

Ultrasound Protocol

General Setup for all Ultrasounds

- 1) Have patient drink 36 oz. fluid
 - 2) Enter client name, birth date and last menstrual period
 - 3) Inform client that you will take images before showing her the baby
 - 4) Apply gel and demonstrate in SAG midline plane, bladder, vaginal canal, cervix uterus and gestational sac. Use this image to optimize Image by adjusting focal zone, gain and depth
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Protocol 4- 6 Weeks Gestational Age

- 1) Image and label Sag ML showing bladder, Vaginal canal, uterus and GS
- 2) In SAG, sweep to R & L to verify an IUP.
- 3) TRANS, sweep inferior to superior to demonstrate vaginal canal w/ stripe, continue to sweep until out of fundus. Image and label TRANS
- 4) Magnify and zoom uterus to demonstrate GS, CRL and Yolk Sac
- 5) Demonstrate heart rhythm through line & Doppler. Measure beats per minute (end where you start
- 6) From 4-6 weeks GA Measure largest diameter of GS. Measure GS Note: If the gestational sac measures 2.5cm in diameter you should see a fetus with a cardiac motion (1mm per day is normal)

Protocol 7-12 Weeks Gestational Age

- 1) Same as steps 1-5
- 2) From 7-12 GA weeks: Measure crown rump (head to rump) to exclude yolk sac. Do not measure GS after 7 weeks or when you can obtain a clear CRL.

Protocol 2nd Trimester

- 1) Image and label showing sagittal midline, vaginal canal, cervix and lower uterine segment.
- 2) Image and label sagittal midline of upper uterus demonstrating the fundus of uterus, sections of fetus and placenta
- 3) Find the fetal lie by connecting the head, neck and body. Observe where head, spine and arms are by the transducer orientation. Place the fetal model on the mother demonstrating the fetal lie.
- 4) Turn transducer 90% to the fetal lie and move the fetal head
- 5) From 13 -15 GA weeks: Measure BPD at the area of the flax and thalami, with calipers placed at outer to inner surface of skull table Perpendicular to the flax line. Using same image measure the HC from outer to outer, position and adjust ellipse.

- 6) Scan down the fetal body and demonstrate heartbeat. Activate the B/M button. Put cursor through the center of the heart and wait until you see a readable M-mode tracing. Freeze. Take Heartbeat measurement as indicated on your system.
- 7) Scan inferior to the fetus looking for a section of the femur bone. Turn transducer along the femur bone until you can see the complete femur. Freeze and measure.

Images for Radiologist:

SAG/ML of uterus, TRANS of uterus, Heartbeat, Fetal Lie, Parameter for Gestational age

Print Report

Give cute baby pictures and heartbeat picture to Mom.