



Royal North Shore Hospital

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Transthoracic Echocardiography (TTE) Study

Procedure date/time:	30/07/2024 11:52 AM	Accession no:	1725282658
Patient name:	KNEIPP John William	Patient ID:	2029741
Date of birth:	7/12/1950	Age:	73 year(s)
Height:	160 cm	Gender:	Male
Weight:	65 kg	BSA:	1.7 m ²

Procedure Staff

Referring Physician:	Stangenberg Stefanie	Sonographer:	Paramjit Kaur Bulbir Singh
Interpreting Physician:	Malcolm Anastasius		

Proc. sub type: TTE procedure

Indications

Syncope and Hypotension.
MBS Code: 55127 - valvular dysfunction (serial)

Procedure Information

Image quality:	Good visualization	Study location:	Treatment room
		Specialty:	Cardiology
Procedure consent:	Yes		
Comments:	Patient verbally aggressive, security present, challenging study		

Measurements

Dimensions

Sinus of Valsalva:	3 cm	LV Internal Dimension (end dias):	4.2 cm
Sinus of Valsalva index:	1.88 cm/m	LV Internal Dimension (end sys):	3.2 cm
Septal Thickness:	1.6 cm	RA area:	17 cm ²
Post LV Wall Thickness:	1.5 cm	RA volume index:	28.7 ml/m ²
LA area:	26.5 cm ²	LA volume (BP) index:	53.2 ml/m ²
LA volume (BP):	89.3 ml		

Aortic Valve

AV Peak velocity:	4.1 m/s
AV Peak gradient:	67.2 mmHg
AV Mean gradient:	39 mmHg
AV VTI:	93 cm
LVOT diameter:	2.1 cm
LVOT peak velocity:	1.5 m/s
LVOT VTI:	31.9 cm
AVA (Continuity):	1.2 cm ²
AVA Indexed:	0.7 cm ² /m ²
SV Indexed:	65.8 ml/m ²

Right Ventricle

TAPSE:	2.9 cm
RV s' velocity:	0.17 m/s

Mitral Valve

MV Peak E-wave:	1.03 m/s
MV Peak A-wave:	1.36 m/s
Lateral E' velocity:	0.104 m/s
Septal E' velocity:	0.068 m/s
E/E' lateral:	9.9
E/E' septal:	15.21
E/E' average:	12.56

Tricuspid Valve

TR velocity:	2.9 m/s
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Procedure Summary**Summary:**

Normal left ventricular chamber size, moderate-severe concentric left ventricular wall thickening and normal systolic function. Ejection fraction estimated at 65 %. Grade II diastolic dysfunction
 Normal right ventricular size and systolic function.
 Moderately dilated left atrium.
 Trileaflet aortic valve; moderate aortic valve stenosis (AVA 1.2cm², PG/MG 67/38mmHg, DVI 0.34), trivial aortic regurgitation
 Mild thickening of the mitral valve leaflet with mild-moderate mitral regurgitation.
 Mild tricuspid regurgitation. Normal pulmonary artery systolic pressure of 32 mmHg, assuming a right atrial pressure 8 mm/Hg.
 No pericardial effusion detected.

Findings (Rest)

<u>Left Ventricle:</u>	Normal left ventricular chamber size, moderate-severe concentric left ventricular wall thickening and normal systolic function. Ejection fraction estimated at 65 %. Grade II diastolic dysfunction
<u>Right Ventricle:</u>	Normal right ventricular size and systolic function.
<u>Left Atrium:</u>	Moderately dilated left atrium.
<u>Right Atrium:</u>	Normal right atrial size.
<u>Aortic Valve:</u>	Trileaflet aortic valve; moderate aortic valve stenosis (AVA 1.2cm ² , PG/MG 67/38mmHg, DVI 0.34), trivial aortic regurgitation
<u>Mitral Valve:</u>	Mild thickening of the mitral valve leaflet with mild-moderate mitral regurgitation.
<u>Tricuspid Valve:</u>	Mild tricuspid regurgitation. Peak flow velocity 2.4 m/sec, predicting pulmonary artery systolic pressure of 32 mmHg, assuming a right atrial pressure 8 mm/Hg.
<u>Pulmonary Valve:</u>	Normal pulmonary valve structure and function.
<u>Pericardium & Pleura:</u>	No pericardial effusion detected.
<u>Septa & Shunts:</u>	No shunt detected by colour Doppler examination.
<u>Additional Findings:</u>	Normal IVC size and collapse.

A handwritten signature in black ink on a light gray background. The signature is cursive and reads "Malcolm Anastasius".

Electronically signed by Malcolm Anastasius (Interpreting Physician) on 30/07/2024 at 3:48 PM