



RAMAKRISHNA MISSION SEVA PRATISHTHAN

99, SARAT BOSE ROAD, KOLKATA-700 026, PHONE : 2475-3636, E-mail : rkmspsm@gmail.com

NONINVASIVE CARDIOVASCULAR LABORATORY

ECHOCARDIOGRAPHY REPORT

Name	SHYAMAL ROY	Age /Sex	74 YRS/M
Ref. Doctor		Date	16.08.2023
Reg. No./Bed No./MRD No.	HM/OPD	Echo No.	

M-MODE			2D PARAMETERS		
AO	25	(25-37 mm)	LA Volume Index		ml/m ² (< 34 ml/m ²)
LA	37	Male (30-40 mm) Female (27-38 mm)	LVEDV		ml/m ² Male(34-74 ml/m ²) Female (29-61 ml/m ²)
LVD	36	Male(42-58 mm) Female (38-52 mm)	LVESV		ml/m ² Male(11-31 ml/m ²) Female (8-24 ml/m ²)
LVS	24	Male (25-40 mm) Female (22-35 mm)	2D EF (BP Simpson)		Male (52-72%) Female (54-74%)
IVS	12	Male (6-10 mm) Female (6-9 mm)	MVA (Planimetry)		(cm ²)
LVPW	11	Male (6-10 mm) Female (6-9 mm)	GLS (Average)=	- 17%	(> 17%)
EF (Teichholz)	64 %	Male (52-72%) Female (54-74%)			
FS	34 %	(28-41%)			
LV Mass Index (LVMI)	92 g/m ²	Male (49-115 g/m ²) Female (43-95 g/m ²)			
RWT		(< 0.42)			
IVC	14 mm.				
TAPSE	23 mm.				

Parameters in brackets indicate normal adult value

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DOPPLER FINDINGS (PW, CW & Colour Flow)

VALVES	PEAK VELOCITY (m/sec)	PRESSURE GRADIENT (mmHg.)	REGURGITATION (mmHg.)
MITRAL VALVE	E = 0.55, A = 0.62 E/A = 0.89, DT= ms, IVRT = ms	-	Trivial MR
AORTIC VALVE	1.17	5.52	-
PULMONIC VALVE	0.82	2.72	
TRICUSPID VALVE	0.38	0.58	TR-25

TISSUE DOPPLER IMAGING

	e' (septal)	cm/s	e'(lateral)=	cm/s	E/e'(average) - 8.4
Mitral annulus					
Tricuspid annulus	RVS' =	cm/s			
PASP		mmHg.			

IMPRESSION

- Concentric left ventricular hypertrophy.
- No regional wall motion abnormality.
- Good LV systolic function with ejection fraction of about 64%.
- Type-I diastolic dysfunction (E/e'(average) - 8.4).
- Average GLPS = - 17.9%.
- Left atrium, right atrium and right ventricle are normal in dimensions.
- Trivial mitral regurgitation / aortic regurgitation and tricuspid regurgitation.
- Aortic sclerosis.
- Other cardiac valves are normal.
- No pulmonary hypertension. PASP = 30 mmHg.
- No mural thrombus seen.