

<b>HEART Score</b>		
<b>History</b>	Highly suspicious	2
	Moderately suspicious	1
	Slightly or nonsuspicious	0
<b>ECG</b>	Acute ischemia	2
	LBBB, RBBB, LVH, PM	1
	No signs of acute ischemia	0
<b>Age</b>	≥ 65 years	2
	45 – 65 years	1
	≤ 45 years	0
<b>Risk factors</b>	≥ 3 risk factors, or history of atherosclerotic disease	2
	1 or 2 risk factors	1
	No risk factors known	0
<b>Troponin</b>	> 42 ng/L	2
	15-42 ng/L	1
	≤ 14 ng/L	0
<b>RULE-OUT REQUIRES:</b>		
<b>HEART Score ≤3 points</b>		

### Appendix, Table 1. HEART Score

Risk factors= Diabetes mellitus, current or recent (<30 days) smoker, hypertension, hypercholesterolemia, and family history of coronary artery disease.

<b>HEART Score</b>		
<b>History</b>	Highly suspicious	2
	Moderately suspicious	1
	Slightly or nonsuspicious	0
<b>ECG</b>	Acute ischemia	2
	LBBB, RBBB, LVH, PM	1
	No signs of acute ischemia	0
<b>Age</b>	≥ 65 years	2
	45 – 65 years	1
	≤ 45 years	0
<b>Risk factors</b>	≥ 3 risk factors, or history of atherosclerotic disease	2
	1 or 2 risk factors	1
	No risk factors known	0
<b>Troponin</b>	> 42 ng/L	2
	15-42 ng/L	1
	≤ 14 ng/L	0

#### **HEART 0h/1h PATHWAY RULE-OUT REQUIRES:**

**HEART Score ≤3 points**

**AND**

**0h hs-cTnT < 5 ng/L,**

**OR**

**0h hs-cTnT < 12 ng/L with a 1h increase < 3ng/ L**

#### **Appendix, Table 2. HEART Pathway**

Risk factors= Diabetes mellitus, current or recent (<30 days) smoker, hypertension, hypercholesterolemia, and family history of coronary artery disease.

<b>EDACS Score</b>	
<b>Male sex</b>	+6
<b>Age</b>	
18-45	+2
46-50	+4
51-55	+6
56-60	+8
61-65	+10
66-70	+12
71-75	+14
76-80	+16
81-86	+18
86+	+20
<b>Aged 18-50 years and either</b> known coronary artery disease <sup>  </sup> or ≥ 3 risk factors <sup>‡</sup>	+4
<b>Symptoms and signs</b>	
Diaphoresis	+3
Radiates to arm or shoulder	+5
Pain worsened with inspiration	-4
Pain is reproduced by palpation	-6
<b>EDACS 0h/1h-ADP RULE-OUT REQUIRES:</b>	
<b>EDACS &lt; 16 points</b>	
<i>AND</i>	
<b>No sign of acute ischemia on the ECG</b>	
<i>AND</i>	
<b>0h hs-cTnT &lt; 5 ng/L,</b>	
<i>OR</i>	
<b>0h hs-cTnT &lt; 12 ng/L with a 1h increase &lt; 3ng/L</b>	

### Appendix, Table 3. EDACS

EDACS= Emergency Department Assessment of Chest pain Score, ADP= Accelerated Diagnostic

Protocol, hs-cTnT= high-sensitivity troponin T, ECG= electrocardiography.

|| Coronary artery disease (CAD) defined as previous acute myocardial infarction, coronary artery bypass graft or percutaneous coronary intervention. #Risk factors = family history of premature CAD, dyslipidemia, diabetes, hypertension, and current smoker.

	Patients included n=939	Patients excluded n=228	p-value
<b>General information</b>			
Age, years mean, SD	60.6 (17.4)	60.4 (18.4)	0.91
Male sex	514 (54.7%)	124 (54.4%)	0.92
<b>History of</b>			
Previous myocardial infarction	188 (20.0%)	46 (20.2%)	0.96
Previous angina	197 (21.0%)	42 (18.4%)	0.39
Previous revascularisation – CABG	81 (8.6%)	20 (8.8%)	0.94
Previous revascularization – PCI	164 (17.5%)	38 (16.7%)	0.78
Diabetes mellitus type 1 or 2	134 (14.3%)	28 (12.3%)	0.44
Hypertension	415 (44.2%)	91 (39.9%)	0.24

#### Appendix, Table 4. Comparison between included and excluded patients

\*Values are mean (SD) or n (%).

SD – standard deviation, CABG- coronary artery bypass graft, PCI- percutaneous coronary intervention, ADP inhibitor- Adenosine diphosphate receptor inhibitor, ACE/ARB blocker- Angiotensin=converting enzyme inhibitor/ Angiotensin II receptor blocker, ECG- electrocardiogram, ACS- acute coronary syndrome, MACE- major adverse cardiac event

	<b>Sensitivity %</b> (95% CI)	<b>NPV %</b> (95% CI)
<b><i>Early presenters (≤3h)</i></b>		
HEART score ≤3 and 0h hs-cTnT <5 ng/L, n= 83	100.0 (92.0-100.0)	100.0 (95.6-100.0)
EDACS<16 and non-ischemic ECG and 0h hs-cTnT <5 ng/L, n= 77	97.7 (88.0-99.9)	98.7 (91.6-99.8)
<b><i>Late presenters (&gt;3h)</i></b>		
HEART score ≤3 and 0h hs-cTnT <5 ng/L, n= 178	100.0 (94.9-100.0)	100.0 (97.9-100.0)
EDACS<16 and non-ischemic ECG and 0h hs-cTnT <5 ng/L, n= 174	97.6 (91.7-99.7)	98.9 (95.9-99.7)

**Appendix, Table 5** Performance of the HEART score and the EDACS-ADP combined with a 0h hs-cTnT <5 ng/L for ruling out 30-day MACE in patients presenting early (≤3h) vs late (>3h).

\*Values are presented as proportions with 95% confidence intervals. 932 included patients, data on chest pain onset missing in seven.

EDACS= Emergency Department Assessment of Chest pain Score

ADP= Accelerated Diagnostic Protocol

hs-cTnT= troponin T

MACE – major adverse cardiac events

CI – confidence interval

NPV=negative predictive value