

**Supplementary table 1.** List of variables with a significant difference between cases of agreement and cases of disagreement in a univariate model and inclusion in the multivariate logistic regression model.

Variable	<i>p</i>	Valid cases	Inclusion
Chest X-ray performed, yes/no	<0.001	All	Yes
CT thorax performed, yes/no	<0.001	All, only 93 yes	No
ST-elevation MI, yes/no	<0.001	All	Yes
Heart rate	<0.001	1262	Yes
Coronary angiography performed, yes/no	<0.001	All	Yes
Respiratory rate	<0.001	886	No
Oxygen saturation	<0.001	1027	Yes
LDL cholesterole	<0.001	639	No
cTn maximum level	<0.001	1301	Yes
cTn dynamics	<0.001	1153	Yes
CRP on damission	<0.001	1283	Yes
CRP maximum level	<0.001	1284	Yes
Hemoglobin	<0.001	1299	Yes
Registered in SWEDEHEART, yes/no	<0.001	All	Yes
Cardiology department, yes/no	<0.001	All	Yes
Chest pain, yes/no	<0.001	All	Yes
Ongoing chest pain, yes/no	<0.001	All	Yes
Dyspnea, yes/no	<0.001	All	Yes
Prior stroke or TIA, yes/no	<0.001	All	Yes
Active smoker, yes/no	<0.001	All	Yes
Age, years	<0.001	All	Yes
non-cardiac related symptoms*, yes/no	0.001	All	Yes
Systolic blood pressure	0.001	1261	Yes
Dementia, yes/no	0.002	All	Yes
Creatinine on admission	0.002	1306	Yes
Echocardiography performed, yes/no	0.002	All	Yes
Creatinine maximum level	0.003	1308	Yes
Male sex, yes/no	0.004	All	Yes
COPD	0,006	All	Yes
CKD	0.008	All	Yes
Total cholesterole	0.010	649	No
O2 content (arterial blood gas)	0.021	177	No
Periferal arterial disease	0,021	All	Yes
pO2 (arterial blood gas)	0.022	192	No
Known atrial fibrillation, yes/no	0,024	All	Yes
Known heart failure, yes/no	<0.001	All	Yes

CT – computer thomography, MI – myocardial infarction, cTn – cardiac troponin, CRP – C-reactive protein, TIA – transorient ischemic attack, COPD chronic obstructive pulmonary disease, CKD – chronic kidney disease, pO2 – arterial oxygen partial pressure. \* other symptoms than chest pain, dyspnea or palpitations.

**Supplementary table 2.** Comparison in distinguishing type 1 MI between the initial two reviewers (K: 0.61; overall agreement: 82.6%).

1st Reviewer	2nd Reviewer		
	MI type 1	Other	Total
MI type 1	761	126	887
Other	105	336	441
Total	866	462	1328

**Supplementary table 3.** Comparison between the initial two reviewers in distinguishing type 2 MI (K: 0.54; overall agreement: 85.8%).

1st Reviewer	2nd Reviewer		
	MI type 2	Other	Total
MI type 2	158	87	245
Other	101	982	1083
Total	259	1069	1328

**Supplementary table 4.** Comparison between the initial two reviewers in distinguishing multifactorial myocardial injury (K: 0.48; overall agreement: 88.5%).

1st Reviewer	2nd Reviewer		
	Multifactorial	Other	Total
Multifactorial	91	68	159
Other	85	1084	1189
Total	176	1152	1328

**Supplementary table 5.** Stratified Kappa analysis of the variables associated with agreement or disagreement in figure 4.

Variable	n	% agreement	kappa (95% CI)	Variable	n	% agreement	Kappa (95% CI)
Active smoker	214	86.9	0.61 (0.49-0.73)	Non-smoker	1114	75.0	0.54 (0.49-0.58)
STEMI	398	89.9	0.29 (0.15-0.43)	No STEMI	930	71.4	0.53 (0.48-0.57)
Coronary angiography performed	771	86.5	0.53 (0.45-0.61)	Coronary angiography not performed	557	63.7	0.45 (0.39-0.51)
No dyspnea	1050	80.2	0.57 (0.52-0.62)	Dyspnea	278	64.7	0.44 (0.36-0.53)
Troponin > median (3.1227)	650	82.6	0.60 (0.54-0.67)	Troponin dynamics ≤ median (3.1227)	649	72.4	0.51 (0.45-0.56)
Systolic blood pressure ≤ median (145)	641	78.2	0.59 (0.54-0.65)	Systolic blood pressure > median (145)	620	76.1	0.50 (0.44-0.57)
CRP on admission ≤ median (5)	670	83.1	0.58 (0.50-0.64)	CRP on admission > median (5)	613	71.1	0.52 (0.46-0.57)
No history of stroke or TIA	1142	79.2	0.58 (0.54-0.62)	History of stroke or TIA	186	63.4	0.39 (0.28-0.49)

STEMI – ST-elevation myocardial infarction, CRP – C-reactive protein, TIA – transient ischemic attack.