Personal Ultrasonic Equipment (US-304)

Online - OB Use Manual

1. Activation of the personal ultrasound probe

1. Connect the ultrasound probe (US-304) to the USB port on the Amazon Fire.
2. Launch the application.
3. Make sure you are connected to the Internet.
4. Launch Zoom.
5. Confirm that the supervising physician is participating in Zoom.
6. Share the US304 viewer screen.

2. Ultrasound examination

1. Estimated fetal body weight, fetal heart screening (four chamber view, three vessel view, left ventricular outflow tract), four extremities, head, chest, abdomen, amnion, placenta).
2. Confirm that the data is saved.
3. Exit the application.
4. Disconnect the USB port.

Fetal Measurement Procedure

1. Ensure that four extremities are visible.
2. Examine the transverse section of the fetal head. (Provide a section in which the thalamus is clearly visible and symmetrical)
3. Check the cerebrum, cavity of the septum pellucidum, cerebellum, thalamus, and lateral ventricles.
4. Rotate the probe 90 degrees and check the face.
5. Provide the transverse section of the chest to check the lungs and heart.
6. In the transverse section of the upper abdomen, confirm that the gastric bubble is on the right side.
7. Examine the pelvis and check for the presence of kidneys, a bladder, and abdominal cysts.
8. Examine the external genitalia between the legs on the foot of the bladder to confirm the sex.
9. Measure the abdominal circumference in the section of the upper abdomen where the gastric bubble is visible and where it appears to be the smallest.
10. Measure the length of the femur.

Check the heart

- Check the balance of the four lumens at the four-chamber view.
- Shift the probe to the head direction and check the balance of the superior vena cava (V), aorta (A), and main pulmonary artery (P) at the three-vessel view (V<A<P).

Check placenta and amniotic fluid

- Check the thickness (< 5 cm) and the position of the placenta (the presence of placenta previa).
- Measure maximal vertical pocket (MVP) and evaluate amniotic fluid volume.