2 DIMENSIONAL ECHO AND DOPPLER STUDY REPORT

Name:	**ATRASADO, GINA S.**			Age:	33	Date:	January 03, 2019
Address:	QUEZON CITY			Sex:	FEMALE	RC:	
Ref. MD:	DR. ADORA GATLABAYAN			Weight:	47 kg	HR:	71 Per min
Hospital	LUNG CENTER OF THE PHILIPPINES (LCP)			Height:	152 cm	SBP:	mmHg
Study No:	2DED 19-01-003/HD11-2	Technician	May	BSA:	1.41 M^2	DBP:	mmHg

LEFT VENTRICULAR DIMENSION (LV)

Parameter		Normal Range
LVEDD	4.1	
LVESD	2.8	
LVEDD/BSA	2.9	2.4-3.2 cm/m^2
LVESD/BSA	2.0	1.4-2.1 cm/m^2
IVSD	0.8	0.6-0.9 cm
IVSS	1.1	
PWD	0.8	0.6 – 0.9 cm
PWS	1.3	
LV Mass In.	69	43-95 gm/m^2
LV Rel. WT	0.39	0.22 – 0.42 cm
LVOT	1.9	1.8 – 2.4 cm/m
EPSS	0.3	< 0.7 cm

RIGHT VENTRICULAR DIMENSION

RVD mid	1.7/2.7	2.7 – 3.3 cm
RVWT	0.3	< 0.5 cm

LV VOLUME & SYSTOLIC FUNCTION

Parameter		Normal Range
LVEDV	75	56-104 ml
LVESV	31	19 - 49 ml
Stroke Vol.		
Bi-plane	45	70-100 ml
Doppler	49	>70-100 ml
C.O	3.5	>4.0 L/Min
C.I	2.5	>2.5 L/min/m^2
Eject. Fraction		
M-Mode	60	> 55 %
Simpson's	64	> 55 %
FS	31	27-45 %
LVET	277	265 - 325 msec
RVOT1	2.6	2.5 – 2.9 cm
RVFAC	43	32 - 60 %

ATRIA AND GREAT VESSELS

Parameter		Normal Range
LA (AP)	3.0	
LA / BSA	2.1	1.5 – 2.3 cm/m^2
LA Vol. In.	25	<34 ml/m^2
RA	3.6	2.9 – 4.5 cm
RA / BSA	2.6	1.7-2.5 cm/m^2
AORTA		
Annulus	1.8	1.4 – 2.6 cm
Sinus Val.	2.5	2.1 – 3.5 cm
ST Junct.	2.2	1.7 – 3.4 cm
Ascending	2.4	2.1 – 3.4 cm
ARCH	2.0	2.0 – 3.6 cm
MAIN PA	1.7	1.5 – 2.1 cm
IVC Diameter	1.9/0.8	1.5 – 2.5 cm
IVC Collapse%	58	> 50 %
MV Annulus	2.7	1.8 – 3.1 cm
TV Annulus	2.1	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	1.2	2.7	5.9						
Mitral Valve	0.7	0.4	1.9	0.7						
Tricuspid Valve	0.4	0.2	0.8	0.3						
RVOT /PA	0.6	0.8	1.5	2.8						
PAT 142 msec			MPAP (PAT)				SPAP (TR Jet)			mmHg

DOPPLER STUDY:(LV) DIASTOLIC FUNCTION

PUL. VENOUS VELOCITY			MITRAL INFLOW			MITRAL ANNULAR TDI				
Systolic	0.6	m/sec	E wave DT	196	msec	Lateral E'	18	cm/sec	E/E' ratio	3
Diastolic	0.5	m/sec	IVRT	81	msec	A'	8	cm/sec		
S/D ratio	>1	m/sec	A Wave dur	128	msec	Medial E'	14	cm/sec	E/E' ratio	5
Ar Velocity	0.3	msec	Adur - Adur		msec	A'	6	cm/sec		
Ar Duration	81									

** 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 cavity size and wall thickness with normal contractility and systolic function
Normal left ventricular mass index and relative wall thickness
Normal left atrium with normal volume index
Normal right ventricular dimension with normal contractility and systolic function
Normal right atrium, main pulmonary artery and aortic root dimensions
Structurally normal mitral valve, aortic valve, tricuspid valve and pulmonic valve
No intracavitary thrombus nor pericardial effusion noted

COLOR FLOW DOPPLER STUDY

Normal mitral annular velocities with normal E/E' ratio
Normal pulmonary artery pressure

CONCLUSION

Normal 2D Echo and Doppler Study

MARY JENNIFER DIMAYUGA-MENDOZA, MD
LEVEL 3 ECHOCARDIOGRAPHER

M.C.B/SONOGRAPHER

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