

Table S1 OR and 95% CI of different variables

Variables	SCR (per 10 mmol/L)		Δ SCR (per 10 mmol/L)		eGFR		Δ eGFR	
	OR (95% CI)	P value	OR (95% CI)	P value	OR (95% CI)	P value	OR (95% CI)	P value
Crude	1.122 (1.076, 1.170)	<0.001	1.142 (1.087, 1.200)	<0.001	0.960 (0.944, 0.976)	<0.001	0.966 (0.952, 0.981)	<0.001
Included one covariate in a separate logistic regression model								
+Age	1.130 (1.081–1.180)	<0.001	1.147 (1.091–1.206)	<0.001	0.956 (0.939–0.973)	<0.001	0.966 (0.952–0.981)	<0.001
+Sex	1.124 (1.077–1.173)	<0.001	1.146 (1.089–1.206)	<0.001	0.958 (0.942–0.975)	<0.001	0.966 (0.952–0.981)	<0.001
+BMI	1.128 (1.080–1.178)	<0.001	1.144 (1.088–1.203)	<0.001	0.959 (0.943–0.976)	<0.001	0.966 (0.952–0.981)	<0.001
+NYHA functional classification	1.128 (1.080–1.178)	<0.001	1.148 (1.091–1.208)	<0.001	0.958 (0.942–0.975)	<0.001	0.965 (0.950–0.980)	<0.001
+Aortic surgery	1.123 (1.076–1.173)	<0.001	1.142 (1.086–1.200)	<0.001	0.959 (0.943–0.976)	<0.001	0.964 (0.950–0.979)	<0.001
+Euro score	1.120 (1.073–1.169)	<0.001	1.139 (1.084–1.198)	<0.001	0.961 (0.945–0.978)	<0.001	0.966 (0.952–0.981)	<0.001
+APACHE II	1.111 (1.061–1.164)	<0.001	1.128 (1.069–1.190)	<0.001	0.963 (0.944–0.982)	<0.001	0.971 (0.955–0.987)	0.001
+AST	1.121 (1.075–1.169)	<0.001	1.140 (1.085–1.198)	<0.001	0.961 (0.944–0.977)	<0.001	0.967 (0.952–0.982)	<0.001
+ALT	1.120 (1.074–1.168)	<0.001	1.139 (1.084–1.197)	<0.001	0.961 (0.945–0.977)	<0.001	0.967 (0.953–0.982)	<0.001
+Lactic acid	1.115 (1.067–1.166)	<0.001	1.126 (1.069–1.185)	<0.001	0.964 (0.947–0.982)	<0.001	0.974 (0.959–0.990)	0.001
+Infection	1.107 (1.060–1.157)	<0.001	1.125 (1.068–1.185)	<0.001	0.965 (0.949–0.982)	<0.001	0.972 (0.957–0.987)	<0.001
Included two covariates in a separate logistic regression model								
+Lactic acid + APACHE II	1.113 (1.059–1.169)	<0.001	1.118 (1.057–1.182)	<0.001	0.964 (0.945–0.985)	0.001	0.978 (0.961–0.995)	0.011
+APACHE II + infection	1.102 (1.051–1.156)	<0.001	1.116 (1.055–1.180)	<0.001	0.965 (0.946–0.984)	<0.001	0.974 (0.958–0.991)	0.002
+Lactic acid + infection	1.100 (1.049–1.153)	<0.001	1.107 (1.047–1.171)	<0.001	0.970 (0.952–0.988)	0.001	0.978 (0.962–0.993)	0.005

OR, odds ratio; CI, confidence interval; SCR, serum creatinine; eGFR, estimated glomerular filtration rate; APACHE II, Acute Physiology and Chronic Health Evaluation II; AST, aspartate aminotransferase; ALT, alanine aminotransferase.

Table S2 Relationship between creatinine and death by Poisson regression and logistic regression

Variables	Logistic regression		Poisson regression	
	OR (95% CI)	P value	IRR (95% CI)	P value
Creatinine, per 10 mmol/L	1.14 (1.07–1.25)	0.001	1.09 (1.06–1.11)	<0.001
ΔCreatinine, per 10 mmol/L	1.12 (1.04–1.21)	0.002	1.09 (1.07–1.11)	<0.001
GFR, mL/min	0.95 (0.93–0.98)	0.001	0.96 (0.95–0.98)	<0.001
ΔGFR, mL/min	0.97 (0.95–0.99)	0.005	0.97 (0.96–0.98)	<0.001

Adjusted for age, sex, BMI, NYHA functional classification, aortic surgery, Euro score, APACHE II, AST, ALT, lactic acid, and infection. OR, odds ratio; CI, confidence interval; IRR, incidence rate ratio; GFR, glomerular filtration rate; BMI, body mass index; NYHA, New York Heart Association; APACHE II, Acute Physiology and Chronic Health Evaluation II; AST, aspartate aminotransferase; ALT, alanine aminotransferase.