

Supplemental Material

Table S1. KDIGO definition of AKI and AKI severity according to serum creatinine and urine output.

Stage	Serum Creatinine	Urine output
1	1.5-1.9 times baseline Or ≥26.5 μmol/l increase	<0.5 ml/kg/h for 6-12 h
2	2-2.9 times baseline	<0.5 ml/kg/h for ≥ 12 hr
3	3 times baseline Or Increase serum creatinine more than 353.6 μmol/l Or Initiation of renal replacement therapy Or Decrease in eGFR <35 ml/min per 1.73 m ²	<0.3 ml/kg/hr for ≥ 24 hr Or Anuria for ≥ 12 hr

Table S2. Distribution of double outlet right ventricle (DORV) and total anomalous pulmonary venous return (TAPVR) patients along with the use of pre-operative diuretics.

Diagnosis	Pre-operative diuretic use	No pre-operative Diuretic use
DORV		
Subaortic VSD/TOF	1	7
Subaortic VSD/Unobstructed	7	3
Subaortic VSD/PA	0	2
Non-committed VSD	0	1
Doubly committed VSD	0	0
Sub-pulmonary VSD	0	0
TAPVR		
Supracardiac	0	5
Cardiac	3	2
Infracardiac	0	0
Mixed	1	1

Subaortic VSD/TOF, Tetralogy type double outlet right ventricle; Subaortic VSD/Unobstructed, ventricular septal defect type double outlet right ventricle; Subaortic VSD/PA, tetralogy type double outlet right ventricle with pulmonary atresia; VSD, ventricular septal defect

Table S3. Distribution of AKI severity relative to the KDIGO criteria that was met to diagnose AKI.

CS-AKI severity	n	Oliguria	SCr	Oliguria/SCr
All	149	17	122	10
Stage 1	80	15	57	8
Stage 2	57	2	53	2
Stage 3	12	0	12	0

CS-AKI, cardiac surgery associated acute kidney injury; SCR, serum creatinine.

Table S4. Mean age at surgery for each diagnosis.

Diagnosis	Mean age at surgery m, (Stdev)
TOF	6.9 (2.0)
AVSD	5.9 (2.1)
VSD	5.5 (1.9)
DORV	7.2 (2.6)
TOF/MAPCAs	5.7 (2.6)
TAPVR	3.4 (1.5)
TOF/AVSD	11.4 (0.4)
Other	6.3 (3.9)

AVSD, atrioventricular septal defect; DORV, double outlet right ventricle; TOF, tetralogy of Fallot; TAPVR, total anomalous pulmonary venous return; TOF/AVSD, tetralogy of Fallot with atrioventricular septal defect; TOF/MAPCAs, tetralogy of Fallot with pulmonary atresia and multiple aortopulmonary collaterals; VSD, ventricular septal defect.