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| Patient Name: | NEWBOULD, JOHN STEWART | Accession Number: | PR-16864904-US |
| Patient ID: | PR-DGH508Z | Study Date: | December 16, 2024 13:24 |
| Gender: | Male | Report Status: | Final |
| Date of Birth: | July 23, 1943 | Requested Procedure: | 18334849 |
| Home Phone: | | Procedure Description: | TOU-ECHOCARDIOGRAM |
| Referring Physician: | MARTIN, GERARD | Modality: | US |
| Organisation: | TOU | | |

Findings

Reporting MD: SURI, PRATEEK
Dictation Time:
Transcription Date:

TRANSTHORACIC ECHOCARDIOGRAM

HISTORY: 81 year old male. 2yr review of AS

COMPARISON: Echocardiogram 08/12/2022 (PRP)

Height:1.65 m Weight:77 kg BSA:1.84m2 Rhythm: Sinus rhythm

IMPRESSION

1. Normal LV cavity size with normal contractility. Mild LV hypertrophy. LVEF: 60-65% (visually).
2. Normal RV size and systolic function. Mildly elevated pulmonary artery systolic pressure of 44mmHg.
3. Severe calcific aortic valve stenosis. (2D appearance and valve area suggest severe AS but mean gradient not in severe range PkVel: 4.2m/s, MnGd: 34mmHg, AVA:0.84cm2).
4. Severely dilated left atrium. Mildly dilated right atrium.

CHAMBERS

LEFT VENTRICLE: Normal LV cavity size with normal contractility. Mild LV hypertrophy.

LEFT ATRIUM: Severely dilated left atrium.

RIGHT VENTRICLE: Normal RV size and systolic function.

RIGHT ATRIUM: Mildly dilated right atrium.

PERICARDIUM: Normal. No pericardial effusion.

AORTA: Normal calibre aortic root, ascending aorta and arch.

VALVES

AORTIC: Trileaflet, with severe calcific aortic valve stenosis. Leaflet calcification and severe restriction. Trivial regurgitation(LVOT Vel: 0.8m/s, LVOT VTI:18.2cm, AoV PkVel: 4.2m/s, AoV VTI: 91cm, PkGd: 69mmHg, AoV MnGd: 34mmHg, AVA: 0.84cm², LVOTd: 23mm, DVI: 0.2).

MITRAL: Thickened mitral valve leaflets with trivial regurgitation. Mild posterior mitral annular calcification. (E/A:2, E: 1.2m/s, A: 0.6m/s, e'med:7.5cm/s, e'lat: 10cm/s, E/e' Avg:14).

PULMONARY: Normal leaflet motion. Trivial regurgitation. (RVOT PkVel: 0.7m/s, PV PkVel: 1.6m/s).

TRICUSPID:Normal leaflet motion with trivial-mild regurgitation.

PASP: Mildly elevated pulmonary artery systolic pressure. (TR PkVel: 3.2m/s, TRPkGd: 41mmHg, RAP: 3mmHg, PASP: 44mmHg, IVC: 13mm).

MEASUREMENTS:

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|---------|----|-----------|----------|----|---------|---------------|-------|--------|
| AoRoot: | 34 | (31-37mm) | AscAo: | 35 | (<37mm) | LVEF(Visual): | 60-65 | (>51%) |
| LVEDD: | 46 | (42-58mm) | AoArch: | 23 | (<37mm) | LVEF(BP): | | (>51%) |
| LVESD: | 35 | (<40mm) | LA(A-P): | 40 | (<40mm) | FR Short: | 24 | (>34%) |

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|------|----|----------|-------|----|------------|-----------|----|---------|
| IVS: | 12 | (6-10mm) | LAVI: | 53 | (<34ml/m2) | RV Basal: | 34 | (<42mm) |
| PW: | 12 | (6-10mm) | RAVI: | 35 | (<32ml/m2) | TAPSE: | 27 | (>17mm) |

Cardiologist: Dr Prateek Suri