



# Case Study Submission Requirements: Fetal Echocardiography

From the <u>main site</u>	From <u>each additional site</u> or <u>mobile unit</u> :
<p>Submit a total of <b>3 NORMAL</b> fetal echo cases showing ALL components in the <a href="#">practice parameters</a> with their corresponding final reports as outlined below:</p> <ul style="list-style-type: none"><li>• <b>ALL</b> anatomic structures or designated views must be labeled (e.g. 4 chamber view, 3V-trachea view, short axis ventricles, etc.)</li><li>• <b>ALL</b> required items listed under <i>Gray Scale Imaging</i> and <i>Color Doppler Ultrasound</i> in the practice parameters must be demonstrated and labeled.</li><li>• <i>Pulsed Doppler Ultrasound</i>: evaluation of the atrioventricular valves, semilunar valves, pulmonary veins, and the ductus venosus is required.</li><li>• <i>Heart Rate and Rhythm Assessment</i>: M-mode evaluation of heart rate demonstrating the atria, ventricles, and their relationship to each other is required.</li><li>• <i>Cardiac Biometry</i>:<ul style="list-style-type: none"><li>➢ <b>Biometry of the four cardiac valves is now required.</b></li><li>➢ Additionally, for the purpose of accreditation, <b>cardiac biometry of the following components must also be demonstrated and labeled in at least ONE of your NORMAL case submissions</b>: the ventricular lengths, outflow tracts including the branch pulmonary arteries, atria and ventricular dimensions and cardiothoracic ratio. (See page 2 for imaging checklist.)</li></ul></li><li>• <i>Video Clips</i>: <b>In addition to the still images, the following clips are required (keep clips short and do not send extra videos for review)</b>:<ul style="list-style-type: none"><li>➢ One comprehensive clip (or 4 separate clips) of an axial sweep from stomach to 3VTV demonstrating 1.) situs, 2.) atrioventricular junction, 3.) ventriculoarterial junction, 4.) 3VV and 3VTV.</li></ul></li></ul>	<p>Submit <b>1 NORMAL</b> fetal echo case with its corresponding final report:</p> <p>➔ Refer to the description for a NORMAL case submission as described for the main site.</p> <p><b>And, from any site</b></p> <p>Submit <b>1 ABNORMAL</b> fetal echo study containing a major structural congenital heart defect involving one of the 4 chambers and/or outflow tracts (e.g. HLHS, ToF, TGA, AV Canal, Ebstein anomaly, etc.) with its corresponding final report:</p> <ul style="list-style-type: none"><li>• <b>For the purpose of accreditation, the following ARE NOT considered to be major structural anomalies</b>: <i>isolated arrhythmia, isolated VSD (or ASD), echogenic intracardiac focus, isolated pericardial effusion.</i></li><li>• <i>Video Clips</i>: <b>In addition to the still images, the following clips are required (keep clips short and do not send extra videos for review)</b>:<ul style="list-style-type: none"><li>➢ One comprehensive clip (or 4 separate clips) of an axial sweep from stomach to 3VTV demonstrating 1.) situs, 2.) atrioventricular junction, 3.) ventriculoarterial junction, 4.) 3VV and 3VTV.</li><li>➢ Additional video clips of any salient features (positive and negative) of the cardiac pathology contributory in determining the final diagnosis.</li></ul></li></ul>
<p><b>Additional Notes:</b></p> <ul style="list-style-type: none"><li>• <b>DO NOT SEND an unedited video of the entire exam.</b> If your practice only stores video (and not 2D images) or if you find your cases or video files exceed 50 MB each, contact us at <a href="mailto:accreditation@aium.org">accreditation@aium.org</a> for assistance.</li><li>• All anatomy must be appropriately labeled (for example – SAX OUTFLOW).</li><li>• All cases must follow the <a href="#">General Requirements for the Submission of Case Studies</a>.</li></ul>	

# Fetal Echocardiography Imaging Checklist

- **All cases must include a finalized corresponding report.** For reporting criteria, refer to the [Documentation Practice Parameter](#).
- For the purpose of accreditation, all anatomy must be appropriately labeled (for example – SAX OUTFLOW).
- For abnormal submissions (i.e. AVSD, HLHS, TGA, ToF), you may contact us at [accreditation@aium.org](mailto:accreditation@aium.org), if needed.

## Normal Fetal Echo

**Video Clips (required)** – may be submitted as a single comprehensive clip of an axial sweep from stomach to 3VTV, or as 4 separate clips as listed below:

- 1. Short, labeled **video clip** of visceral / abdominal situs
- 2. Short, labeled **video clip** of atrioventricular junction
- 3. Short, labeled **video clip** of ventriculoarterial junction between the ventricles and the great arteries
- 4. Short, labeled **video clip** of the 3VV and 3VTV

### Labeled, still images of the following:

- 5. Four chamber
- 6. Left ventricular outflow tract
- 7. Right ventricular outflow tract
- 8. Branch pulmonary artery bifurcation
- 9. Three-vessel and trachea
- 10. Short axis views of ventricles
- 11. Short axis views of outflow tracts
- 12. Aortic arch (sagittal view)
- 13. Ductal arch (sagittal view)
- 14. SVC and IVC entering RA (bicaval view)

### M-Mode

- 15. M-mode assessment of rhythm

### Doppler

- 16. Color **and** spectral Doppler of the pulmonary veins
- 17. Color Doppler of the foramen ovale
- 18. Color **and** spectral Doppler of the tricuspid valve
- 19. Color **and** spectral Doppler of the mitral valve
- 20. Color **and** spectral Doppler of the pulmonary valve
- 21. Color **and** spectral Doppler of the aortic valve
- 22. Color Doppler of the aortic arch
- 23. Color Doppler of the ductal arch
- 24. Color Doppler of the SVC and IVC
- 25. Color **and** spectral Doppler of the ductus venosus

**Cardiac Biometry – 26, 27, 28 are REQUIRED. 29-38\*\* MUST also be demonstrated in at least ONE of your normal case submissions.**

- 26. Aortic artery diameter at the level of the valve annulus in systole **(REQUIRED)**
- 27. Pulmonary artery diameter at the level of the valve annulus in systole **(REQUIRED)**
- 28. Dimensions of tricuspid and mitral valve annulus in diastole **(REQUIRED)**
- 29. Aortic and/or isthmus diameter\*\*
- 30. Main pulmonary artery and/or ductus arteriosus diameter\*\*
- 31. Right and left ventricular lengths\*\*
- 32. End-diastolic ventricular dimensions just inferior to the AV valve leaflets\*\*
- 33. Thickness of ventricular free walls\*\*
- 34. Interventricular septum just inferior to the AV valves\*\*
- 35. Systolic dimensions of the ventricles\*\*
- 36. Transverse diameters of the atria\*\*
- 37. Diameter of the branch pulmonary arteries\*\*
- 38. Cardiothoracic ratio\*\*