

Table 1 The baseline characteristics

Characteristics	SAS ( n=65,% )	Simple (n=37,51.5%)	Complex (n=28,48.5%)	p-Value
Males	36(55.4%)	19(51.4%)	17(60.7%)	0.197
Age(years)	6(3-11.8)	6.5(3.4-12.1)	5(2.5-11.6)	0.503
Weight(Kg)	21(13.4-37.2)	21.3(13.8-35.7)	17(11.9-54.3)	0.629
Height(cm)	127.4±27.6	122.1±28.5	134.3±25.1	0.078
BSA	0.84(0.62-1.29)	0.84(0.6-1.22)	0.85(0.63-1.47)	0.701
Symptom	10(15.4%)	7(18.9%)	3(10.7%)	
Congenital anomaly (n, %)				
Second operation	27(41.5%)	18(48.6%)	9(32.1%)	0.139
Combined malformation	47(72.3%)	23 (62.2%)	24(85.7%)	0.032
Aortic Valve Morphology				
Tri-leaflet	61(93.8%)	36(97.3%)	25(89.3%)	0.209
Aortic regurgitation	34(51.5%)	24(65.7%)	10(35.5%)	0.018
Mild regurgitation	23(35.4%)	20(54.1%)	13(46.4%)	0.000
Moderate regurgitation	11(16.9%)	4(10.8%)	7(25%)	0.120
Surgery parameters				
CPB-time(min)	89.5(63.3-117)	70(61.5-96.5)	114(80-139)	0.004
ACC-time (min)	47(36-65.8)	43(33-53)	58(46-89)	0.007
Mechanical ventilation time (hour)	11.5(6-20.6)	10(5-16.8)	14.5(7-45.3)	0.035
ICU-stay(days)	2(1-3)	2(1-2)	2(2-4.5)	0.003
Echocardiographic parameters				
Preoperative LVOT gradient(mmHg)	80.1±28.4	70±24.5	86.7±32.1	0.104
Postoperative LVOT gradient (mmHg)	11.3(5.3-21.7)	8.8(4.6-15.3)	18.3(7.5-28.5)	0.022
Follow-up LVOT gradient (mmHg)	10.8(4.8-27.9)	9.9(4.3-21.5)	14.9(7.2-35.4)	0.179

ACC time, aortic cross clamp time; BSA, body surface area; cm, centimeters; CPB time, extracorporeal circulation time; LVOT, left ventricular outflow tract