AIUM Image Library: Fetal Echocardiography

The American Institute of Ultrasound in Medicine thanks GE for providing equipment used to obtain some of the images within this document. We appreciate their commitment and generous support for ultrasound education.
Second Trimester
Cardiac Apex Position
Second Trimester

Situs: Breech Presentation
Second Trimester

Situs: Cephalic Presentation

AO = aorta
LA = left atrium
LV = left ventricle
MV = mitral valve
RA = right atrium
RV = right ventricle
SP = spine
TV = tricuspid valve
Second Trimester
M-Mode
Second Trimester
Left Ventricular Outflow Tract (LVOT)
Second trimester

Right Ventricular Outflow Tract (RVOT)
Second trimester
Right Ventricular Outflow Tract

RVOT = right ventricular outflow tract
Second trimester

Outflow Tracts: *Short Axis View*
Second Trimester 3 Vessel Views

Ductal Arch View

3 Vessel & Trachea View

AO = aorta
PA = pulmonary artery
SVC = superior vena cava
LPA = left pulmonary artery
RPA = right pulmonary artery

3 Vessel View
Second Trimester

3 Vessel & Trachea (3VT) View

PA = pulmonary artery
AO = aorta
SVC = superior vena cava
Third Trimester

3 Vessel & Trachea (3VT) View
Second Trimester

Pulmonary Veins (PV)
Second Trimester
Aortic Arch
Second Trimester
Ductal Arch
Second Trimester
Ventricles: *Short Axis View*

LV = left ventricle
RV = right ventricle
Second Trimester
Superior & Inferior Vena Cava

IVC = inferior vena cava
RA = right atrium
SVC = superior vena cava
Second Trimester
Color Doppler

IVC = inferior vena cava
SVC = superior vena cava
Third Trimester
Pulmonary Veins
Second Trimester

Foramen Ovale
Second Trimester
Foramen Ovale
Second Trimester

Atrioventricular Valves: Color Doppler

MV = mitral valve
TV = tricuspid valve
Second Trimester
Interventricular Septum
Second Trimester

Semilunar Valves: *Color Doppler*

LVOT = left ventricular outflow tract
RVOT = right ventricular outflow tract
Second Trimester

Branching of the Pulmonary Arteries

LPA = left pulmonary artery
RPA = right pulmonary artery
Second Trimester
Ductal Arch
Second Trimester
Aortic Arch
23 week gestation

Atrioventricular valves: *Pulsed Doppler*
Second Trimester
Pulmonary Valve: *Pulsed Doppler*
Second Trimester

Aortic Valve: *Pulsed Doppler*
Second Trimester

Ductus Venosus: Pulsed Doppler
Second Trimester
Aortic Annulus
Measurement in Systole

AO = aorta
Second Trimester

Pulmonary Artery Measurement in Systole

PA = pulmonary artery
Second Trimester

Atrioventricular Valve Annulus: Measurement in Diastole
Second Trimester
Ventricular Lengths
Second Trimester
Aortic Arch, Isthmus, Ductus Arteriosus
Diameter Measurements
Second Trimester

Main Pulmonary Artery

*Diameter Measurement*

MPA = main pulmonary artery
Third Trimester

Ventricular Diameters
Second Trimester

Ventricular Free Wall Thickness
Second Trimester
Interventricular Septum Thickness

IVS = interventricular septum
Third Trimester
Cardiothoracic Ratio

Card-circ = cardiac circumference
Th-circ = thoracic circumference
Third Trimester
Systolic Dimensions of the Ventricles
Second Trimester

Transverse Dimensions of the Atria
Third Trimester
Foramen Ovale

FO = foramen ovale
Third Trimester

Location for Measurement of Branch Pulmonary Arteries