

Supplementary file 3a Multivariable binary logistic regression models: first and final prediction model when patients with loss to follow up are all assumed to have no MACE

Variable	Odds Ratio (95 % CI)	p-value	Odds Ratio (95%CI)	p-value
Altered mental status	1.5 (0.7-3.3)	0.319		
Presence of atrial fibrillation/flutter	3.9 (1.9-8.1)	<0.001	3.9 (2.0-7.7)	<0.001
C-reactive protein (mg/L)	1.0 (1.0-1.0)	0.173		
Predisposition, Infection-score	1.1 (0.9-1.3)	0.338		
Response, Organ failure-score	1.1 (1.0-1.2)	0.061	1.1 (1.0-1.3)	0.004
Risk factors total >2	2.7 (1.3-5.8)	0.010	2.3 (1.1-4.5)	0.021
Temperature (°C)	0.9 (0.8-1.0)	0.032		

Abbreviations: Predisposition, Infection score; non-modifiable factors of the PIRO score; Response, Organ failure score, modifiable factors of the PIRO-score; Risk factors >2, more than two of the following risk factors: male gender, history of cardiovascular disease, history of diabetes mellitus, smoking (current or history), positive family history (at least one first degree relative with cardiovascular disease), use of antihypertensive and use of statins.

Hosmer and Lemeshow goodness of fit p=0.367, area under the curve (95% CI) 0.778 (0.704-0.851)

Supplementary file 3b. Multivariable binary logistic regression models: first and final prediction model when a random 2% of patients with loss to follow up are assumed to have had MACE

Variable	Odds Ratio (95 % CI)	p-value	Odds Ratio (95%CI)	p-value
Altered mental status	1.5 (0.7-3.2)	0.274		
Presence of atrial fibrillation/flutter	3.3 (1.6-6.6)	0.001	3.2 (1.7-6.1)	<0.001
C-reactive protein (mg/L)	1.0 (1.0-1.0)	0.059		
Predisposition, Infection-score	1.1 (0.9-1.2)	0.524		
Response, Organ failure-score	1.1 (1.0-1.2)	0.065	1.1 (1.0-1.2)	0.004
Risk factors total >2	2.3 (1.1-4.6)	0.097	1.9 (1.0-3.6)	0.049
Temperature (°C)	0.9 (0.8-1.0)	0.021		

Abbreviations: Predisposition, Infection score; non-modifiable factors of the PIRO score; Response, Organ failure score, modifiable factors of the PIRO-score; Risk factors >2, more than two of the following risk factors: male gender, history of cardiovascular disease, history of diabetes mellitus, smoking (current or history), positive family history (at least one first degree relative with cardiovascular disease), use of antihypertensive and use of statins.

Hosmer and Lemeshow goodness of fit p=0.936, area under the curve (95% CI) 0.736 (0.659-0.813)