**Case Study Submission Requirements:**

**Fetal Echocardiography**

<table>
<thead>
<tr>
<th>From the main site</th>
<th>From each additional site or mobile unit:</th>
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</thead>
<tbody>
<tr>
<td>Submit a total of <strong>3 NORMAL</strong> fetal echo cases showing ALL components in the practice parameters with their corresponding final reports as outlined below:</td>
<td>Submit <strong>1 NORMAL</strong> fetal echo case with its corresponding final report:</td>
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<td>▪ <strong>ALL</strong> anatomic structures or designated views must be labeled (e.g. 4 chamber view, 3V-trachea view, short axis ventricles, etc.)</td>
<td>The case must show ALL components listed in the practice parameters. Refer to the NORMAL case requirements as described for the main site.</td>
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<td>▪ <strong>ALL</strong> listed required items in section C (Gray Scale Imaging) and D (Color Doppler Sonography) of the parameters must be demonstrated and labeled.</td>
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<td>▪ In section D, Pulsed Doppler evaluation is required of the Atrioventricular valves, Semilunar valves, and Ductus Venosus.</td>
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<td>▪ M-mode evaluation of heart rate demonstrating the atria, ventricles, and their relationship to each other is required.</td>
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<td>▪ <strong>ALL</strong> listed components in section F (Cardiac Biometry) MUST be demonstrated and labeled in ONE of your NORMAL case submissions.**</td>
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<tr>
<td>These include biometry as stipulated of the four cardiac valves, the ventricular lengths, outflow tracts including the branch pulmonary arteries, atria and ventricular dimensions and cardiothoracic ratio. See page 2 for imaging checklist.</td>
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<td>▪ In addition to the still images, below are the REQUIRED VIDEO CLIPS (keep clips short and <strong>do not send extra videos for review</strong>):</td>
<td></td>
</tr>
<tr>
<td>1. Demonstrating situs</td>
<td></td>
</tr>
<tr>
<td>2. Atrioventricular junction</td>
<td></td>
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<tr>
<td>3. Ventriculoarterial junction</td>
<td></td>
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<td>And, from any site</td>
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<td>Submit <strong>1 ABNORMAL</strong> 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:</td>
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<tr>
<td>▪ <strong>For the purpose of accreditation, the following <strong>ARE NOT</strong> considered to be major structural anomalies</strong>: isolated arrhythmia, isolated VSD (or ASD), echogenic intracardiac focus, isolated pericardial effusion.</td>
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<td>4. Any salient features (positive and negative) of the cardiac pathology contributory in determining the final diagnosis</td>
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</table>

**Additional Notes:**

- **DO NOT SEND** an unedited video of the entire exam. 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 accreditation@aium.org for assistance.
- **"Although the Fetal Echo Practice Parameters state cardiac biometry is “optional”, for the purpose of accreditation, cardiac biometry is required for at least ONE of your NORMAL FE case studies.**
- All anatomy must be appropriately labeled (for example – SAX OUTFLOW).
- All cases must follow the General Requirements for the Submission of Case Studies.
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, if needed.

### Normal Fetal Echo

#### Video Clips *(required)*

- □ 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

#### Labeled, still images of the following:

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

#### M-Mode

- □ 13. M-mode assessment of rhythm

#### Doppler

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

#### Cardiac Biometry *(required in one of your normal case submissions)*

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