

Supplementary material

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Supplementary Table. Minimum and optional requirements for mid-trimester fetal anatomic surveys as recommended by the American Institute of Ultrasound in Medicine (AIUM), Australasian Society for Ultrasound in Medicine (ASUM), Asia and Oceania Federation of Obstetrics and Gynaecology (AOFOG), and International Society of Ultrasound in Obstetrics and Gynecology (ISUOG) guidelines

| | Basic survey, 2011 ISUOG guidelines¹ | Basic survey, 2022 ISUOG guidelines^{2*} | Basic survey, 2015 AOFOG guidelines^{3*} | Standard survey, 2018 ASUM guidelines^{4*} | Standard survey, 2019 AIUM guidelines^{5*} | Detailed survey, 2019 AIUM guidelines^{5†} |
|---------------|--|---|---|---|---|--|
| Head and neck | Shape, density, lateral ventricle, CSP, CP, CM, cerebellum | Midline falx, thalami | Midline falx, thalami, NF‡ | Midline falx, CV, NF | N/A | BP, CC, CV, CRV, LVW, third and fourth ventricles, NF, neck |
| Face | Lips, median facial profile,‡ orbits,‡ N&N‡ | Both orbits/eyes, nasal bone‡ | Mouth‡ | Nose, jaw, nasal bone, profile | N/A | Palate, tongue, ears, inner and outer OD |
| Thorax | Diaphragm | Lungs | Shape and size | N/A | N/A | Ribs |
| Heart | Size, axis, four chambers, AVV, septum, LVOT,‡ RVOT‡ | Left chamber on left side, LVOT, RVOT, 3VV/3VTV | 3VTV‡ | FO, MV, TV, LVOT, RVOT, AoA or 3VV | LVOT, RVOT, 3VV/3VTV‡ | AoA, ductal arch, SVC, IVC, 3VV, 3VTV |
| Abdomen | Stomach, bowel, kidneys, UB, CI, cord vessels‡ | Gallbladder,‡ genitalia (normal or not)‡ | Gallbladder,‡ genitalia‡ | Cord vessels | Cord vessels, external genitalia [§] | Small and large bowel, AG, liver, spleen, RA, conus medullaris |
| Spine | Spine | N/A | N/A | N/A | N/A | N/A |
| Limbs | Both arms/hands and legs/feet | N/A | N/A | Fingers/toes | N/A | Digits |

Abbreviations: 3VTV = three-vessel and trachea view; 3VV = three-vessel view; AG = adrenal gland; AoA = aortic arch; AVV = atrial-ventricular valves; BP = brain parenchyma; CC = corpus callosum; CI = cord insertion; CM = cisterna magnum; CP = choroid plexus; CRV = cranial vault; CSP = cavum septum pellucidum; CV = cerebellar vermis; FO = foramen ovale; IVC = inferior vena cava; LVOT = left ventricular outflow tract; LVW = lateral ventricular wall; MV = mitral valve; N/A = not available; N&N = nose and nostrils; NF = nuchal fold thickness; OD = orbital diameter; RA = renal arteries; RVOT = right ventricular outflow tract; SVC = superior vena cava; TV = tricuspid valve; UB = urinary bladder

* Fetal structures to be examined in addition to those listed in the 2011 ISUOG guidelines

† Fetal structures to be examined (if indicated) in addition to those listed in the 2022 ISUOG guidelines

‡ Optional examination (if technically feasible)

§ If medically indicated

References

1. Salomon LJ, Alfirevic Z, Berghella V, et al. Practice guidelines for performance of the routine mid-trimester fetal ultrasound scan. *Ultrasound Obstet Gynecol* 2011;37:116-26.
2. Salomon LJ, Alfirevic Z, Berghella V, et al. ISUOG Practice Guidelines (updated): performance of the routine mid-trimester fetal ultrasound scan. *Ultrasound Obstet Gynecol* 2022;59:840-56.
3. Leung KY, Poon CF, Teotico AR, et al. Recommendations on routine mid-trimester anomaly scan. *J Obstet Gynaecol Res* 2015;41:653-61.
4. Australasian Society for Ultrasound in Medicine. Guidelines for the performance of second (mid) trimester ultrasound. February 2018. Available from: <https://www.asum.com.au/files/public/SoP/curver/Obs-Gynae/Guidelines-for-the-Performance-of-Second-Mid-Trimester-Ultrasound.pdf>. Accessed 1 Mar 2023.
5. AIUM Practice Parameter for the performance of detailed second- and third-trimester diagnostic obstetric ultrasound examinations. *J Ultrasound Med* 2019;38:3093-100.