2 DIMENSIONAL ECHO AND DOPPLER STUDY REPORT

Name:	**BASAÑEZ, MIER A.**			Age:	57	Date:	March 08, 2019
Address:	QUEZON CITY			Sex:	FEMALE	RC:	119
Ref. MD:				Weight:	61 kg	HR:	68 Per min
Hospital	PHILIPPINE HEART CENTER (PHC)			Height:	159 cm	SBP:	mmHg
Study No:	2DED 19-03-058/IE33-2	Technician	Dan/Ket	BSA:	1.54 M^2	DBP:	mmHg

LEFT VENTRICULAR DIMENSION (LV)

Parameter		Normal Range
LVEDD	4.8	
LVESD	3.0	
LVEDD/BSA	2.9	2.4-3.2 cm/m^2
LVESD/BSA	1.8	1.4-2.1 cm/m^2
IVSD	1.1	0.6-0.9 cm
IVSS	1.4	
PWD	1.1	0.6 – 0.9 cm
PWS	1.3	
LV Mass In.	104	43-95 gm/m^2
LV Rel. WT	0.46	0.22 – 0.42 cm
LVOT	2.2	1.8 – 2.4 cm/m
EPSS	0.7	< 0.7 cm

RIGHT VENTRICULAR DIMENSION

RVD mid	2.3/2.8	2.7 – 3.3 cm
RVWT	0.5	< 0.5 cm

LV VOLUME & SYSTOLIC FUNCTION

Parameter		Normal Range
LVEDV	105	56-104 ml
LVESV	36	19 - 49 ml
Stroke Vol.		
Bi-plane	69	70-100 ml
Doppler	65	>70-100 ml
C.O	4.4	>4.0 L/Min
C.I	2.7	>2.5 L/min/m^2
Eject. Fraction		
M-Mode	66	> 55 %
Simpson's	73	> 55 %
FS	37	27-45 %
LVET	306	265 - 325 msec

RVOT1	2.5	2.5 – 2.9 cm
RVFAC	40	32 - 60 %

ATRIA AND GREAT VESSELS

Parameter		Normal Range
LA (AP)	2.8	
LA / BSA	1.7	1.5 – 2.3 cm/m^2
LA Vol. In.	20	<34 ml/m^2
RA	3.3	2.9 – 4.5 cm
RA / BSA	2.0	1.7-2.5 cm/m^2
AORTA		
Annulus	1.9	1.4 – 2.6 cm
Sinus Val.	2.4	2.1 – 3.5 cm
ST Junct.	2.6	1.7 – 3.4 cm
Ascending	3.0	2.1 – 3.4 cm
ARCH	2.3	2.0 – 3.6 cm
MAIN PA	2.0	1.5 – 2.1 cm
IVC Diameter	1.5/0.6	1.5 – 2.5 cm
IVC Collapse%	60	> 50 %
MV Annulus	2.8	1.8 – 3.1 cm
TV Annulus	2.0	1.3 – 2.8 cm
PV Annulus	2.0	1.7 – 2.3 cm

DOPPLER STUDY : HEMODYNAMICS

	Velocity m/sec		Peak Grad mmHg		Valve Area cm^2	VTI(cm)	VC(cm)	REGURGITATION %	Jet Area cm^2	Volume(ml)
LVOT/ AV	0.8	1.5	3.0	8.0						
Mitral Valve	0.7	1.0	2.0	4.0						
Tricuspid Valve	0.6	0.4	1.0	0.5						
RVOT /PA	0.5	1.0	1.0	7.0						
PAT 121 msec			MPAP (PAT)				SPAP (TR Jet)			mmHg

DOPPLER STUDY:(LV) DIASTOLIC FUNCTION

PUL. VENOUS VELOCITY

Systolic	0.7	m/sec
Diastolic	0.4	m/sec
S/D ratio	>1	m/sec
Ar Velocity	0.4	msec
Ar Duration	134	

MITRAL INFLOW

E wave DT	222	msec
IVRT	99	msec
A Wave dur	197	msec
Adur - Adur		msec

MITRAL ANNULAR TDI

Lateral E'	5	cm/sec	E/E' ratio	14
A'	10	cm/sec		
Medial E'	6	cm/sec	E/E' ratio	11
A'	9	cm/sec		

** Normative values for cardiac chambers are based on ASE recommendations for Chamber Quantification JASE Dec 2005; Otto Textbook of Clinical Echocardiography; 3rd Edition, Reynolds The Echocardiograher's Pocket Reference 2nd Ed.*

** LVMI calculated using Linear method. CO and CI values are based on Doppler derived Stroke Volume. LVMI for LV Mass Index, LV RWT for LV Relative wall thickness, RVFAC for RV Fractional Area Changes, RVOT1 Above aortic valve.*

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ECHOCARDIOGRAPHIC REPORT

Normal left ventricular end diastolic diameter with increased left ventricular mass index, increased relative wall thickness, normal wall motion and normal global Ejection fraction. Global longitudinal strain of -18%
Normal right ventricular dimension with normal wall motion, normal TAPSE and normal FAC
Normal left atrial volume index
Normal right atrial volume index
Normal main pulmonary artery, aortic root and proximal ascending aorta
Normal inferior vena cava with normal collapsibility
Thickened aortic valve and mitral valve without restriction of motion
Structurally normal tricuspid valve and pulmonic valve
No intracavitary thrombus nor pericardial effusion

COLOR FLOW DOPPLER STUDY

No abnormal color flow
Reduced mitral annulus E' velocity
E/E' of 12.5 (average)
Mitral inflow E/A velocity ratio of 0.7:1 with E' velocity of 0.7 m/sec
Normal mean pulmonary artery pressure

CONCLUSION

Concentric left ventricular hypertrophy with normal wall motion, normal global systolic function, Grade 1 diastolic dysfunction and normal filling pressure. Global longitudinal strain of -18%
Normal left atrial volume index
Aortic sclerosis
Mitral sclerosis
Normal mean pulmonary artery pressure

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