

Supplementary Table. Preoperative evaluation in patients with each disease entity

	PR, n=96	RVOTS, n=37	VSD or ASD, n=11	AR, n=12	Aortic dilatation, n=16	TR, n=28
QRS duration, msec	151.2±62.9	134.7±58.7	130±71.7	114.6±76.1	125.5±67.6	148.6±60.8
NYHA_class	1.8±0.6	1.7±0.7	2.0±0	1.8±0.4	1.7±0.5	1.9±0.5
Ventricular arrhythmia by EPS induction, n(%)	5(5.2)	1(2.7)	0(0)	1(8.3)	2(12.5)	0(0)
CTR, %	56.2±14.7	48.7±22.8	56.2±20	54.4±18.1	54.8±16.3	56.6±18.8
<i>Preoperative evaluation</i>						
Holter ECG, n(%)	53(55.2)	16(43.2)	6(54.5)	7(58.3)	8(50)	17(60.7)
MRI, n(%)	56(58.3)	11(29.7)	2(18.2)	3(25)	4(25)	18(64.3)
EPS, n(%)	28(29.2)	6(16.2)	1(9.1)	3(25)	4(25)	5(17.9)
Echocardiography, n(%)	95(99)	30(81.1)	9(81.8)	12(100)	16(100)	27(96.4)
Catheterization, n(%)	87(90.6)	35(94.6)	9(81.8)	12(100)	15(93.8)	24(85.7)
<i>Magnetic resonance imaging</i>						
LVEF, %	48.6±9.4	50±11.2	40.8±1.1	46.1±15.1	45.4±10.7	47.5±8
LVEDVI, mL/m <sup>2</sup>	84.2±27	76.7±14.7	103.3±40.7	140.3±84.4	122.6±67.1	90.7±24.3
LVESVI, mL/m <sup>2</sup>	46.4±20.6	38.3±10.6	61±22.7	82±66.5	70.9±50.8	52.1±17.3
RVEF, %	42±12.5	38.7±13.8	43.5±10.6	42.4±12.5	38.6±12.8	42.2±10.7
RVEDVI, mL/m <sup>2</sup>	177.5±72.4	141.9±36.6	237.5±111.1	194.5±44.7	196.4±36.6	184.5±105.1
RVESVI, mL/m <sup>2</sup>	108.9±49.7	89.4±34.3	139.3±88.7	111±32.1	120.2±32	113.6±57.1
<i>Cardiac catheterization</i>						
<i>Volume analysis</i>						
LVEF, %	57.9±8.3	58.4±9	56.1±7.6	58.9±7.2	58.6±6.9	58.6±7.1
LVEDVI, mL/m <sup>2</sup>	116.6±38.6	122.2±44.3	125.6±33.5	198.9±88.7	182.8±89	114.8±35
LVDSVI, mL/m <sup>2</sup>	50.4±23.3	48.5±27.4	61.1±19.5	78.8±28.5	73.5±31	45.1±17.9
RVEF, %	45.1±11.2	46.4±11.2	43.7±9.6	47.3±8.6	47.4±6.8	46.3±12.1
RVEDVI, mL/m <sup>2</sup>	183±59.3	145.2±72.3	107.9±32	138.4±54	148.9±47.7	192.1±71.1
RVDSVI, mL/m <sup>2</sup>	101.3±47.8	78.8±33.6	54±14.7	71.3±35.3	77.4±31.2	109.2±64.6
<i>Pressure analysis</i>						
PVR, WU	2.2±1.5	2.4±1.2	2.4±2.3	1.3±0.2	1.4±0.3	2.5±1.6
Qp/Qs	1.1±0.3	1.2±0.4	1.8±0.6	1.1±0.2	1.1±0.2	1.2±0.4
CI, L/min/m <sup>2</sup>	3±0.8	3±0.9	3±1.5	2.7±0.4	2.8±0.5	2.7±0.7
Mean right atrial pressure, mmHg	8.8±5.4	9.1±3.3	10.6±3.6	7.5±5.1	7.1±4.6	10.9±7.6
Right ventricular systolic pressure, mmHg	44.2±16.7	85.1±23.4	66.5±43.2	45.9±21.9	43.5±20.2	43.8±17
Right ventricular diastolic pressure, mmHg	4.7±10.3	7.5±8.3	10.6±3.6	2±10.5	2.8±9.6	5.4±12.7
Systolic pulmonary artery pressure, mmHg	35.4±14.6	40.5±24.1	46.4±32.6	27.9±10.6	27.7±9.7	41.2±22.5
Diastolic pulmonary artery pressure, mmHg	7.2±3.9	9.2±3.9	13.6±12.3	9.3±4.5	8.6±4.3	8.7±2.9
Trans right ventricular outflow tract gradient, mmHg	10.2±15.3	46.3±30.8	67.5±78.5	17.6±18.6	16.3±16.9	6.4±9.8
Mean pulmonary artery pressure, mmHg	21±10.8	23.4±13	25.4±15.8	23.6±15.1	21.4±13.2	21±9.7
Pulmonary capillary wedge pressure, mmHg	11±5.2	11±3.1	11.3±3.2	11.9±6.3	11.3±5.9	12.4±7
Left ventricular end diastolic pressure, mmHg	12.6±5	12.1±3.6	11.9±2.9	13.4±5.4	13.2±4.9	13.5±6.2
Systolic aortic pressure, mmHg	119.4±23.2	120±10.3	115.1±19.9	130.3±31.4	128.1±28.1	124±21.7
Diastolic aortic pressure, mmHg	68.5±12.1	70.9±8.5	70.1±7.2	54.8±9.6	60.3±14.5	72.7±11.5
Mean aortic pressure, mmHg	86±13.3	88±7.8	88±12.8	76.3±13.4	82.3±16.1	90.1±12.6

Right ventricular systolic pressure/Systolic aortic pressure ratio	0.4±0.1	0.7±0.2	0.6±0.3	0.4±0.2	0.3±0.2	0.4±0.1
<i>CPX</i>						
PeakVO <sub>2</sub> , mL/min/kg	21.7±6.8	22.5±9.5	Not available	19.4±4.6	19.4±4.6	17±7.6
<i>Laboratory test results</i>						
BNP, pg/mL	81.3±100.1	135.9±165.1	159.7±122.4	121.9±111.2	95.2±100.6	96.8±93.1
<i>Echocardiography</i>						
LVEF, %	53.2±13.8	64.9±12.7	56.9±11	52.4±13.1	54.8±13	55.5±9.5
LVDd, mm	45.3±7.3	42.6±5.2	46.1±8	57.1±6.5	53.5±8.4	45±5.8
LVDs, mm	32.3±7.3	29.1±6.5	31.8±6.4	41.1±6.3	37±8.3	31.6±7.3
TRPG, mmHg	35.5±12.9	61.5±18.5	48±17.8	33.7±13.4	37.3±16.4	30.8±9.8
Trans pulmonary valve peak velocity, m/s	2.1±0.7	3.5±0.8	3.4±1.2	1.7±0.5	2±0.9	1.8±0.6
<i>Computed tomography measurements of aortic diameter, mm</i>						
Aortic valve	25.8±4	24.6±3.5	25.6±5.2	28±7.1	26.5±4.8	26.1±5.5
Valsalva	38.4±7.9	35.8±5.8	34.9±7.5	51±13.7	45.8±14.7	37.7±5.8
Sinotubular junction	31.3±5.3	30.4±4.8	29.4±5.5	37.5±7.8	34.4±8	32±5.5
Ascending aorta	32.8±7	28.5±3.3	29.5±5.6	44.5±9	38.8±11.5	33±5.8

PR, pulmonary regurgitation; RVOTS, right ventricular outflow tract stenosis; ASD, atrial septal defect; VSD, ventricular septal defect; AR, aortic regurgitation; TR, tricuspid regurgitation; NYHA, New York Heart Association class; EPS, Electrophysiological Study; CTR, Cardiothoracic Ratio; MRI, Magnetic Resonance Imaging; LVEF, Left Ventricular Ejection Fraction; LVEDVI, Left Ventricular End-Diastolic Volume Index; LVESVI, Left Ventricular End-Systolic Volume Index; RVEF, Right Ventricular Ejection Fraction; RVEDVI, Right Ventricular End-Diastolic Volume Index; RVESVI, Right Ventricular End-Systolic Volume Index; PVR, Pulmonary Vascular Resistance; Qp/Qs, Pulmonary/Systemic Flow Ratio; CI, Cardiac Index; CPX, Cardiopulmonary Exercise Testing; BNP, B-Type Natriuretic Peptide; LVDd, Left Ventricular Diastolic diameter; LVDs, Left Ventricular Systolic diameter; TRPG, Tricuspid Regurgitant Pressure Gradient.