

**Table S1** Changes in echocardiographic data at preoperative period, early postoperative period and last follow-up (57.8±53.3 months)

Variables	BMVR group (n=241)			PMVR group (n=68)		
	Preoperative period	Early postoperative	Last follow-up	Preoperative period	Early postoperative	Last follow-up
LVEDD (mm)	34.6±7.7	33.0±7.4	31.6±7.5	36.5±9.7	33.9±7.6	32.7±7.9
LVEDD (mm)	53.5±8.5	48.3±6.7	47.9±7.3	54.2±9.3	48.3±7.8	49.0±8.7
LVEF (%)	58.1±9.2	52.6±10.9	55.0±11.1	53.8±11.1	48.1±11.9	52.9±12.3
LA dimension (mm)	59.2±13.3	50.3±10.0	52.4±11.7	56.9±11.5	52.6±11.7	54.7±12.6
PASP (mmHg)	51.0±16.4	39.8±10.8	44.1±15.9	50.8±18.8	37.5±11.8	46.2±17.4
MVMPG (mmHg)	–	4.1±1.7	5.3±3.4	–	4.7±1.6	5.9±2.9

EDD, end-diastolic dimension; EF, ejection fraction; ESD, end-systolic dimension; LA, left atrium; LV, left ventricle; MVMPG, mitral valve mean pressure gradient; PASP, pulmonary artery systolic pressure.

**Table S2** Early clinical outcomes

Variables	BMVR group (n=241)	PMVR group (n=68)	P-Value
Early mortality, n (%)	14 (5.8)	6 (8.8)	0.40
Complications, n (%)			
Low cardiac output syndrome	30 (12.4)	13 (19.1)	0.16
Respiratory complication	35 (14.5)	9 (13.2)	0.79
Acute kidney injury	28 (11.6)	6 (8.8)	0.52
Reoperation due to bleeding	14 (5.8)	9 (13.2)	0.040
Stroke	16 (6.6)	3 (4.4)	0.78
Mediastinitis	3 (1.2)	2 (2.9)	0.30