

The 2 Minute Fetal Heart Study

Screening for Normal ♥s

Basic Stuff	<i>What to look for:</i>	Y	N
Placental Position	Anterior and in the way? Fibroids? Previa? Lakes? AVM?		
Fetal Lie	VERTEX, BREECH, TRANSVERSE, VARIABLE		
Fetal Movement	Breathing? Hiccups? Kicking?		
Amniotic Fluid	NORMAL (OR TO MUCH OR TOO LITTLE!)		
Image Quality	Increased BMI? Sub-cutaneous scarring? Off the wall kid?		

Basic ♥ Stuff	<i>What to look for:</i>		
Position	Stomach and Heart on the Same Side? Heart Axis at 45° <i>left</i> of the Sternum to Spine axis?		
Size	Can fit 3 Fetal Hearts in the Fetal Chest?		
Function	Both Ventricles the Same Size and Squeeze <i>equally</i> ?		
Rhythm	So Regular you could <i>Dance</i> to it!		

4 Chambers	RV has the Moderator Band LV goes to the apex and is V shaped LA has Pulmonary Veins and Flap of Atrial Septum RA is has the Large Appendage		
4 Valves	TV slightly > MV; Pul V slightly > Ao V		
4 Vessels	Ascending Aorta aims toward the Right Shoulder; MPA aims to the DA toward the Left Shoulder (PA crosses over the AO); SVC and IVC come from posterior anterior to attach to the RA		
PROPORTION	RA approximately = LA in Volume; RV approximately = LV in Volume Pulmonary Valve Annulus ~ = Aortic Valve Annulus (OK to have right sided structures <i>slightly</i> > left sided structures)		

LVOT	LV Long Axis from the 4 Chamber View		
RVOT	RV Long Axis from the 4 Chamber View		
Aortic Arch	Centrally arising narrow arch in the Sagittal View (the aortic arch more cephalad than the ductal arch)		
Ductal Arch	Anteriorly arising wide arch in the Sagittal View		
Aortic Arch	Aortic Arch vessels aim up - Cephalad		
Ductal Arch	Pulmonary Vessels including the DA aim down - Caudad		

M-Mode	Reference line through both ventricles perpendicular to the IVS (Both ventricles appear to be squeezing equally)		
MCA Doppler	PI > 1.5, PSV < 50 cm/sec (less than 32 wks gestation)		
UA Doppler	PI < 1.75 (MCA/UV Doppler PIs always > 1.0 after 18 weeks)		
DV Doppler	PI < 1.0 after 18 weeks gestation		

Questions & Comments _____