

Supplementary materials

Table S1: Multivariate adjusted Cox regression analysis of long-term risk of mortality

Variables	Adjusted model	
	HR(95%CI)	<i>p</i> value
Age (per 1-year increment)	1.02(0.99- 1.04)	0.195
Atrial fibrillation (Yes: No)	2.06(1.10-3.84)	0.024
Cardiac function (NYHA class 3-4: 1-2)	2.20(1.23-3.93)	0.008
CABG (Yes: No)	0.44(0.24-0.82)	0.009
Operation hour (per 1-hour increment)	1.18(1.06-1.32)	0.002
Respiratory failure after surgery (Yes: No)	8.25(3.56-19.11)	<0.001
Duration of mechanical ventilation (per 1-day increment)	1.15(1.09-1.22)	<0.001
CSA-AKI (Yes: No)	2.00(1.12-3.58)	0.019

CABG: coronary artery bypass grafting; CSA-AKI: cardiac surgery associated-acute kidney injury; eGFR: estimated glomerular filtration rate. Adjustment factors included sex, hypertension, diabetes, serum albumin before operation and eGFR before operation.

Table S2: Multivariate adjusted Cox regression analysis of long-term risk of CKD 3-5

Variables	Adjusted model	
	HR(95%CI)	<i>p</i> value
Age (per 1-year increment)	1.03(1.00- 1.06)	0.041
Baseline eGFR (per 1 ml/min/1.73m ² increment)	0.98(0.96-0.99)	0.002
CSA-AKI (Yes: No)	3.05(1.73-5.36)	<0.001

CABG: coronary artery bypass grafting; CSA-AKI: cardiac surgery associated-acute kidney injury; eGFR: estimated glomerular filtration rate. Adjustment factors included sex, hypertension, diabetes, atrial fibrillation, serum albumin before operation, cardiac function before operation and types of operation (CABG: non-CABG).

Table S3: CSA-AKI Patients with completely renal recovery.

	Total (n=403)	No CKD (n=378)	3-5 Incident CKD (n=25)	P value
Baseline Characteristics				
Male, n(%)	239(59.3)	226(59.8)	13(52.0)	0.444
Age (years)	55.3±12.1	55.0±12.0	60.6±12.5	0.032
BMI (kg/m ²)	23.8±3.7	23.8±3.7	24.3±3.5	0.613
Hypertension, n(%)	154(38.2)	141(37.3)	13(52.0)	0.144
Diabetes, n(%)	50(12.4)	48(12.7)	2(8.0)	0.492
COPD, n(%)	10(2.4)	8(2.1)	2(8.0)	0.068
Atrial fibrillation, n(%)	109(27.0)	99(26.2)	10(40.0)	0.133
eGFR (ml•min ⁻¹ •1.73m ⁻²)	103.3±29.4	104.6±29.7	84.6±16.9	<0.001
Ejection fraction, n(%)	61.0±7.5	61.2±7.4	58.1±9.1	0.084
CPB time (min)	117±75	117±75	114±68	0.793
Operation types (%)				0.600
CABG	65(16.1)	59(15.6)	6(24.0)	
Valve operation	233(57.8)	219(57.9)	14(56.0)	
Combined operation	19(4.7)	17(4.5)	2(8.0)	
Aortic operation	33(8.2)	32(8.5)	1(4.0)	
Other operation	53(13.2)	51(13.5)	2(8.0)	

Table S4: Multivariate adjusted Cox regression analysis of long-term risk of CKD 3-5 in patients with completely renal recovery

Variables	Adjusted model	
	HR(95%CI)	p value
Baseline eGFR (per 1 ml/min/1.73m ² increment)	0.95(0.92-0.98)	0.001
LVEF (per 1% increment)	0.93(0.89-0.98)	0.009

CABG: coronary artery bypass grafting; CSA-AKI: cardiac surgery associated-acute kidney injury; eGFR: estimated glomerular filtration rate; LVEF: left ventricular ejection fraction. Adjustment factors included age, sex, hypertension, diabetes, atrial fibrillation, serum albumin before operation, cardiac function before operation and types of operation (CABG: non-CABG).