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Transthoracic Echocardiogram Report

Name: **Edward STEELE** Test Date: 03/11/2021
Address: 14/35a Grandview Gve, Prahran DOB: 27/10/1948
Referrer: Dr Charles Bush
Clinical: Systolic murmur FI - ?Aortic stenosis severity.

CONCLUSIONS

1. Severe calcific aortic stenosis.
2. Mild concentric LV hypertrophy with normal LV ejection fraction.
3. Moderate left atrial dilatation.
4. Mild calcific mitral stenosis.
5. Upper normal pulmonary pressure.
6. Small pericardial effusion.

Tech: S Stevenson	*Quality:* Good	*BSA:* 2.05	*BMI:* 28	*HR* 95	*Rhythm:* SR	*BP* 134/70

Left Ventricle (LV) Diastole	45	mm		**Aortic Root**	37	mm	
LV Diastole Indexed	22	mm/m²	<31	**Aortic Root Indexed**	18	mm/m²	<21
LV Septum	16	mm		**Ascending Aorta**	36	mm	
LV Posterior Wall	11	mm		**Left Atrial Area**	28	cm²	
LV Mass Indexed	117	g/m²		**Left Atrial Volume Indexed**	53	ml/m²	<34
LV Relative Wall Thickness	49	%	<43	**Right Atrial Area**	22	cm²	
LV Ejection Fraction	70	%		**Inferior Vena Cava**	20	mm	

	Velocity (m/s)	Gradient Peak (mmHg)	Gradient Mean (mmHg)	VTI (cm)	Regurgitation	PHT (ms)	Valve Area (cm²)
LV Outflow Tract	1.0			23			
Aortic	4.5	82	53	99	Trivial		
Mitral	1.1				Trivial-Mild		
Pulmonary	0.8				Trivial		
Tricuspid	-				Trivial		

Mitral Valve	E wave	1.1 m/s	A wave	1.7 m/s	DT	399 ms	Mean E/e'	27
Annular Velocities	Septal e'	3 cm/s	Lateral e'	5 cm/s	RV s'	cm/s	TAPSE	2.1 cm
Tricuspid Valve	TR V_{max}	2.7 m/s	RVSP	30 mmHg + RAp				

Left Ventricle: Normal size. Mild concentric hypertrophy with basal septal bulge. Normal ejection fraction (visual: 70%), no regional hypokinesis. Indeterminate estimated filling pressure (mitral pathology).

Right Ventricle: Normal size, wall thickness and contraction.

Atria: Moderately dilated left atrium. Mildly dilated right atrium. No Doppler evidence of interatrial shunt.

Mitral Valve: Moderate posterior annular calcification with encroachment into the base of the leaflets. Leaflet tips are thin and mobile with mild chordal SAM noted. Mild stenosis by Doppler (mean gradient= 5 mmHg at HR 81 bpm). Trivial to mild regurgitation.

Aortic Valve: Trileaflet with thickened, calcified leaflets and severely restricted opening. Severe stenosis by Doppler (mean gradient= 53 mmHg, DI= 0.23). Trivial regurgitation.

Aorta: Normal aortic root, proximal ascending aorta and aortic arch (29 mm).

Tricuspid Valve: Normal.

Pulmonary Valve: Normal.

Pulmonary Pressure: Upper normal estimated pulmonary pressure (RVSP=38 mmHg, assuming RA pressure=8 mmHg).

Inferior Vena Cava: Normal diameter and normal forced inspiratory collapse consistent with normal right atrial pressure.

Pericardium: Small pericardial effusion adjacent to right atrium with mild diastolic right atrial free wall inversion.

Cardiologist: **A/Prof Arthur Nasis**