

## Midwife Sonography Examination Guide for Image (Case) Submission

**Step 1. Before beginning the case submission process, please ensure that all images (cases) meet the following requirements:**

- The image complies with the Health Insurance Portability and Accountability Act (HIPAA).
- The appropriate anatomy is demonstrated.
- M-mode was used to obtain the fetal heart rate. Doppler should not be used.
- All images are appropriately annotated.

**Step 2. The overall image is acceptable for clinical decision making based on the following:**

- The image gain is appropriate for interpretation and clinical decision making.
- There is sufficient differentiation of image components; landmarks are demonstrated.
- The depth is appropriately set to clearly demonstrate all anatomical landmarks needed in the image. Key element: area of interest does not occupy less than 50% of the vertical display window.
- The focal zone placement is appropriate allowing for optimal visualization of the area of interest and surrounding structures. Key element: focal zone positioned at the level or just below the area of interest.

Midwife Sonography Examination Case Outline
<b>GYN</b>
<b>Sagittal image of uterus with measurements</b>
Is the gain, depth and focal zone optimized to allow demonstration of myometrial and endometrial tissue differentiation?
Is the depth of the uterus (anteroposterior dimension) measured in the same sagittal view from its anterior to posterior walls perpendicular to the length?
Does the uterine length measurement include the sagittal uterus and cervix to the external os?
<b>Transverse image of uterus with measurements</b>
Is the gain, depth and focal zone optimized to allow demonstration of myometrial and endometrial tissue differentiation?
Is the maximum width measured in the transverse or coronal view?
<b>Anteroposterior (sagittal plane) image of endometrium with measurement</b>
Is the thickest portion of the endometrium measured perpendicular to its longitudinal plane from echogenic to echogenic border?
Are the adjacent hypoechoic myometrium and fluid in the cavity excluded? (if applicable)
<b>Sagittal image of right ovary with measurements</b>
Is the maximum ovarian length and depth measured?
<b>Transverse image of right ovary with measurements</b>
Is the maximum ovarian width measured?
<b>Sagittal image of left ovary with measurements</b>
Is the maximum ovarian length and depth measured?
<b>Transverse image of left ovary with measurements</b>
Is the maximum ovarian width measured?
<b>One image of right adnexum to include iliac vessels</b>
Is the right adnexal region including iliac vessels demonstrated?
<b>One image of left adnexum to include iliac vessels</b>
Is the left adnexal region including iliac vessels demonstrated?
<b>1st Trimester</b>
<b>Sagittal image of gestational sac demonstrating position in uterus and fetal number</b>
Is the position of the gestational sac within the uterus demonstrated?
<b>Transverse image of gestational sac demonstrating position in uterus and fetal number</b>
Is the position of the gestational sac within the uterus demonstrated?
<b>Yolk sac with measurement</b>
Is the yolk sac demonstrated and measured?
<b>Embryo/fetus demonstrated and crown rump length measurement (Image 1)</b>

Midwife Sonography Examination Case Outline	
Is the crown-rump length measurement recorded?	
<b>Embryo/fetus demonstrated and crown rump length measurement (Image 2)</b>	
Is the crown-rump length measurement recorded?	
<b>Demonstration of cardiac activity with measurement (M-mode image)</b>	
Is the fetal heart rate documented and measured with M-mode?	
<b>One image of right adnexum to include ovary when applicable</b>	
Is the right adnexal region demonstrated?	
<b>One image of left adnexum to include ovary when applicable</b>	
Is the left adnexal region demonstrated?	
2nd Trimester	
<b>Measurement of cervical length</b>	
Does the sagittal measurement include internal and external os?	
<b>Sagittal image of the placental edge: image should demonstrate relationship from the placental edge to the internal os</b>	
Is the location of lower edge of placenta in relationship to internal os clearly demonstrated including a measurement from the placental edge to the internal os?	
<b>Sagittal image of placental location</b>	
Is the location of placenta demonstrated?	
Does the annotation on the image reflect the placenta is fundal? (if applicable)	
<b>Biparietal diameter and head circumference (BPD &amp; HC) both measurements must be on same image</b>	
Are the thalamus, falx and cavum septum pellucidum present?	
Is the head circumference measured on the outer edge of the skull?	
Is the bi-parietal diameter measured on the outer to inner skull?	
<b>Abdominal circumference (AC)</b>	
Is the Abdominal circumference measured at the skin line on a transverse view at the level of the right and left portal veins?	
Is the fetal stomach demonstrated?	
<b>Femur length (FL)</b>	
Does the measurement exclude distal epiphysis?	
Is the most anteriorly located femur measured?	
<b>Demonstration of cardiac activity with measurement (M-mode image)</b>	
Is the fetal heart rate documented and measured with M-mode?	
3rd Trimester (1st patient)	
<b>Cervical length</b>	
Is the measurement from the external to the internal os?	
<b>Demonstration of fetal presentation and lie in relationship to cervix or maternal bladder</b>	
Is the fetal part closest to the cervix in a longitudinal view demonstrated?	
Is the image appropriately annotated? (breech, cephalic, vertex)	
<b>Sagittal image of the placental edge: image should demonstrate relationship from the placental edge to the internal os (if applicable)</b>	
Is the location of lower edge of placenta in relationship to internal os demonstrated? Include a measurement from the placental edge to the internal os, when possible. Otherwise demonstrate the lower edge of the placenta or demonstrate the internal os of the cervix.	
<b>Sagittal image of placental location</b>	
Is the location of placenta demonstrated?	
<b>Biparietal diameter and head circumference (BPD &amp; HC) both measurements must be on same image</b>	
Are the thalamus, falx and cavum septum pellucidum present?	
Is the head circumference measured on the outer edge of the skull?	
Is the bi-parietal diameter measured from the outer to inner skull?	
<b>Abdominal circumference (AC)</b>	
Is the Abdominal circumference measured at the skin line on a transverse view at the level of the right and left portal veins?	
Is the fetal stomach demonstrated?	
<b>Femur length (FL)</b>	
Does the measurement exclude distal epiphysis?	

Midwife Sonography Examination Case Outline
Is the most anteriorly located femur measured?
<b>Demonstration of cardiac activity with measurement (M-mode image)</b>
Is the fetal heart rate documented and measured with M-mode?
<b>Amniotic fluid single deepest vertical pocket with measurement</b>
Is the single deepest vertical pocket measured?
<b>3rd Trimester ( 2nd Patient)</b>
<b>Cervical length</b>
Is the measurement from the external to the internal os?
<b>Demonstration of fetal presentation and lie in relationship to cervix or maternal bladder</b>
Is the fetal part closest to the cervix in a longitudinal view demonstrated?
Is the image appropriately annotated? (breech, cephalic, vertex)
<b>Sagittal image of the placental edge: image should demonstrate relationship from the placental edge to the internal os ( if applicable)</b>
Is the location of lower edge of placenta in relationship to internal os demonstrated? Include a measurement from the placental edge to the internal os, when possible. Otherwise demonstrate the lower edge of the placenta or demonstrate the internal os of the cervix.
<b>Sagittal image of placental location</b>
Is the location of placenta demonstrated?
<b>Biparietal diameter and head circumference (BPD &amp; HC) both measurements must be on same image</b>
Are the thalamus, falx and cavum septum pellucidum present?
Is the head circumference measured on the outer edge of the skull?
Is the bi-parietal diameter measured from the outer to inner skull?
<b>Abdominal circumference (AC)</b>
Is the Abdominal circumference measured at the skin line on a transverse view at the level of the right and left portal veins?
Is the fetal stomach demonstrated?
<b>Femur length (FL)</b>
Does the measurement exclude distal epiphysis?
Is the most anteriorly located femur measured?
<b>Demonstration of cardiac activity with measurement (M-mode image)</b>
Is the fetal heart rate documented and measured with M-mode?
<b>Amniotic fluid single deepest vertical pocket with measurement</b>
Is the single deepest vertical pocket measured?