

**Table S1.** Auxiliary variables retained in the adjusted models.

Outcome	IGFBP7	NT-proBNP	PAPi
c-AKI	Mitral or tricuspid surgery	Mitral or tricuspid surgery	Preoperative LVEF
	Preoperative LVEF	Preoperative LVEF	
		Post-induction CVP	
AKI	Mitral or tricuspid surgery	Mitral or tricuspid surgery	Diabetes
	Diabetes	Diabetes	
		Post-induction CVP	
RVF	Diabetes	Diabetes	Baseline creatinine
		Preoperative RV dysfunction	
		Baseline creatinine	

Abbreviations: IGFBP7 = insulin like growth factor binding protein 7, NT-proBNP = N-terminal pro hormone B-type natriuretic peptide, PAPi = pulmonary artery pulsatility index, c-AKI = congestive acute kidney injury, AKI = acute kidney injury, RVF = right ventricular failure, CVP = central venous pressure, RV = right ventricle, LVEF = left ventricular ejection fraction