**Table 1: Baseline characteristics and perioperative data**

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| Baseline data | N (%) | M±SD |
| Age (y)  <3 years old  3-14 years old  ≥14 years old  Male  Weight (Kg)  Combined malformation  Moderate tricuspid insufficiency  Mild tricuspid insufficiency  Mico-Mild mitral insufficiency  ASD rim length (mm)  superior vena cava rim  inferior vena cava rim  aortic rim  posterior rim  atrioventricular valve rim  Pulmonary artery pressure(mmHg)  ASD size (mm)  Occluder size(mm)  Sheath type(F)  Operative time (min)  Intra-cardiac time(min)  ICU time (h)  Mechanical ventilation time (h)  Blood transfusion | -  31 (34.1)  49 (53.8)  11 (12.1)  45 (49.5)  -  2 (2.2)  58 (63.7)  20 (22.0)  0 (0) | 7.4±8.3  -  -  -  -  25.1±15.1  -  7.4 ± 3.6-  12.1 ± 4.1  1.6 ± 2.4  9.4 ± 3.5  9.3 ± 3.0  31.0 ± 10.2  9.8 ± 4.9  14.3 ± 6.0  8.4 ± 1.6  46.6 ± 30.9  20.3± 16.9  7.3 ± 7.4  1.5 ± 1.5 |

M±SD =mean ± standard deviation, ASD= atrial septal defect, ICU: intensive care unit