

*Table 1: Preoperative characteristics*

<i>Age, (year)</i>	50 (37-63)
<i>Male, n (%)</i>	3 (60%)
<i>Body surface area (m2)</i>	1.64 (1.61-1.77)
<i>Atrial fibrillation, n (%)</i>	0 (0%)
<i>Hemodialysis, n (%)</i>	0 (0%)
<i>Hypertension, n (%)</i>	0 (0%)
<i>Diabetes mellitus, n (%)</i>	0 (0%)
<i>Dyslipidemia, n (%)</i>	0 (0%)
<i>Coronary artery disease, n (%)</i>	0 (0%)
<i>Cerebrovascular disease, n (%)</i>	0 (0%)
<i>Miocardial infarction, n (%)</i>	0 (0%)
<i>History of cardiac surgery, n (%)</i>	0 (0%)
<i>NYHA Class</i>	
<i>I/II</i>	0 (0%)
<i>III</i>	5 (100%)
<i>IV</i>	0 (0%)
<i>Echocardiographic parameters</i>	
<i>LVDd (mm)</i>	53 (47-57)
<i>LVDs (mm)</i>	31 (29-37)
<i>Ejection fraction (%)</i>	70 (65-75)
<i>LAD (mm)</i>	36 (31-40)
<i>MR grade</i>	
<i>moderate</i>	1 (20%)
<i>severe</i>	4 (80%)
<i>AR <math>\geq</math> moderate</i>	0 (0%)
<i>TR <math>\geq</math> moderate</i>	0 (0%)

*NYHA: New York Heart Association functional classification, LVDd: left ventricular end-diastolic dimension, LVDs: left ventricular end-systolic dimension, LAD: left atrial diameter;*

*MR: mitral valve regurgitation, AR: aortic valve regurgitation, TR: tricuspid valve regurgitation*

*Table 2: Operative characteristics of each patients*

	<i>Age Sex</i>	<i>Infective site (Bacterial species)</i>	<i>Operative procedures</i>
<i>Patient 1</i>	37 <i>M</i>	<i>A2+P2 (MRCNS)</i>	<i>A2 reconstruction with FAP + 2 pairs of AC + P2 quadrangular resection and suture + MAP (26mm-PhysioII ring)</i>
<i>Patient 2</i>	54 <i>F</i>	<i>P3 (viridans streptococcus)</i>	<i>P3 reconstruction with FAP + MAP (28mm-PhysioII ring)</i>
<i>Patient 3</i>	63 <i>M</i>	<i>A3+P2-3 (viridans streptococcus)</i>	<i>A3+P2-3 reconstruction with FAP + 4 pairs of AC + MAP (26mm-PhysioII ring)</i>
<i>Patient 4</i>	39 <i>M</i>	<i>P2-3 (viridans streptococcus)</i>	<i>P2-3 reconstruction with FAP + 1 pairs of AC + MAP (32mm-PhysioII ring)</i>
<i>Patient 5</i>	57 <i>F</i>	<i>A1-2+AC+P1-2 (MSSA)</i>	<i>A1-2+P1-2 reconstruction with FAP + 4 pairs of AC + MAP (28mm-Mamo 3D)</i>

*M: male, F: female, FAP: fresh autologous pericardium, AC: artificial chordae, MAP: mitral annuloplasty, MRCNS: methicillin-resistant coagulase-negative staphylococci, MSSA: methicillin-susceptible staphylococcus aureus*

*Table 3: Early result and pre-discharge echocardiographic data*

<i>Operative time (min)</i>	<i>281 (234-364)</i>
<i>CPB time (min)</i>	<i>167 (121-216)</i>

<i>Cross clamp time (min)</i>	141 (95-183)
<i>Concomitant surgery</i>	
<i>PFO closure</i>	1 (20%)
<i>TAP, n (%)</i>	0 (0%)
<i>Maze, n (%)</i>	0 (0%)
<i>LAA closure, n (%)</i>	0 (0%)
<i>Second pump, n (%)</i>	0 (0%)
<i>Hospital stay (days)</i>	35 (23-43)
<i>Hospital mortality, n (%)</i>	0 (0%)
<i>Complications, n (%)</i>	0 (0%)
<i>Stroke, n (%)</i>	0 (0%)
<i>Heart failure, n (%)</i>	0 (0%)
<i>Atrial fibrillation, n (%)</i>	0 (0%)
<i>Infection, n (%)</i>	0 (0%)
<i>Bleeding, n (%)</i>	0 (0%)
<i>Embolic event, n (%)</i>	0 (0%)
<i>Renal failure, n (%)</i>	0 (0%)
<i>tracheostomy, n (%)</i>	0 (0%)
<i>Echocardiographic parameters</i>	
<i>Pre-discharge TTE</i>	
<i>LVDd (mm)</i>	45 (43-47)
<i>LVDs (mm)</i>	30 (28-34)
<i>Ejection fraction (%)</i>	62 (50-68)
<i>LAD (mm)</i>	34 (31-40)
<i>MR</i>	
<i>none, n (%)</i>	2 (40%)
<i>trivial n (%)</i>	3 (60%)
<i>≥ moderate n (%)</i>	0 (0%)
<i>MV PHT</i>	86 (64-98)
<i>MV mPG</i>	3.8 (2-6)

<i>TR</i> $\geq$ moderate	0 (0%)
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*CPB*: cardiopulmonary bypass, *PFO*: patent foramen ovale, *TAP*: tricuspid annuloplasty, *LAA*: left atrial appendage, *TTE*: transthoracic echocardiography, *PHT*: pressure half time, *LVDd*: left ventricular end-diastolic dimension, *LVDs*: left ventricular end-systolic dimension, *LAD*: left atrial diameter, *MR*: mitral valve regurgitation, *MV*: mitral valve, *mPG*: mean pressure gradient, *TR*: tricuspid valve regurgitation

*Table 4: Latest echocardiographic data of non-recurrent patients*

<i>LVDd</i> (mm)	45 (39-49)
<i>LVDs</i> (mm)	27 (29-31)
<i>Ejection fraction (%)</i>	69 (62-75)
<i>LAD</i> (mm)	34 (22-38)
<i>MR</i>	
<i>none, n (%)</i>	0 (0%)
<i>trivial n (%)</i>	2 (40%)
<i>mild n (%)</i>	2 (40%)
<i>MV mPG</i>	3.45 (2-5)
<i>TR</i> $\geq$ moderate	0 (0%)

*LVDd*: left ventricular end-diastolic dimension, *LVDs*: left ventricular end-systolic dimension, *LAD*: left atrial diameter, *MR*: mitral valve regurgitation, *MV*: mitral valve, *mPG*: mean pressure gradient, *TR*: tricuspid valve regurgitation