

**Supplementary Table 1**

Echo parameter	Males	Females
<b>LV Linear dimensions</b>		
LVIDd (mm)	37 – 56	35 – 51
LVIDs (mm)	22 – 41	20 – 37
IVSd (mm)	6 – 12	5 – 11
LVPWd (mm)	6 – 12	6 – 12
<b>LV mass</b>		
Indexed LV mass (g/m <sup>2</sup> )	40 – 110	33 – 99
<b>LV volumes</b>		
Indexed LV end-diastolic volume (ml/m <sup>2</sup> )	30 – 79	29 – 70
Indexed LV end-systolic volume (ml/m <sup>2</sup> )	9 – 31	8 – 27
<b>Average mitral annular s' (cm/s)</b>		
20-40 years		≥6.4
40-60 years		≥5.7
>60 years		≥4.9
<b>Right heart size and function</b>		
Indexed RVED area (cm <sup>2</sup> /m <sup>2</sup> )	≤13.6	≤12.6
Indexed RA area (cm <sup>2</sup> /m <sup>2</sup> )	≤11	≤11
RVD1 (mm)	26 – 47	22 – 43
RVD2 (mm)	19 – 42	17 – 35
RVD3 (mm)	55 – 87	51 – 80
RVOT proximal (mm)	24 – 44	20 – 42
Fractional area change (%)	≥30	≥35
RV s' (cm/s)		≥9
<b>Aortic dimensions (IE-IE)</b>		
Sinus of Valsalva (mm/m)	13.8 – 21.8	13.1 – 20.7
Sino-tubular junction (mm/m)	11.4 – 18.6	11.0 – 17.8
Proximal ascending aorta (mm/m)	11.5 – 19.9	11.4 – 19.8

	Severely impaired LVEF	Impaired LVEF	Borderline low LVEF	Normal LVEF
LVEF (%)	≤35%	36–49%	50–54%	≥55%
	<b>Normal</b>	<b>Borderline</b>	<b>Dilated</b>	
LA Volume index (ml/m <sup>2</sup> )	<34	34–38	>38	