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| Supplementary Table 1. Variables reaching to successful biventricular repair  |  |   |
|   |   |   | Univariate |   | multivariable |
| Variables | p-value | OR  | 95% CI | p-value | OR  | 95% CI |
| (Linear regression model) |   |   |   |   |   |   |
| Era | **0.031** | 3.429 | 1.123-10.470 | 0.160 | 3.315 | 0.636-15.44 |
| Rehabilitation | 0.239 | 2.455 | 0.55-10.955 |  |  |  |
| Male sex | 0.245 | 0.523 | 0.175-1.560 |  |  |  |
| Premature | 0.446 | 0.500 | 0.084-2.972 |  |  |  |
| Genetic anormaly | 0.392 | 1.957 | 0.421-9.086 |  |  |  |
| Cardiac diagnosis |  |  |  |  |  |  |
|  Single obstruct lesion | 0.314 | 0.545 | 0.168-1.774 |  |  |  |
|  Multiple obstruct lesions | 0.184 | 0.435 | 0.127-1.487 |  |  |  |
|  Restrictive fossa ovalis | 0.354 | 0.333 | 0.033-3.410 |  |  |  |
|  Endocardial fibroelastosis |  |  |  |  |  |  |
| First TEE data |  |  |  |  |  |  |
|  IVS | **0.014** | 0.543 | 0.334-0.882 | **0.043** | 0.568 | 0.328-0.982 |
|  LVIDd | 0.196 | 1.164 | 0.925-1.465 |  |  |  |
|  LVIDs | 0.043 | 0.612 | 0.381-0.985 |  |  |  |
|  LVEDVI | 0.107 | 1.066 | 0.986-1.152 |  |  |  |
|  LVESVI | 0.679 | 0.971 | 0.843-1.118 |  |  |  |
|  LVEF | 0.237 | 1.017 | 0.989-1.047 |  |  |  |
|  Aortic valve diameter | 0.293 | 1.356 | 0.768-2.394 |  |  |  |
|  Mitral valve diameter | 0.656 | 1.070 | 0.795-1.439 |  |  |  |
|  aAo diameter | 0.066 | 0.562 | 0.304-1.040 |  |  |  |
|  LVa/RVa | **0.005** | 1.073 | 1.022-1.126 | **0.017** | 1.062 | 1.011-1.116 |

CI: confidence interval, IVS: interventricular septum, LVa/RVa: left ventricular to right ventricle apex ratio, LVDd: left ventricle end-diastolic diameter, LVDs: left ventricle end-systolic diameter, LVEDVI: left ventricular end-diastolic volume index, LVEF: left ventricle ejection fraction, LVESVI: left ventricular end-systolic volume index, OR: odds ratio, TTE: transthoracic echocardiogram

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| Supplementary Table2. Changes after LV rehabilitation |  |  |  |  |
|   | Patients | LVEDVI |   | LVESVI |   | AoV Z score |   |
|   |   | Pre rehabilitation | Pre BVR/BCPS | Pre rehabilitation | Pre BVR/BCPS | Pre rehabilitation | Pre BVR/BCPS |
|  | 1 | 6,6 | 39,8 | 0,9 | 8,3 | 6,75 | 7,11 |
|  | 2 | 21,4 | 40,0 | 8,1 | 16,7 | -1,22 | -0,37 |
|  | 3 | 8,6 | 27,3 | 0,4 | 4,5 | -2,15 | -1,43 |
|  | 4 | 18,1 | 3,5 | 11,6 | 2,9 | -1,64 | -0,47 |
|  | 5 | 11,6 | 35,2 | 1,2 | 3,6 | -4,61 | -1,87 |
|  | 6 | 9,8 | 24,2 | 1,4 | 2,0 | -4,34 | -3,43 |
|  | 7 | 3,7 | 49,6 | 0,1 | 7,5 | -2,78 | -2,05 |
|  | 8 | 5,6 | 34,4 | 0,8 | 12,7 | -0,99 | 1,17 |
|   | 9 | 9,7 | 17,3 | 7,0 | 1,3 | -5,78 | -3,28 |

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| MV Z score |   | IVS Z score |   | LVa/RVa |   |
| Pre rehabilitation | Pre BVR/BCPS | Pre rehabilitation | Pre BVR/BCPS | Pre rehabilitation | Pre BVR/BCPS |
| -1,32 | 1,11 | 3,23 | 4,27 | 96 | 102 |
| 0,77 | 1,93 | 5,26 | 8,78 | 84 | 114 |
| -1,57 | 0,52 | 4,39 | 4,03 | 76 | 119 |
| -2,55 | 2,72 | 9,69 | 8,06 | 76 | 73 |
| -3,50 | 1,73 | 2,69 | 1,79 | 71 | 109 |
| -2,20 | -1,95 | 4,12 | 2,51 | 74 | 100 |
| -2,20 | -1,33 | 6,30 | 3,10 | 96 | 114 |
| -6,07 | -2,66 | 2,96 | 1,43 | 84 | 123 |
| 0,03 | 1,93 | 6,39 | 5,42 | 89 | 103 |

AoV: aortic valve IVS: interventricular septum, LVa/RVa: left ventricular to right ventricle apex ratio, LVDd: left ventricle end-diastolic diameter, LVEDVI: left ventricular end-diastolic volume index, LVESVI: left ventricular end-systolic volume index, MV: mitralvalve