

Echocardiography: Reference Intervals & Functional Assessment

Alan Williams, Liam King, David O'Connell, Vikash Sharma, Martin Meek, Ruth Pearce, Elliot Cook, Sarah Knight, James White, Stuart Robinson and David Argente

Graded Reference Intervals								
LV Dimensions, Volumes & Mass	Male				Female			
	Normal	Mild	Moderate	Severe	Normal	Mild	Moderate	Severe
LVED diameter (mm)	57-64	57-62	62-65	> 65	55-62	52-55	56-59	> 59
LVD diameter (mm)	55-61	55-60	60-63	> 63	53-57	50-53	53-56	> 56
LVEDV indexed (ml/m ²)	80-79	80-91	93-109	> 109	70-72	71-81	82-91	> 91
LVDV indexed (ml/m ²)	6-11	12-16	17-42	> 42	6-17	19-32	33-37	> 37
LV mass indexed (g/m ²)	40-100	102-127	128-145	> 145	33-89	90-115	116-133	> 133
EF Function	Normal	Borderline Low	Impaired	Severely Impaired				
EF ejection fraction (%)	> 55	50-54	30-49	< 30				
LA Size	Normal	Borderline	Distal					
Volume indexed (ml/m ²)	< 34	35-38	> 38					

Notes

Following a shift to the interpretation of chamber dimensions, height and weight should be entered before measurements. These reference intervals are not valid for 3D measurements. Caution should be used in athletes and pregnant subjects. The dataset is based on a single Cartesian projection and other variations in view. LV EF volume should be measured from apical 4-chamber (4C) and 2C views, avoiding foreshortening. Use Simpson's method for volume (SM) if there is a deficit from 2D linear measurements, indexed to BSA. Borderline LV EF volume should prompt a full assessment of 'normality' (eg volume, mass, v, v, v, v & functional studies), other modalities and reference to your studies. A repeat study in 3-12 months should be considered. Avoid the border wall or moderate to high-function: acute LV EF. EF & LA areas should be measured from a dedicated focused apical view and indexed to BSA. Linear measurements remain important to identify regional pathologies. Aortic dimensions should be measured from inner edge to inner diameter, indexed to height, not BSA.

End-diastole: frame before RVE opens.

End-systole: frame before RVE closes, where the jet starts.

Reference Intervals		
LV Dimensions, Volumes & Mass	Male	Female
LVD diameter (mm)	5-12	5-11
LVD diameter (mm)	5-12	5-11
LVED diameter (mm)	37-58	35-51
LVD diameter (mm)	27-41	25-37
LVEDV (ml)	58-174	40-110
LVDV (ml)	15-42	15-47
LVEDV indexed (ml/m ²)	80-79	70-72
LVDV indexed (ml/m ²)	6-11	6-17
LV mass (g)	70-129	50-119
LV mass indexed (g/m ²)	40-100	33-89
Mean Mitral A-velocity		
Age 20-40	08.4	08.4
Age 40-60	05.7	05.7
Age > 60	04.0	04.0
Aortic Root (normal to large)		
Size of Aortic Root (mm)	33.0-33.8	33.0-33.7
Size of Aortic Root (mm)	33.0-33.8	33.0-33.8
Flow and velocity (ml/m ²)	13.0-13.0	13.4-13.8
RV Dimensions		
RVED proximal (RVd) (mm)	25-43	22-40
RVED proximal (RVd) (mm)	28-44	20-42
RVED distal (RVd) (mm)	30-39	24-28
RVED base (mm)	36-47	27-40
RVED mid (mm)	38-42	27-36
RVED long (mm)	50-67	50-66
RVED area indexed (cm ²)	6.13-6	6.13-6
Functional Area Change (%)	1.30	1.30
TRPS	0.17	0.17
RV A (cm/s)	1.7	1.7
LA Dimensions		
LA area (cm ²)	4.22	4.22
LA area indexed (cm ² /m ²)	4.11	4.11

LV Geometry

- Parasternal short-axis
- Parasternal long-axis
- Apical 4-chamber
- Apical 2-chamber

RV Dimensions

- RVd proximal
- RVd distal
- RVd base
- RVd mid
- RVd long

LA Dimensions

- LA area
- LA area indexed

References

Williams A, King L, O'Connell D, et al. Reference Intervals for Echocardiography in the Adult Population: A Systematic Review of Echocardiography Data for Heart Failure and Hypertension. *Journal of Echocardiography* 2019; 18(1): 1-10.

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