2 DIMENSIONAL ECHO AND DOPPLER STUDY REPORT

Name:	**ASILO, EDWARD ANTHONY C.**			Age:	37	Date:	March 04, 2019
Address:	QUEZON PROVINCE			Sex:	MALE	RC:	
Ref. MD:	DR. MA. REMEDIOS CABALLERO			Weight:	62 kg	HR:	79 Per min
Hospital	NATIONAL KIDNEY AND TRANSPLANT INSTITUTE (NKTI)			Height:	177 cm	SBP:	mmHg
Study No:	2DED 19-03-026/HD11	Technician	Van	BSA:	1.75 M^2	DBP:	mmHg

LEFT VENTRICULAR DIMENSION (LV)

Parameter		Normal Range
LVEDD	4.9	
LVESD	3.0	
LVEDD/BSA	2.8	2.2-3.1 cm/m^2
LVESD/BSA	1.7	1.4-2.1 cm/m^2
IVSD	1.0	0.6-1.0 cm
IVSS	1.5	
PWD	0.8	0.6 – 1.0 cm
PWS	1.3	
LV Mass In.	88	49-115 gm/m^2
LV Rel. WT	0.33	0.24 –0.42 cm
LVOT	2.3	1.8– 2.4 cm
EPSS	0.5	< 0.7 cm

RIGHT VENTRICULAR DIMENSION

RVD mid	2.9	2.7 – 3.3 cm
RVWT	0.5	< 0.5 cm

LV VOLUME & SYSTOLIC FUNCTION

Parameter		Normal Range
LVEDV	111	67-155 ml
LVESV	35	22 -58 ml
Stroke Vol.		
Bi-plane	68	70-100 ml
Doppler	74	73-100 ml
C.O	5.9	>4.0 L/Min
C.I	3.4	>2.5 L/min/m^2
Eject. Fraction		
M-Mode	69	> 55 %
Simpson's	62	> 55 %
FS	39	25-43 %
LVET	263	265 - 325 msec
RVOT1	2.4	2.5 – 2.9 cm
RVFAC	37	32 - 60 %

ATRIA AND GREAT VESSELS

Parameter		Normal Range
LA (AP)	3.1	
LA / BSA	1.8	1.5 – 2.3 cm/m^2
LA Vol. In.	34	<34 ml/m^2
RA	3.5	2.9 – 4.5 cm
RA / BSA	2.0	1.7-2.5 cm/m^2
AORTA		
Annulus	2.0	1.4 – 2.6 cm
Sinus Val.	3.1	2.1 – 3.5 cm
ST Junct.	2.2	1.7 – 3.4 cm
Ascending	3.0	2.1 – 3.4 cm
ARCH	2.6	2.0 – 3.6 cm
MAIN PA	1.4	1.5 – 2.1 cm
IVC Diameter	2.0/0.5	1.5 – 2.5 cm
IVC Collapse%	75	> 50 %
MV Annulus	2.5	1.8 – 3.1 cm
TV Annulus	2.5	1.3 – 2.8 cm
PV Annulus	1.6	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	0.9	1.0	3.1	3.9						
Mitral Valve	0.9	0.6	3.4	1.8						
Tricuspid Valve	0.5	0.4	1.2	0.7						
RVOT /PA	0.6	0.7	1.3	2.0						
PAT 169 msec			MPAP (PAT)				SPAP (TR Jet)			mmHg

DOPPLER STUDY:(LV) DIASTOLIC FUNCTION

PUL. VENOUS VELOCITY

Systolic	0.5	m/sec
Diastolic	0.4	m/sec
S/D ratio	>1	m/sec
Ar Velocity	0.2	msec
Ar Duration	88	

MITRAL INFLOW

E wave DT	182	msec
IVRT	148	msec
A Wave dur	118	msec
Adur - Adur		msec

MITRAL ANNULAR TDI

Lateral E'	11	cm/sec	E/E' ratio	8
A'	8	cm/sec		
Medial E'	10	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 cavity size with normal wall motion, contractility and systolic function
Normal left ventricular mass index and relative wall thickness
Normal right ventricular cavity size with normal wall motion and contractility
Normal left atrial size and volume index
Normal right atrium, main pulmonary artery and aortic root dimensions
Structurally normal tricuspid, mitral, pulmonic and aortic valves
Intact interatrial and interventricular septum
No intracardiac thrombus and no pericardial effusion noted

COLOR FLOW DOPPLER STUDY

No mosaic color flow display across the valves, septae and great vessels
Normal mitral annular velocity. E/E' of 9.5
Normal mean pulmonary artery pressure by right ventricular acceleration time

CONCLUSION

Normal left ventricular dimension with normal wall motion, contractility and systolic function
Normal pulmonary artery pressure

Original Signed
ANA BEATRIZ MEDRANO, MD
LEVEL 3 ECHOCARDIOGRAPHER

J.N.T./SONOGRAPHER

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