



Sonographer Scanning Cheat Sheet: US OB Level 1 Anatomy Scan

Procedure Overview: A level 1 anatomy ultrasound can be utilized to evaluate fetal anatomy, fetal growth, and maternal anatomy in pregnancies 18 to 22 weeks gestation.

Required Pre-Procedure Prep:

- Drink 32oz of clear liquids 1 hour prior to appointment and hold bladder.
- Obtain patient verbal consent.
- Obtain patient history including but not limited to symptoms, pregnancy history, and risk factors.
- Instruct patient to lie supine with the head slightly elevated.

Proper Probe: Curved array 2-5 MHz for transabdominal imaging and 5-9 MHz endovaginal probe for transvaginal imaging as needed

Protocol for OB Level 1 Anatomy Scan (CPT 76817, 76805)

****Document pathology with and without measurement in two planes, Sag and Trv measuring the length, height, & width. Be sure to also include images with and without color Doppler.**

Cine Clips should be taken to help prove pathology and provide context for Remote Radiologists when appropriate. Please be mindful of not taking too many cine clips, just show what's most important.

TRANSABDOMINAL MATERNAL IMAGES:

1. Long Uterus Mid
2. Long Uterus Right
3. Long Uterus Left
4. Long Right Adnexa (image ovary if visualized)
5. Long Left Adnexa (image ovary if visualized)
6. Trans LUS
7. Trans Uterus
8. Trans Right Adnexa (image ovary if visualized)
9. Trans Left Adnexa (image ovary if visualized)
10. Cervix
 - a. Long image with and without length measurement
 - b. Long color image at internal os, to evaluate for vasa previa
 - c. Long image to evaluate placental location in relation to internal os
 - d. If cervical length is less than 3.0cm, Long image with fundal pressure with and without length measurement
 - e. Complete above images with transvaginal approach if ordered and/or if medically necessary to visualize Cervix

TRANSABDOMINAL FETAL IMAGES

1. Fetal Presentation/Position
 - a. Long Midline Uterus
 - b. Long Midline Fundus
2. Amniotic Fluid Documentation
 - a. Long RLQ with measurement
 - b. Long RUQ with measurement



- c. Long LUQ with measurement
 - d. Long LLQ with measurement
- 3. Maximum Vertical Pocket
 - a. The deepest of the 4 quadrants can be used for MVP, unless the AFI is low; then, a separate MVP should be measured. If low AFI, search for the largest pocket of fluid-can be midline.
- 4. Placenta
 - a. Long Placenta
 - b. Trans Placenta
- 5. Fetal Measurements (three of each)
 - a. Biparietal Diameter (BPD)
 - b. Head Circumference (HC)
 - c. Abdominal Circumference (AC)
 - d. Femur Length (FL)
- 6. Heart (size, position, and situs)
 - a. 4 chamber heart (4CH)
 - b. Fetal Heart Rate in M-mode measuring beats per minute
 - c. Right Ventricular Outflow Tract (RVOT)
 - d. Left Ventricular Outflow Tract (LVOT)
- 7. Head Anatomy
 - a. Midline Falx
 - b. Cavum Septum Pellucidum (CSP)
 - c. Cerebral Ventricles
 - d. Lateral Ventricles with and without diameter measurement
 - e. Cerebellum with and without diameter measurement
 - f. Cisterna Magna with and without diameter measurement
 - g. Nuchal Fold (if between 18-22 weeks gestation) with and without diameter measurement
- 8. Face
 - a. Nose and lips tangential coronal image
 - b. Profile long including nasal bones
 - c. Orbits
 - d. Palate
- 9. Abdominal Anatomy
 - a. Stomach (presence, size, and situs)
 - i. Long or Trans image
 - b. Right Kidney
 - i. Long or Coronal image
 - ii. Trans image
 - c. Left Kidney
 - i. Long or coronal image
 - ii. Trans image
 - d. Umbilical cord insertion into fetal abdomen
 - i. Trans image
 - e. Umbilical cord vessel number (3VC)
 - i. Trans image and color image
 - f. Urinary Bladder
 - i. Long or Trans image
 - g. Diaphragm

10. Spine
 - a. Cervical Spine
 - i. Long image
 - ii. Trans image
 - b. Thoracic Spine
 - i. Long image
 - ii. Trans image
 - c. Lumbar Spine
 - i. Long image
 - ii. Trans image
 - d. Sacral Spine
 - i. Long image
 - ii. Trans image
11. Extremities (presence of arms and legs)
 - a. Humerus 1
 - b. Humerus 2
 - c. Radius/Ulna 1
 - d. Radius/Ulna 2
 - e. Femur 1
 - f. Femur 2
 - g. Tibia/Fibula 1
 - h. Tibia/Fibula 2

*****Report any findings on your Comment section in the Report page on the machine using proper sonographic terminology.***

Anatomy	Normal Measurements
Fetal Heart Rate	110-160 bpm
AFI	8-18 cm
MVP	>2 cm
BPD, HC, AC, FL	Based on GA, reference OB chart
Lateral Ventricle Diameter	<10 mm
Cerebellum	16-27 mm
Cisterna Magna	2-10 mm
Nuchal Fold	<6 mm
Cervix	>3cm