

**Certificate in Allied Health Performed Ultrasound
(CAHPU)
Syllabus**

**Basic Monitoring the Fetus
(2nd and 3rd Trimester)**

CAHPU Basic Monitoring the Fetus (2nd and 3rd Trimester) Syllabus

Purpose:

This unit is designed to cover the theoretical and practical curriculum for monitoring the fetus in the 2nd and 3rd trimesters of pregnancy.

Prerequisites:

Learners should have completed the ASUM CAHPU Physics Image Optimisation unit or accredited equivalent. This unit is suited to midwives.

Training:

Recognised either through attendance at an ASUM accredited Basic Monitoring the Fetus unit or equivalent.

Assessments:

Learners are required to provide evidence of satisfactory completion of training sessions, supervised ultrasound scans and documentation in a logbook.

Unit Objectives

On completing this unit learners should be able to:

- Recognise the presence/absence of fetal heart
- Take an M-mode trace to measure beats per minute
- Recognise fetal lie
- Recognise fetal breathing, movement
- Measure the deepest pocket of amniotic fluid
- Recognise placental position
- Attain proficiency in image optimisation

Unit Content

Anatomy & Pathology (Theoretical knowledge only):

Understanding the normal anatomy of the mid-trimester fetus

Scanning techniques to enable assessment of:

- Fetal presentation:
 - Cephalic, breech, transverse
 - Direction of spine important for assessment

- Understand fetal breathing and body movements to establish fetal biophysical profile
- Heart
 - Be able to recognise heart motion
 - Measure heart rate with M-mode
- Biophysical assessment, including: Accurate observation of fetal tone, movement and breathing.
- Placental position:
 - With respect to the internal cervical os
 - Recognise placenta praevia/low lying placenta
- Liquor volume
- Measurement of the deepest pocket of amniotic fluid/DP measurement

Techniques, Physical Principles and Safety:

- Appropriate transducers, artifacts, windows, standard images, image optimisation in the context of 2nd and 3rd trimester scanning.

Teaching Methodologies

All training that include unit curriculum accredited toward the CAHPU will be conducted in the following manner:

- A pre-test shall be conducted at the commencement of the training which focuses learners on the main learning points
- Each basic monitoring the fetus unit shall comprise at least 6 hours of teaching time of which at least 3 hours shall be practical teaching. Stated times do not include the physics, artefacts and basic image optimization which should be provided if delegates are new to ultrasound.
- Learners will receive reference material covering the unit curriculum.
- The lectures presented should cover substantially the same material as contained in this curriculum document.
- An appropriately qualified clinician will be involved in both the development and delivery of the unit and training (they do not need to be present for the full duration the training).
- The live scanning sessions for this unit shall include sufficient pregnant patient models of varying gestation. If the latter are unavailable, there will be at least one image interpretation station with cineloops demonstrating appropriate images. For interventional procedures, appropriate phantoms may be used.
- A post-test will be conducted at the end of the training as formative assessment.

Assessment and Logbook

- Evidence of satisfactory completion of training sessions
- Evidence of assessment of competence (summative assessment) signed off by a suitably qualified assessor. The original completed competence assessment form is to be sent to ASUM with the candidate's completed log book.
- Logbook requirements need to be completed, and logbooks need to be submitted within two years of completing accredited unit training.

Formative Assessments

- 2 formative assessments (directly supervised with suggestions and advice provided during the scan)

Summative Assessment

- A summative assessment by a suitably qualified sonologist (DDU, FRANZCR, DMU, recertified CCPU holder, as well as recertified CCPU and CAHPU holders) is to be submitted with the logbook. A competence assessment template is attached.

Logbook Requirements

- Complete 25 examinations comprised of 2nd and/or 3rd trimester examinations within 2 years of completing the unit training. Findings must be documented with relevant images and validated by an appropriately qualified imaging specialist.
- Evidence of completion of logbook signed off by qualified assessor (DDU, radiologist, sonologist, AMS, CCPU)
- Summative assessment is to be performed by a suitably qualified assessor (see above) using the competence assessment form supplied at the end of this document (or equivalent if deemed sufficient by ASUM at their discretion).
- Those cases that involve a procedural component must be signed off by a suitable assessor who performs those procedures themselves.
- At the discretion of the ASUM CCPU Certification Board candidates may be allowed an alternative mechanism to meet this practical requirement.

ASUM CCPU Competence Assessment Form
Basic Monitoring the Fetus (2nd & 3rd Trimester)

Candidate: _____
 Assessor: _____
 Date: _____

Assessment type: Formative (feedback & teaching given during assessment for education)
 Summative (prompting allowed but teaching not given during assessment)

To pass the summative assessment, the candidate must pass all components listed

	Competent	Prompted	Fail
Prepare patient			
Position			
Informed			
Prepare Environment			
Lights dimmed if possible			
Probe & Preset Selection			
Can change transducer			
Selects appropriate transducer			
Selects appropriate preset			
Data Entry			
Enter patient details			
Image Acquisition			
Optimisation (depth, freq, focus, gain)			
<i>Identifies</i>			
Fetal presentation			
<i>Cephalic, breech, transverse</i>			
<i>Direction of spine</i>			
Measure heart rate			
Biophysical assessment			

Accurate observation of fetal tone, movement and breathing

Placental position with respect to internal cervical os

Recognise placenta praevia (if appropriate)

Liquor volume

Measurement of deepest pocket of amniotic fluid/DP measurement

Artefacts

Identifies & explains the basis of common artefacts

Competent Prompted Fail

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Record Keeping

Labels & stores appropriate images

Documents any pathology identified

Completes report

Each view adequate / inadequate

Describe findings briefly

Integrates ultrasound findings with clinical assessment and explains how the findings might change management

Machine Maintenance

Cleans / disinfects ultrasound probe

Stores machine and probes safely and correctly

For Formative Assessment Only:

Feedback of particularly good areas: _____

Agreed actions for development _____

Examiner Signature: _____ Candidate Signature: _____

Examiner Name: _____ Candidate Name: _____

Date: _____