

TableS2. Clinical characteristics of 1-18 year old NCM patients with simple MR and simple TR

|                               | Overall<br>(n=89)       | Normal valvular<br>(n=45) | MR<br>(n=22)            | TR<br>(n=22)             | <i>p</i>     |                 |                 |              |
|-------------------------------|-------------------------|---------------------------|-------------------------|--------------------------|--------------|-----------------|-----------------|--------------|
|                               |                         |                           |                         |                          | Total        | Normal valvular | Normal valvular | MR           |
|                               |                         |                           |                         |                          |              | vs<br>MR        | vs<br>TR        | vs<br>TR     |
| NCM location, n (%)           |                         |                           |                         |                          | 0.019        |                 |                 |              |
| LVNC                          | 65 (73.0)               | 37 (82.2)                 | 16 (72.7)               | 12 (54.5)                |              |                 |                 |              |
| RVNC                          | 7 (7.9)                 | 2 (4.4)                   | 0 (0.0)                 | 5 (22.7)                 |              |                 |                 |              |
| BVNC                          | 17 (19.1)               | 6 (13.3)                  | 6 (27.3)                | 5 (22.7)                 |              |                 |                 |              |
| <i>Electrocardiograph</i>     |                         |                           |                         |                          |              |                 |                 |              |
| Arrhythmia, n (%)             | 15 (16.9)               | 10 (22.2)                 | 1 (4.5)                 | 4 (18.2)                 | 0.189        |                 |                 |              |
| QRS duration, (mm)            | 84.00 [70.00, 98.00]    | 80.00 [70.00, 89.00]      | 75.00 [66.00, 92.00]    | 96.00 [85.00, 106.00]    | <b>0.009</b> | 0.531           | <b>0.008</b>    | 0.053        |
| PR duration, (mm)             | 126.00 [110.00, 150.00] | 122.00 [108.00, 140.00]   | 130.00 [116.00, 147.75] | 135.50 [118.00, 151.50]  | 0.191        |                 |                 |              |
| QRS axis, (mm)                | 71.00 [16.00, 88.00]    | 67.00 [15.00, 86.00]      | 70.50 [21.00, 77.25]    | 82.00 [24.00, 112.25]    | 0.596        |                 |                 |              |
| QT, (mm)                      | 347.43 (66.92)          | 339.44 (56.75)            | 320.27 (69.71)          | 390.91 (65.33)           | 0.139        |                 |                 |              |
| QTc, (mm)                     | 430.00 [411.00, 463.00] | 424.00 [409.00, 456.00]   | 430.50 [382.25, 463.75] | 441.50 [422.25, 480.75]  | 0.314        |                 |                 |              |
| <i>Laboratory examination</i> |                         |                           |                         |                          |              |                 |                 |              |
| CKMB, (U/L)                   | 19.40 [14.30, 26.70]    | 19.50 [14.40, 26.70]      | 19.20 [14.33, 26.65]    | 19.70 [13.90, 24.75]     | 0.908        |                 |                 |              |
| CK, (U/L)                     | 110.00 [76.00, 147.00]  | 116.00 [81.00, 142.00]    | 130.50 [97.75, 209.75]  | 90.50 [68.75, 114.50]    | 0.068        |                 |                 |              |
| NT-proBNP, (pg/ml)            | 193.30 [24.70, 1701.00] | 116.10 [22.20, 1171.00]   | 100.10 [36.83, 1552.50] | 551.90 [27.50, 12766.00] | 0.395        |                 |                 |              |
| TnT, (pg/ml)                  | 48.20 [9.10, 377.10]    | 45.60 [8.20, 197.10]      | 46.90 [12.92, 157.10]   | 75.80 [14.95, 1196.50]   | 0.478        |                 |                 |              |
| LDH, (U/L)                    | 263.00 [203.00, 327.00] | 267.00 [243.00, 333.00]   | 243.00 [197.75, 316.00] | 251.00 [191.75, 316.50]  | 0.438        |                 |                 |              |
| INR                           | 1.07 [1.01, 1.16]       | 1.03 [1.00, 1.11]         | 1.15 [1.07, 1.28]       | 1.11 [1.03, 1.21]        | <b>0.001</b> | 0.696           | <b>0.007</b>    | <b>0.029</b> |
| <i>Echocardiograph</i>        |                         |                           |                         |                          |              |                 |                 |              |
| RV diameter, (mm)             | 23.00 [20.00, 30.00]    | 24.00 [21.00, 28.00]      | 22.00 [19.00, 26.50]    | 28.00 [22.25, 34.50]     | 0.156        |                 |                 |              |

|                     |                      |                      |                      |                      |                  |                  |              |                  |
|---------------------|----------------------|----------------------|----------------------|----------------------|------------------|------------------|--------------|------------------|
| LA diameter, (mm)   | 24.00 [22.00, 32.00] | 24.00 [22.00, 27.00] | 23.10 [19.00, 27.00] | 31.00 [22.25, 36.75] | 0.094            |                  |              |                  |
| RA diameter, (mm)   | 27.00 [23.00, 32.00] | 25.00 [23.00, 29.00] | 31.00 [28.25, 37.25] | 29.00 [21.68, 32.00] | <b>0.001</b>     | <b>&lt;0.001</b> | 0.107        | <b>&lt;0.001</b> |
| LVES diameter, (mm) | 37.00 [32.00, 42.00] | 34.00 [31.00, 39.00] | 41.00 [36.75, 47.75] | 37.00 [32.50, 41.75] | <b>0.002</b>     | <b>&lt;0.001</b> | <b>0.023</b> | <b>&lt;0.001</b> |
| LVED diameter, (mm) | 23.00 [20.00, 28.00] | 22.00 [20.00, 25.00] | 27.50 [24.25, 38.75] | 21.50 [19.25, 28.25] | <b>&lt;0.001</b> | <b>&lt;0.001</b> | <b>0.034</b> | <b>&lt;0.001</b> |
| FS, n (%)           | 34.35 (10.28)        | 36.87 (6.29)         | 29.05 (12.37)        | 34.50 (12.80)        | <b>0.012</b>     | <b>0.016</b>     | 0.535        | <b>0.028</b>     |
| LVEF, n (%)         | 62.43 (15.69)        | 67.16 (8.71)         | 54.20 (19.24)        | 61.00 (19.54)        | <b>0.005</b>     | <b>0.007</b>     | 0.356        | <b>0.016</b>     |

MR, mitral regurgitation; TR, tricuspid regurgitation; SaO2, arterial oxygen saturation; NCM, noncompaction cardiomyopathy; PDA, patent ductus arteriosus; PFO, patent foramen oval; ASD, atrial septal defect; VSD, ventricular septal defect; LVNC, left ventricular noncompaction cardiomyopathy; RVNC, right ventricular noncompaction cardiomyopathy; BVNC, biventricular noncompaction cardiomyopathy; CKMB, creatine kinase isoenzyme; CK, creatine kinase; NT-proBNP, N-terminal pro-B-type natriuretic peptide; TnT, troponin T; LDH, lactic dehydrogenase; INR, N-terminal pro-B-type natriuretic peptide; RV, right ventricular; LA, left atrial; RA, right atrium; LVES, left ventricular end-systolic; LVED, left ventricular end-diastolic; FS, left ventricular fractional shortening; LVEF, left ventricular ejection fraction.