

Patient Information

PATIENT'S NAME (Last, First Middle Name)					DATE/TIME OF EXAM
RIVERA, ROEL PAGDINGALAN					Apr-4-2024 5:00 pm
PIN	BIRTHDATE	AGE/GENDER	ROOM/BED	REQUESTING PHYSICIAN	
1310163268	12/02/1986	37 yrs/Male	OPD	DEFAULT, UNIT DOCTOR- HEART INSTITUTE M.D.	

Clinical Summary

 Cardiac Evaluation
 Dyslipidemia

Echocardiography Information: HR: 70 BP: Weight: 154 lb Height: 67.5 in BSA: 1.8 m²

M-Mode/2D Measurements			M-Mode/2D Measurements			M-Mode/2D Measurements			
		Normal Values			Normal Values				Normal Values
LVEDD	4.7	M (4.2 - 5.9 cm) F (3.9 - 5.3 cm)	LVMl	80.4	M (≤ 115 gm/m ²) F (≤ 95 gm/m ²)	RV (base)	2.7	2.5-4.1 cm	
LVEDD by BSA (cm/m ²)	2.5	M (2.2 - 3.1) F (2.4 - 3.2)	RWT	0.36	≤ 0.42	RV (mid)	3.4	1.9-3.5 cm	
LVESD	3.1		SV	39.6		RVOT Diameter	1.9	≤ 2.7 cm	
LVEDV	99.8		CO	4.3		RA (S-I)	4.6	≤ 5.3 cm	
LVESV	38.8		LV EF (Simpson's)	62.7	$\geq 53\%$	RA Area	13.2	< 18 cm ²	
IVS (D)	1.0	M (0.6 - 1.0 cm) F (0.6 - 0.9 cm)	LV EF (Teichholz)	61.1	$\geq 53\%$	LA VI	16.8	≤ 34 ml/m ²	
IVS (S)	1.3		LV GLS		$\geq 18\%$	(cm)	(cm/m ²)	(cm)	by BSA (cm/m ²)
LVPW (D)	0.84	M (0.6 - 1.0 cm) F (0.6 - 0.9 cm)	FS	32.7	28-41%	RA (R-L)	3.6	2.0	≤ 4.4 cm 1.5 - 2.3 cm/m ²
LVPW (S)	1.2		AV Op	1.7	1.5 - 2.0 cm	LA (A-P)	3.3	1.8	M (3-4 cm) 1.5 - 2.3 cm/m ² F (2.7-3.8 cm) 1.5 - 2.3 cm/m ²
Mitral Annulus	2.7	cm	EPSS	0.30	<1 cm	Aortic Dimensions		(cm)	By BSA (male) † 1.16 - 1.76 By BSA (female) † 1.14 - 1.74
			LVOT	1.8		Annulus	1.8	0.98	2.4 - 3.0 1.9 - 2.5 1.43 - 2.03
			MPA	1.7		SOV	2.9	1.6	3.59 - 3.99
			IVC expiration	1.5	≤ 2.1 cm	STJ	2.5	1.4	3.36 - 3.96 1.83 - 2.43 1.34 - 1.94
			IVC inspiration	0.70		Prox. Asc	2.5	1.4	3.36 - 3.96 1.83 - 2.43 1.34 - 1.94
			% IVC collapse	53.3	> 50%				

Doppler Study	Mitral		Aortic		Tricuspid		Pulmonic	
Maximum Velocity (cm/s)	72.3	E: 60 - 130	94.9	V1 (LVOT)	60.8	30 - 70		V1 (RVOT)
	65.5	A: 30 - 75	146.0	V2 (AV) 100 - 170	39.3		81.8	V2 (PV) 60 - 90
E/A Ratio	1.1	0.9 - 1.5						
Peak Gradient (mmHg)	2.1	2.4 - 6.7	8.5	4.0 - 11.5	1.5	1.25 - 2.8	2.7	2.4 - 5.6
Mean Gradient (mmHg)								
Velocity Time Integral (cm)		VTI 1		VTI (LVOT)		VTI		VTI (RVOT)
				VTI (AV)		VTI		VTI (PV)
Pressure Half Time (sec)	0.06	< 0.09						
Deceleration Time (sec)	0.22	0.16 - 0.24						
IVRT (sec)	0.09	0.06 - 0.09						
Valve Area (cm ²)		4-6		2-4				2-4
Vena Contracta (cm)								
						PAT (sec)	0.11	≥ 0.12

Pulmonic Veins			Estimated Pulmonary Pressures		
Peak Systolic Velocity (cm/s)	50.7	40 - 80	TR Jet PG (mmHg)	27.2	
Peak Diastolic Velocity (cm/s)	40.3	30 - 60	RA Pressure (mmHg)	3.0	
Atrial Reversal Velocity (cm/s)	23.2	1 - 39	RVSP (mmHg)		
Atrial Reversal Duration (sec)	0.08	0.03 - 0.17	PASP (mmHg)	30.2	≤ 35
Mitral Annulus A Wave Duration (sec)		0.10 - 0.18			
Ar-A (msec)		< 0			

PERFORMED BY: ABELLAR, TALITHA NIKKI F., RN, ECHO TECHNOLOGIST PRINT DATE/TIME: Apr-5-2024 10:14 am

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LV TDI					RV		
	Septal		Lateral		Sm'	13.4	≥10cm/s
Sm'	7.9	≥7cm/s	11.6	≥9cm/s	TAPSE	2.2	≥1.7cm
e'	9.0	≥8cm/s	16.6	≥10cm/s	† values are based on the American Society of echocardiography Guidelines of 2019		
a'	12.7		9.5				
E/e'	8.0	≤10	4.4	≤10			

Interpretation

Normal left ventricular diameter, left ventricular mass index and relative wall thickness. Adequate wall motion and contractility. Normal diastolic function.

Normal right ventricular size. Adequate wall motion and contractility.

Normal left atrial diameter and left atrial volume index. Normal right atrial diameter.

Thickened anterior mitral valve leaflet without restriction of motion. Mild regurgitation.

Normal tricuspid valve. Mild regurgitation.

Normal aortic valve.

Normal pulmonic valve. Mild regurgitation.

Normal aortic root and proximal ascending aorta. Normal main pulmonary artery.

No pericardial effusion.

Normal pulmonary arterial systolic pressure.

SUGUITAN, ELEAZAR T., M.D.
CARDIOLOGY FELLOW


SHIA, VICTORIA T., M.D.
CARDIOLOGIST - ECHOCARDIOGRAPHER

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279 E Rodriguez Sr. Ave. Quezon City, Philippines * Tel. No.: (632) 8723-0101