

**REPORT****Clinical Indication:**

Valvular disease

**Findings:****Parameters**

Height: 1.60 m. Weight: 67.0 kg. BSA: 1.73 m<sup>2</sup>.

**Left Ventricle**

The left ventricle is normal in size and exhibits normal geometry. No regional wall motion abnormalities. Normal LV systolic function. The estimated ejection fraction is 55-59%.

**Right Ventricle**

Normal cavity size and function. TAPSE: 23mm, RV S': 11cm/s.

**Left Atrium**

Normal left atrium size.

**Right Atrium**

The right atrium cavity size is normal.

**Aorta**

The aortic root is normal in size. The tubular ascending aorta is severely dilated with its tubular part measuring 52mm.

**Aortic Valve**

The aortic valve is trileaflet and appears structurally normal. Mild to moderate aortic valve regurgitation.

**Mitral Valve**

Calcified mitral annulus. There is trace amount of mitral regurgitation.

**Tricuspid Valve**

Normal tricuspid valve leaflets. There is trace amount of tricuspid regurgitation.

**Pulmonary Valve**

Normal pulmonary valve leaflets. There is trace amount of pulmonary valve regurgitation.

**IVC / Hepatic Veins**

The inferior vena cava is compliant and not dilated.

**Pericardium**

There is no pericardial effusion.

**LV Dimensions**

IVSd	11 mm	▲ (0-9)
LVISd	41 mm	(38-52)
LVPSd	8 mm	(8-9)
LVISa	30 mm	(22-30)
LV Mass Paren	155 g	
LV Mass I	78.7 g/m <sup>2</sup>	(43.0-95.0)
LV RWT	0.37	(0.22-0.42)

**Left-sided Chambers**

LA diam systole	38 mm	(27-38)
LA Vol (A2C)	38.08 ml	
LA Vol I (A2C)	22.97 mm <sup>3</sup>	

**Right-sided Chambers**

TAPSE	23 mm	(≥17)
-------	-------	-------

**Aortic Dimensions**

Ao SV diam	32 mm	(24-30)
Ao STJ diam	39 mm	▲ (20-32)
Ao Asc diam	53 mm	▲ (19-35)
Ao Asc diam I	30.53 mm/m <sup>2</sup>	▲ (10.00-22.00)

**Aortic Valve**

AR PHT	448 ms	
AR Vmax	4.14 m/s	

**Diastology - LV inflow**

MV E Vel	0.84 m/s	
MV A Vel	1.28 m/s	
MV E/A	0.50	
MV Dec. Time	167 ms	

**Diastology - TDI**

E'(s)	3.05 cm/s	▼ (≥7.00)
-------	-----------	-----------

**Tricuspid Valve**

TR Vmax	1.96 m/s	(≤2.80)
TR PGmax	15.41 mm Hg	

**Conclusion:**

Normal LV systolic function. The estimated ejection fraction is 55-59%.

The tubular ascending aorta is severely dilated with its tubular part measuring 52mm.

Mild to moderate aortic valve regurgitation.

Mohamad Samir Arnaout MD

This report has been electronically signed and validated / by Dr. Mohamad Samir Arnaout MD