (5.7%)	2 (3.6%)	10 (11.4%)	12 (8.0%)	3 (9.7%)	0 (0.0%)
History of other illicit drug use	193 (8.0%)	4 (11.4%)	2 (3.6%)	12 (13.8%)	17 (11.3%)	3 (9.7%)	2 (11.1%)
Hypercoagulability syndrome	30 (1.2%)	1 (2.9%)	1 (1.8%)	4 (4.5%)	3 (2.0%)	1 (3.2%)	1 (5.6%)
Physical activity							
Recommended	851 (35.4%)	12 (35.3%)	27 (49.1%)	36 (41.4%)	66 (44.0%)	18 (58.1%)	9 (50.0%)
Insufficient	722 (30.0%)	7 (20.6%)	11 (20.0%)	18 (20.7%)	39 (26.0%)	4 (12.9%)	4 (22.2%)
No activity	831 (34.6%)	15 (44.1%)	17 (30.9%)	33 (37.9%)	45 (30.0%)	9 (29.0%)	5 (27.8%)
Obesity	1312 (54.1%)	18 (51.4%)	24 (43.6%)	43 (48.9%)	66 (44.0%)	7 (22.6%)	8 (44.4%)
Menopausal status (women)							
Yes	854 (55.3%)	16 (59.3%)	24 (53.3%)	41 (51.3%)	51 (39.2%)	11 (37.9%)	8 (50.0%)
No	691 (44.7%)	11 (40.7%)	21 (46.7%)	39 (48.8%)	79 (60.8%)	18 (62.1%)	8 (50.0%)

At-risk for CHD (self-report)	1369 (56.6%)	26 (74.3%)	36 (65.5%)	48 (54.5%)	62 (41.6%)	14 (45.2%)	11 (61.1%)
At-risk for CHD (doctor-report)	1198 (50.5%)	26 (74.3%)	33 (62.3%)	40 (46.5%)	55 (37.7%)	13 (41.9%)	9 (50.0%)
Cardiovascular history							
Angina	655 (27.0%)	16 (45.7%)	21 (38.2%)	17 (19.3%)	30 (20.1%)	9 (29.0%)	7 (38.9%)
Myocardial infarction	403 (16.6%)	20 (57.1%)	18 (32.7%)	9 (10.2%)	16 (10.7%)	4 (12.9%)	6 (33.3%)
PCI	416 (17.2%)	12 (34.3%)	12 (21.8%)	5 (5.7%)	3 (2.0%)	4 (12.9%)	8 (44.4%)
CABG	88 (3.6%)	10 (28.6%)	8 (14.5%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	1 (5.6%)
Stroke/transient ischemic attack	107 (4.4%)	6 (17.1%)	3 (5.5%)	4 (4.5%)	5 (3.3%)	1 (3.2%)	3 (16.7%)
Congestive heart failure	102 (4.2%)	7 (20.0%)	6 (10.9%)	6 (6.8%)	5 (3.3%)	2 (6.5%)	1 (5.6%)
Peripheral artery disease	62 (2.6%)	3 (8.6%)	3 (5.5%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
Non-cardiac history							
Chronic renal failure	255 (10.6%)	11 (31.4%)	8 (15.1%)	11 (12.5%)	14 (9.4%)	2 (6.5%)	1 (5.6%)
Lung disease	263 (10.9%)	6 (17.6%)	15 (27.3%)	17 (19.3%)	21 (14.0%)	3 (9.7%)	2 (11.1%)
Depression	963 (39.7%)	18 (51.4%)	30 (54.5%)	42 (47.7%)	66 (44.0%)	16 (51.6%)	8 (44.4%)
Venous thromboembolism	62 (2.6%)	2 (5.7%)	1 (1.8%)	3 (3.4%)	5 (3.3%)	2 (6.5%)	1 (5.6%)
Cancer	78 (3.2%)	1 (2.9%)	3 (5.5%)	6 (6.8%)	4 (2.7%)	1 (3.2%)	1 (5.6%)
Chronic viral syndrome	28 (1.2%)	0 (0.0%)	1 (1.8%)	0 (0.0%)	1 (0.7%)	0 (0.0%)	1 (5.6%)
Autoimmune disease	74 (3.1%)	0 (0.0%)	0 (0.0%)	3 (3.4%)	7 (4.7%)	1 (3.2%)	1 (5.6%)
Thyroid disease	167 (6.9%)	0 (0.0%)	4 (7.3%)	5 (5.7%)	19 (12.7%)	2 (6.5%)	1 (5.6%)
Major psychiatric diagnosis	109 (4.5%)	3 (8.6%)	1 (1.8%)	1 (1.1%)	12 (8.0%)	3 (9.7%)	0 (0.0%)
Polycystic ovarian syndrome (women)	12 (0.8%)	0 (0.0%)	1 (2.2%)	0 (0.0%)	1 (0.8%)	0 (0.0%)	0 (0.0%)

Baseline health status

SF-12, mean (SD)							
Physical component summary	42.8 (12.0)	35.5 (13.6)	41.5 (12.7)	43.8 (12.0)	46.5 (12.7)	49.4 (8.7)	49.1 (9.9)
Mental component summary	45.6 (12.3)	41.9 (12.3)	46.8 (11.9)	45.4 (13.6)	44.1 (13.1)	46.9 (15.3)	43.4 (13.6)
Seattle Angina Questionnaire, median (IQR)							
Physical limitation	94.4 (66.7-100)	75.0 (33.3-100)	90.3 (73.6-100)	91.7 (58.3-100)	100 (83.3-100)	100 (84.7-100)	100 (75.0-100)
Angina frequency	90.0 (70.0-100)	80.0 (70.0-100)	90.0 (70.0-100)	90.0 (80.0-100)	100 (80.0-100)	90.0 (80.0-100)	90.0 (80.0-100)
Treatment satisfaction	100 (87.5-100)	93.8 (75.0-100)	93.8 (81.3 -100)	100 (81.3-100)	93.8 (81.3-100)	100 (81.3-100)	93.8 (75.0-100)
Quality of life	58.3 (41.7-75.0)	41.7 (25.0-75.0)	50.0 (33.3-66.7)	58.3 (41.7-83.3)	58.3 (41.7-75.0)	58.3 (50.0-75.0)	58.3 (41.7-83.3)
Stress scale (PSS-I), mean (SD)	25.9 (9.8)	27.9 (10.4)	27.0 (10.9)	25.4 (9.4)	27.3 (9.9)	26.5 (9.3)	29.9 (9.0)
Troponin							
Maximum troponin (mean, SD)	28.6 (57.0)	4.5 (5.5)	10.3 (18.9)	7.6 (27.3)	6.8 (11.3)	17.5 (17.5)	11.1 (14.3)
Reperfusion therapy							
*Criteria for primary reperfusion met, Yes (%)	1168 (48.2%)	1 (2.9%)	2 (3.6%)	6 (6.9%)	9 (6.0%)	7 (22.6%)	1 (5.6%)
PCI, Yes (%)	1092 (93.5%)	NA	NA	NA	NA	NA	NA
Echocardiogram							
Obtained, Yes (%)	1639 (67.8%)	24 (68.6%)	34 (61.8%)	68 (77.3%)	114 (76.0%)	27 (87.1%)	14 (77.8%)
If LV systolic function documented							
≥55%	790 (50.0%)	10 (47.6%)	19 (55.9%)	39 (60.9%)	77 (70.0%)	14 (56.0%)	9 (64.3%)
45-54%	404 (25.6%)	5 (23.8%)	8 (23.5%)	13 (20.3%)	17 (15.5%)	7 (28.0%)	2 (14.3%)

35-44%	242 (15.3%)	2 (9.5%)	5 (14.7%)	6 (9.4%)	12 (10.9%)	3 (12.0%)	3 (21.4%)
<35%	145 (9.2%)	4 (19.0%)	2 (5.9%)	6 (9.4%)	4 (3.6%)	1 (4.0%)	0 (0.0%)
Physician's final diagnosis							
NSTEMI	1128 (46.5%)	29 (82.9%)	49 (89.1%)	75 (85.2%)	128 (85.3%)	24 (77.4%)	15 (83.3%)
STEMI	1297 (53.5%)	6 (17.1%)	6 (10.9%)	13 (14.8%)	22 (14.7%)	7 (22.6%)	3 (16.7%)
Aspirin on arrival							
Yes	2344 (97.4%)	34 (97.1%)	54 (98.2%)	83 (98.8%)	142 (95.9%)	31 (100.0%)	18 (100.0%)
Medications at discharge							
Aspirin	2368 (98.8%)	34 (97.1%)	51 (94.4%)	73 (90.1%)	131 (91.6%)	30 (100.0%)	18 (100.0%)
Oral antiplatelet	2099 (88.5%)	25 (75.8%)	30 (56.6%)	24 (31.2%)	49 (36.0%)	18 (62.1%)	11 (64.7%)
Beta-blocker	2275 (98.5%)	32 (97.0%)	45 (88.2%)	66 (86.8%)	101 (83.5%)	20 (83.3%)	14 (93.3%)
ACE inhibitor/ARB	1607 (73.4%)	25 (78.1%)	34 (66.7%)	44 (54.3%)	58 (44.3%)	13 (48.1%)	9 (50.0%)
Lipid-lowering medication	2303 (96.8%)	34 (100.0%)	46 (86.8%)	62 (75.6%)	91 (66.9%)	23 (85.2%)	17 (100.0%)
1-year mortality							
Overall	53 (2.2%)	1 (3.0%)	1 (1.9%)	2 (2.4%)	1 (0.7%)	2 (6.9%)	0 (0.0%)
Women	40 (2.6%)	1 (4.0%)	1 (2.3%)	2 (2.6%)	1 (0.8%)	2 (7.4%)	0 (0.0%)
Men	13 (1.5%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)

*Criteria for reperfusion: chest pain >30 minutes, but >12 hours AND, ST elevation >1mm in ≥ 2 consecutive leads or new left bundle branch block

ACE, angiotensin-converting enzyme; ARB, angiotensin-receptor blocker; CABG, coronary artery bypass graft surgery; CAD, coronary artery disease; CHD, congestive heart disease; DBP, diastolic blood pressure; IQR, interquartile range; LV, left ventricular; NSTEMI, non-ST-elevation myocardial infarction; PCI, percutaneous coronary intervention; PSS-I, Posttraumatic symptom scale; SBP, systolic blood pressure; SD, standard deviation; SF-12, 12-Item Short Form Health Survey; STEMI, ST-elevation myocardial infarction

Appendix 1. Classification by VIRGO Taxonomy and Third Universal Definition of MI with Case Examples

	VIRGO Taxonomy	Universal Definition	Clinical Scenarios
Culprit Lesion: Acute occlusion of a (major) epicardial vessel			
Case 1	1	1	41 y F, migraines and + family history, p/w migraine and chest pain. AWSTEMI; LAD totally occluded s/p PCI; no other significant disease. EF 25% to 55%.
Case 2	1	1	53 y F, HTN, HL, CKD, p/w chest pain and hypertensive crisis. BP 233/166. IWSTEMI; LCX 90% occluded; OM2 100% occluded s/p PCI and 100% LAD stenosis with recanalization, s/p staged PCI.
Case 3	1	1	50 y M, psoriasis and + family history, p/w crushing CP; NSTEMI; LAD with sequential 95% lesions - s/p PCI; no other significant disease
Case 4	1	1	54 y F, smoker, p/w chest pain. IWSTEMI; posterior LAD with 80% ulcerated lesion - s/p PCI. Mid-RCA 60-70%; no other significant disease
Case 5	1	1	49 y F, smoker, with hyperlipidemia and anxiety, p/w 2 weeks of intermittent chest pain and dyspnea. IWSTEMI with 3rd degree heart block. RCA 100% occluded - s/p PCI; no other disease
Obstructive CAD (≥50% stenosis) with evidence supporting myocardial oxygen supply-demand mismatch			
Case 6	2a	2	55 y F, DM, HTN, obesity p/w chest pain and severe hypertension. BP 190/112; NSTEMI with dynamic ECG; 2V non-significant disease (RCA 40-65%; LAD with 60-70% lesions); no culprit; medically managed
Case 7	2a	2	47 y F, HTN, seizures, cocaine and heroine abuse, p/w chest pain, dyspnea and diaphoresis. BP 142/110, p. 114. NSTEMI. Single vessel disease with CTO of RCA; medically managed
Case 8	2a	2	48 y F, smoker, migraines and + family history, p/w chest pain. BP 187/94. NSTEMI with dynamic ECG. PDA 50-60% - no response to IC nitroglycerin. OM1 30% stenosis. Dyskinesia in inferoapical wall; medically managed
Case 9	2a	2	54 y F, DM, HTN, prior stroke, p/w chest pain and severe HTN. BP 173/127. NSTEMI; branch of ramus 80% stenosed; LAD tortuous with 30% lesion; RCA tortuous. LVEF 35% w/ large anteroapical aneurysm
Case 10	2a	2	38 y F, smoker, HTN, HL, CKD and CAD-prior PCI 9 days prior; p/w severe chest pain and BP 181/116. NSTEMI with dynamic ECG; Patent stent in LCX. Unchanged 50% LAD; Unchanged 70% Ramus
Obstructive CAD (≥50% stenosis) without evidence supporting myocardial oxygen supply-demand mismatch			
Case 11	2b	2/Unclassified	48 y M, smoker, polysubstance use, p/w chest pain. NSTEMI; cath with multivessel disease. Left main 50%; Diagonal 75%; LCX diffuse disease; RCA with CTO. Normal LV systolic function
Case 12	2b	Unclassified	44 y F, smoker, p/w CP. NSTEMI; distal LAD 60% stenoses, otherwise minor luminal irregularities. ECHO with severe apical hypokinesia
Case 13	2b	Unclassified	54 y F, HTN, p/w chest pain while carrying grandchild on beach. NSTEMI; ostial D1 lesion 50% stenosed; otherwise normal coronary arteries. ADD ECHO
Case 14	2b	Unclassified	53 y F, fibromyalgia, p/w crushing chest pain. Husband critically ill in ICU. NSTEMI. Cath 40% ostial LM; RPL 60%; otherwise luminal irregularities. ADD ECHO
Case 15	2b	Unclassified	34 y F, CAD - s/p AMI and PCI; p/w chest pain. NSTEMI. Stress test: large anterolateral anterior defect, partially reversible. Cath with 50% in-stent restenosis of LAD; pOM1 80% lesion; pRCA 60%; medically managed.
Non-obstructive CAD (<50% stenosis) with evidence supporting myocardial oxygen supply-demand mismatch			
Case 16	3a	2	52 y F, COPD, fibromyalgia, seizures p/w altered mental status, pneumonia, COPD exac. NSTEMI; LAD 30% hazy lesion; RCA 40% eccentric lesion. Neither considered culprit. ECHO with RV failure
Case 17	3a	2	44 y F, HTN, DM, h/o pulmonary embolism, obesity, p/w chest pain and dyspnea with exertion. BP 200s systolic. NSTEMI. Cath with minimal disease. Hypokinesia of basal inferior wall, NI LVEF
Case 18	3a	2	54 y M, COPD, p/w respiratory failure requiring intubation, fever, BP 187/108, p. 144. Cath with minimal stenosis of AV groove; otherwise normal. LVEF 30% with septal and lateral wall motion abnormalities
Case 19	3a	2	38 y F, morbid obesity, + family history, p/w back pain radiating to chest. BP 151/105, p. 121. NSTEMI. Cath 30% RCA, mild anterior hypokinesia
Case 20	3a	2	36 y F, smoker, HTN, HL, DM with chest pain x 20 years; now worse. BP 170/111. Stress test: chest pain, no ECG changes, but with rising troponins. NSTEMI. Cath with 20% LAD lesion, otherwise normal. ECHO with LVH and normal LVEF
Non-obstructive CAD (<50% stenosis) without evidence supporting myocardial oxygen supply-demand mismatch			
Case 21	3b	Unclassified	26 y F, with h/o gestational HTN, p/w chest pain that awoke her from sleep at 5am. NSTEMI. No evidence of pulmonary embolism. Normal coronaries. ADD ECHO. Rheumatologic evaluation negative. Thrombilia eval pending at time of discharge.
Case 22	3b	Unclassified	54 y F, with + family history, p/w chest pain while on treadmill. NSTEMI. Normal coronaries. Distal inferior hypokinesia. Empirically treated for vasospasm
Case 23	3b	Unclassified	48 y F, smoker, p/w fever, chills, vomiting. ECG with bigeminy. NSTEMI. Normal coronaries. Normal LVEF with mild inferior hypokinesia
Case 24	3b	Unclassified	37 y F, with obesity, chronic back pain, + family history, p/w chest and back pain. NSTEMI. Normal coronaries. Normal LV systolic function
Case 25	3b	Unclassified	51 y F, HTN, HL, p/w chest pain in setting of witnessing natural disaster. NSTEMI. Normal coronaries. LV gram EF 25%; aknesis of anterior and inferior walls small portion of apex contracting normally
Other discrete pathophysiologic mechanism (e.g., Vasospasm, Dissection; Embolism; Takotsubo)			
Case 26	4 - Dissection	1	41 y F, marathon runner, p/w chest pain at rest. NSTEMI. Spontaneous dissection of 1st OM and 2nd OM arteries with 90% and 100% stenosis, respectively; otherwise normal. NI LVEF with inferior hypokinesia. Medically managed
Case 27	4 - Vasospasm	2	50 y F, smoker, + family history, p/w chest pain. AWSTEMI. Initial cath with ostial 90% LAD and 75-50% LCX. Spasm of b/l femoral arteries prevented PCI. 2nd cath with mild disease that responded to IC nitro. LVEF 39% with global hypokinesia
Case 28	4 - Vasospasm	2	52 y F, anxiety, panic attacks, TIA symptoms, p/w chest pain after learning of child's death; ECG: diffuse ST depressions; LAD tubular stenosis improved with IC nitro; LV gram EF 35-40%; f/u ECHO with normal LVEF
Case 29	4 - Vasospasm	2	47 y F, HTN, p/w chest pain while walking. ECG with bigeminy. NSTEMI. Mid-LAD 50% stenosis relieved with IC nitro; otherwise normal coronaries. LVEF 35-40% with anterior and apical hypokinesia. F/U ECHO with EF 45-50%
Case 30	4 - Dissection	1	52 y F, DM, HTN, CAD - s/p PCI, p/w chest pain and vomiting. Found to be in DKA. IWSTEMI. Cath with dissection of RPL (otherwise no different than prior cath 3 months ago). LVEF 55% with inferior hypokinesia
Undetermined: Presentation fits into 2 or more classes above, depending on interpretation of description			
Case 31	5	1/Unclassified	50 y F, p/w chest pain x 2 days following death of friend. NSTEMI. LAD 40% with distal staining concerning for recent plaque rupture. ECHO LVEF 20-25%; hypokinesia of midseptum; mid anterolateral and basal anterior and inferior walls. Apex n
Case 32	5	1/Unclassified	49 y F, DM, HTN, HL, + family hx p/w chest pain. NSTEMI. Normal coronaries except for possible D1 hazy lesion; Medical team uncertain of this being the culprit. Normal LV systolic function
Case 33	5	1/Unclassified	38 y M, smoker, p/w chest pain. IWSTEMI with associated q waves. Cath within 6 hours of pain onset. Coronaries normal except late filling of extreme distal portion of superior division of 1st OM. LV gram with mild hypokinesia of inferior wall. EF 60%. "Possible culprit"
Case 34	5	1/Unclassified	37 y F, p/w chest pain > 1day. AWSTEMI. Distal LAD very small lumen that "tailed off" with faint collaterals; possibly occluded; otherwise normal coronaries. ECHO mid-septal/anteroseptal/anterior and apical septal/anterior/inferior akinesia EF 35-40%
Case 35	5	1/Unclassified	52 y F, Asian, breast cancer, borderline HTN p/w chest pain. EKG: intermittent BBB. Distal LAD with sudden tapering into hair-like vessels; diffusely diseased and subtotally occluded; LCX and RCA also with terminal portions that are small and tortuous. Apical dyskinesia EF 50%