Supplementary Table S1. Multivariable analysis for overall death in conventional on pump coronary artery bypass grafting group

Variables	**Hazard ratio (95% CI)**	***P*-value**
eGFR (ml/min)		
eGFR ≥90	Reference	
eGFR <90 and ≥60	1.40(0.91-2.16)	0.121
eGFR <60 and ≥30	1.78(1.10-2.86)	0.018
eGFR <30	5.04(2.70-9.41)	<.0001
Congestive heart failure	1.65(1.23-2.22)	0.001
Malignancy history	1.78(1.26-2.51)	0.001
Atrial fibrillation	1.41(0.95-2.11)	0.091
Peripheral artery disease	1.70(1.24-2.33)	0.001
Emergency admission	1.36(1.01-1.84)	0.045
ECMO use	11.61(8.13-16.58)	<.0001
Surgery at high volume center	0.62(0.45-0.87)	0.005
RBC transfusion		
Number of RBC, 0	Reference	
Number of RBC, 1	1.72(0.55-5.46)	0.354
Number of RBC, 2 ≤	2.96(0.97-9.06)	0.057

* eGFR, estimated glomerular filtration rate; BMI, body mass index; ECMO, extracorporeal membrane oxygenation; RBC, red blood cell; OPCAB, off pump coronary artery bypass grafting; Surgery at high-volume centers (defined as centers performing more than 50% of surgery cases)

Supplementary Table S2. Multivariable analysis for overall death in off pump coronary artery bypass grafting

Variables	Hazard ratio (95% CI)	*P*-value
Age (years)		
20-40	Reference	
40~60	0.79(0.33-1.89)	<.0001
60~80	1.52(0.66-3.50)	<.0001
80≤	2.82(1.17-6.80)	<.0001
Female sex	0.69(0.50-0.95)	0.024
eGFR (ml/min)		
eGFR ≥90	Reference	
eGFR <60 and ≥30	1.71(1.17-2.49)	0.006
eGFR <30	2.80(1.69-4.63)	<.0001
Anemia	1.21(0.76-1.92)	0.429
BMI (kg/m²)		
< 18.5	Reference	
30 <	0.31(0.09-1.07)	0.064
Congestive heart failure	1.56(1.20-2.03)	0.001
Ischemic stroke	1.53(1.16-2.02)	0.003
Malignancy history	1.42(1.02-1.98)	0.037
Atrial fibrillation	1.78(1.22-2.58)	0.003
Peripheral artery disease	1.27(0.96-1.68)	0.092
Anti-platelet agent medication	0.80(0.58-1.10)	0.172
ECMO use	9.79(5.69-16.85)	<.0001
Surgery at high volume center	0.68(0.53-0.88)	0.003
RBC transfusion		
Number of RBC, 0	Reference	
Number of RBC, 1	1.34(0.90-2.00)	0.152
Number of RBC, 2 ≤	2.28(1.55-3.37)	<.0001

* eGFR, estimated glomerular filtration rate; BMI, body mass index; ECMO, extracorporeal membrane oxygenation; RBC, red blood cell; OPCAB, off pump coronary artery bypass grafting; Surgery at high-volume centers (defined as centers performing more than 50% of surgery cases)