

Acknowledgement

Thank to Allah

for

accomplishment of this work

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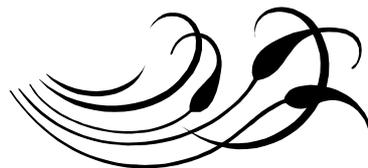
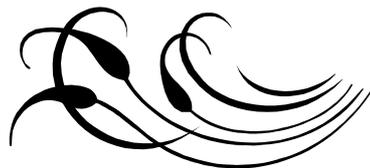
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LIST OF ABBREVIATION

3D	:	3 dimensional
A, E, E/A	:	Right ventricle filling velocities
Ao	:	Aorta
AV	:	Atrioventricular
BA	:	Bronchial asthma
BMI	:	Body mass index
bpm	:	Beat per minute
cm	:	Centimeter
COPD	:	Chronic obstructive pulmonary disease
CT	:	Computed tomography
CXR	:	Chest X ray
E max	:	Slope of maximum time – varying elastance
ECG	:	Electrocardiography
EEPV	:	End ejection pressure/volume
EF	:	Ejection fraction
ET	:	Ejection time
FAC	:	Fractional Area Change
FEV	:	Forced expiratory volume
FEV₁	:	Forced expiratory volume in one second
FS	:	Fractional shortening
FVC	:	Forced vital capacity
HOI	:	Hangout interval
IL	:	Interleukin
IVC	:	Inferior vena cava
IVCT	:	Interventricular contraction time
IVRT	:	Interventricular relaxing time
Kg	:	Kilogram
LA	:	Left atrium
LV	:	Left ventricle
m²	:	Meter ²
Max PV	:	Maximum pressure – volume ratio
MB	:	Moderator band
mm	:	Millimeter
MPI	:	Myocardial performance index
MRI	:	Magnetic resonance imaging
ms	:	Milli second
PA	:	Pulmonary artery
P-A	:	Posteroanterior
PAP	:	Pulmonary artery pressure
PEP	:	Pre ejection time
PHT	:	Pulmonary hypertension
PT	:	Pulmonary trunk

PVR	:	Pulmonary vascular resistance
pw	:	Pulsed wave
RA	:	Right atrium
RAP	:	Right atrial pressure
RIMP	:	Right ventricle index of myocardial performance
RV	:	Right ventricle
RVE	:	Right ventricular enlargement
RVEF	:	Right ventricle ejection fraction
RVET	:	Right ventricle ejection time
RVOT	:	Right ventricle outflow tract
RVP	:	Right ventricular pressure
RVPI	:	Right ventricular performance index
RVS	:	Right ventricular systolic excursion
S	:	Strain
s	:	Second
SABA	:	Short-Acting Beta-Agonist
SD	:	Standard deviation
SMT	:	Septomarginal trabeculation
SR	:	Strain rate
TAPSE	:	Tricuspid annulus plane septal excursion
TDE	:	Tissue Doppler echocardiography
TDI	:	Tissue Doppler imaging
TNF	:	Tumor necrosis factor
TNF-a	:	Tumor necrosis factor-alpha
TR	:	Tricuspid regurge
TV	:	Tricuspid valve
U.S	:	United state
UK	:	United kingdom
VIF	:	Ventriculoinfandibular fold
VTR	:	Velocity of tricuspid regurgitant