

Table 1: Demographics, cohort characteristics and investigations (excludes 1,200 patients without clinical details other than basic demographic information).

	Suspected STEMI <24h (n=5981)						Other suspected ACS (n=23136)		
Final diagnosis	STEMI n=5491 (91.8%)	NSTEACS n=212 (3.5%)	Non-ACS n=278 (4.6%)	p-value, STEMI vs NSTEACS	p-value, STEMI vs non-ACS	p-value, NSTEACS vs non-ACS	ACS n=19597 (84.7%)	Non-ACS n=3539 (15.2%)	p-value
Age (years)									
<65 n (%)	3,125 (56.9)	123 (58.0)	181 (65.1)	0.749	0.007	0.109	9,145 (46.7)	2,117 (59.8)	<.001
≥65 n (%)	2,366 (43.1)	89 (42.0)	97 (34.9)				10,452 (53.3)	1,422 (40.2)	
Median (IQR)	63 (54 to 72)	63 (54 to 71.5)	58.5 (47 to 70)				67 (58 to 74)	62 (53 to 71)	
Sex, n (%)									
Male	4,064 (74.0)	151 (71.2)	164 (59.0)	0.365	<.001	0.005	13,401 (68.4)	1,796 (50.7)	<.001
Female	1427 (26.0)	61 (28.8)	114 (41.0)				6,196 (31.6)	1,743 (49.3)	
Ethnicity, n (%)									
Māori	542 (9.9)	20 (9.4)	27 (9.7)	0.010	0.025	0.956	2,174 (11.1)	452 (12.8)	0.001
Pacific	255 (4.6)	21 (9.9)	25 (9.0)				1,012 (5.2)	210 (5.9)	
Indian	312 (5.7)	14 (6.6)	17 (6.1)				884 (4.5)	136 (3.8)	
Other Asian	247 (4.5)	11 (5.2)	11 (4.0)				592 (3.0)	127 (3.6)	
European/Other	4,135 (75.3)	146 (68.9)	198 (71.2)				14,935 (76.2)	2,614 (73.9)	
Past medical history and risk factors									
History of CVD, n (%)	1,042 (19.0)	67 (31.6)	38 (13.7)	<.001	0.027	<.001	6,874 (35.1)	866 (24.5)	<.001
History of MI, n (%)	711 (12.9)	51 (24.1)	32 (11.5)	<.001	0.485	<.001	4,432 (22.6)	445 (12.6)	<.001
History CHF, n (%)	80 (1.5)	10 (4.7)	3 (1.1)	0.002	0.798	0.013	782 (4.0)	150 (4.2)	0.490
Diabetes, n (%)	955 (17.4)	56 (26.4)	33 (11.9)	0.001	0.017	<.001	4,828 (24.6)	602 (17.0)	<.001
COPD, n (%)	395 (7.2)	16 (7.5)	20 (7.2)	0.845	1.000	0.882	1,906 (9.7)	406 (11.5)	0.001
BMI									
Mean ± SD	28.5 ± 5.6	29.2 ± 5.8	27.7 ± 6.9	0.111	0.012	0.04	29.4 ± 6.0	29.6 ± 6.8	0.418
Total cholesterol (mmol/l)									
Median (IQR)	4.8 (4.0 to 5.7)	4.9 (3.8 to 5.9)	3.9 (3.5 to 4.8)	0.934	0.003	0.004	4.7 (3.8 to 5.7)	4.6 (3.6 to 5.4)	0.079

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LDL (mmol/l)									
Median (IQR)	2.9 (2.2 to 3.6)	2.8 (2.0 to 3.6)	2.4 (1.8 to 3.1)	0.335	<.001	<.001	2.7 (2.0 to 3.6)	2.7 (2.0 to 3.5)	0.211
Smoking status n (%)									
Non-smoker	2,364 (43.1)	98 (46.2)	145 (52.2)	0.233	0.011	0.183	8,475 (43.2)	1,891 (53.4)	<.001
Ex-smoker	1,426 (26.0)	60 (28.3)	59 (21.2)				6,914 (35.3)	1,042 (29.4)	
Current smoker	1,701 (31.0)	54 (25.5)	74 (26.6)				4,208 (21.5)	6,06 (17.1)	
Clinical presentation									
Killip Class									
I	4,943 (90.0)	192 (90.6)	260 (93.5)	<.001	0.055	0.225	17,838 (91.0)	3,213 (90.8)	0.652
II-IV	548 (10.0)	20 (9.4)	18 (6.5)				1,759 (9.0)	326 (9.2)	
Admission systolic BP (mmHg)									
Median (IQR)	133 (116 to 151)	135 (129 to 150)	130 (114 to 150)	0.565	0.352	0.274	141 (126 to 160)	138 (122 to 155)	<.001
Investigations									
Stress test done, n (%)	46 (0.9)	2 (0.9)	5 (1.8)	0.699	0.097	0.704	1,276 (6.5)	561 (15.9)	<.001
CTCA done, n (%)	224 (4.1)	11 (5.2)	8 (2.9)	0.425	0.320	0.189	1,065 (5.4)	211 (6.0)	0.206
LVEF*									
Normal (≥50%)	2,087 (38.0)	92 (43.4)		<.001	-	-	9,543 (48.7)		-
Mild (40 to 49%)	1,409 (25.7)	35 (16.5)	-				2,496 (12.7)		
Moderate or severe (<40%)	1,139 (20.7)	32 (15.1)					2,182 (11.1)		
No EF documented	856 (15.6)	53 (25)					5,376 (27.4)		
Revascularisation*	5,045 (91.9)	146 (67.9)	-	<.001	-	-	12,935 (66.0)	-	-
CABG	239 (4.4)	30 (14.2)	-	<.001	-	-	2,788 (14.2)	-	-
PCI	4,806 (87.5)	116 (54.7)	-	<.001	-	-	10,147 (51.8)	-	-

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Acute reperfusion strategy*									
Primary PCI	3,880 (70.7)	-	-	-	-	-	-	-	-
Thrombolysis	1,174 (21.4)	-	-	-	-	-	-	-	-
None	437 (8.0)	-	-	-	-	-	-	-	-
Angiographic findings									
CAD >50% stenosis on angiogram, n (%)									
No obstructive disease	192 (3.5)	29 (13.7)	227 (81.7)				3,025 (15.5)	2,811 (79.6)	
Single/double vessel disease	4,123 (75.1)	122 (57.6)	37 (13.3)	<.001	<.001	<.001	10,438 (53.4)	519 (14.7)	<.001
Three vessel disease and/or LMS >50%	1,172 (21.4)	61 (28.8)	14 (5.0)				6,087 (31.1)	203 (5.8)	
Time from admission to angiogram (days)									
n	5487	212	278				19,550	3,533	
Mean ± SD	0.24 ± 0.86	0.75 ± 1.35	0.19 ± 0.78	<.001	0.058	<.001	2.66 ± 2.36	2.66 ± 3.05	0.090

STEMI, ST-segment elevation myocardial infarction; NSTEMI, non ST elevation acute coronary syndrome; CVD, cardiovascular disease; MI, myocardial infarction; CHF, congestive heart failure; COPD, chronic obstructive pulmonary disease; BMI, body mass index; LDL, low density lipoprotein cholesterol; BP, blood pressure ;CTCA, CT coronary angiogram; LVEF, left ventricular ejection fraction; CABG, coronary artery bypass grafting; PCI, percutaneous coronary intervention; CAD, coronary artery disease; LMS, left main stem.

*Data regarding LVEF and revascularization are not collected for non-ACS patients in the ANZACS-QI registry.