

Supplementary Table 1: Logistic Regression of AMI on MACS rule variables

	OR (Bootstrapped 95% CI)	Proportion of bootstrap samples in which lower CI for the OR exceeded 1	Coefficient (Bootstrapped 95% confidence intervals)	Coefficient in original MACS rule	Coefficient in original T-MACS rule
hs-TnT	1.1 (1.1-1.1)	1000 (100%)	0.10 (0.08 to 0.13)	0.07	0.09
h-FABP	1.0 (0.9-1.0)	3 (0.3%)	-0.02 (-0.07 to 0.02)	0.17	N/A
ECG indicative of ischaemia	4.2 (1.9-9.5)	874 (87.4%)	1.44 (0.63 to 2.26)	1.75	1.713
Sweating	1.5 (0.8-2.8)	270 (27.0%)	0.41 (-0.21 to 1.03)	1.85	2.058
Vomiting	0.8 (0.2-3.2)	24 (2.4%)	-0.22 (-1.58 to 1.15)	1.72	1.417
SBP<100 mg Hg	1.4 (0.2-7.4)	85 (8.5%)	0.31 (-1.40 to 2.01)	1.46	1.208
Previous Angina	0.7 (0.3-1.4)	1 (1%)	-0.40 (-1.14 to 0.34)	0.92	0.847
Pain radiates to arms or shoulder	2.0 (1.1-3.8)	599 (59.9%)	0.69 (0.05 to 1.33)	0.87	0.607
Constant			-4.88 (-5.61 to -4.15)	-4.83	-4.766

AMI=acute myocardial infarction, MACS=Manchester Acute Coronary Syndromes, T-MACS=Troponin-only Manchester Acute Coronary Syndromes, OR=odds ratio, CI=confidence interval, hs-TnT=high sensitivity cardiac troponin T, h-FABP=heart fatty acid binding protein, ECG=electrocardiogram, SBP=systolic blood pressure

Supplementary Table 2: Risk categories by outcome using the original MACS rule and modified MACS rule in the Brisbane cohort only

	MACS		Modified MACS	
	Total (n=789)	AMI (n=46) % of patients in category (95% CI)	Total (n=789)	AMI (n=46) % of patients in category (95% CI)
Very Low Risk	109 (13.8%)	1 0.9% (0.0-5.0%)	100 (12.7%)	1 1.0% (0.0-5.4%)
Low Risk	123 (15.6%)	1 0.8% (0.0-4.4%)	120 (15.2%)	1 0.8% (0.0-4.6%)
Moderate Risk	513 (65.0%)	19 3.7% (2.2-5.7%)	523 (66.3%)	19 3.6% (2.2-5.6%)
High Risk	44 (5.6%)	25 56.8% (41.0-71.7%)	46 (5.8%)	25 54.3% (39.0-69.1%)

	T-MACS		Modified T-MACS	
	Total (n=789)	AMI (n=46) % of patients in category (95% CI)	Total (n=789)	AMI (n=46) % of patients in category (95% CI)
Very Low Risk	190 (24.1%)	1 0.5% (0.0-2.9%)	172 (21.8%)	1 0.6 (0.0-3.2%)
Low Risk	88 (11.1%)	1 1.1% (0.0-6.2%)	102 (12.9%)	1 1.0 (0.0-5.3%)
Moderate Risk	477 (60.5%)	24 5.0% (3.2-7.4%)	479 (60.7%)	24 5.0% (3.2-7.4%)
High Risk	34 (4.3%)	20 58.8% (40.7-75.4%)	36 (4.6%)	20 55.6 (38.1-72.1%)

MACS=Manchester Acute Coronary Syndromes, AMI=acute myocardial infarction, CI=confidence interval, T-MACS=Troponin-only Manchester Acute Coronary Syndromes.

Supplementary Table 2: Diagnostic accuracy statistics for the original and modified MACS and T-MACS rules on the Brisbane cohort only

	MACS		Modified MACS	
	Sensitivity	Specificity	Sensitivity	Specificity
	(95% CI)	(95% CI)	(95% CI)	(95% CI)
MACS rule very low risk	97.8%	14.5%	97.8%	13.3%
	(88.5-99.9%)	(12.1-17.3%)	(88.5-99.9%)	(11.0-16.0%)
MACS rule high risk	54.3%	97.4%	54.3%	97.2%
	(39.0-69.1%)	(96.0-98.5%)	(39.0-69.1%)	(95.7-98.2%)
	T-MACS		Modified T-MACS	
T-MACS rule very low risk	97.8	25.4%	97.8	23.0%
	(88.5-99.9%)	(22.3-28.7%)	(88.5-99.9%)	(20.0-26.2%)
T-MACS rule high risk	43.5%	98.1%	43.5%	97.8%
	(28.9-58.9%)	(96.9-99.0%)	(28.9-58.9%)	(96.5-98.8%)

MACS=Manchester Acute Coronary Syndromes, CI=confidence interval

T-MACS= Troponin-only Manchester Acute Coronary Syndromes.