

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

Syllabus

Follicle Tracking

Syllabus

Follicle Tracking

- Purpose:** This unit is designed to cover the theoretical and practical curriculum for the use of ultrasound for follicle tracking.
- Prerequisites:** Learners should have completed the ASUM Physics Image Optimisation unit or accredited equivalent course.
- Training:** Recognised either through attendance at an ASUM accredited follicle tracking ultrasound course or equivalent.
- Assessments:** Learners are required to provide evidence of satisfactory completion of training sessions, supervised ultrasound scans and documentation in a logbook.

Course Objectives

On completing this unit learners should be able to:

- Demonstrate a detailed understanding of the anatomical structure of the female pelvis, and cyclic changes observed during reproductive life. In particular the assessment of follicles within each ovary.
- Attain proficiency in image optimisation of the following in order to enable appropriate diagnosis:
 - Cervix
 - Uterus
 - Fallopian tube (often not visible on ultrasound unless abnormal)
 - Ovaries/follicles
 - Endometrium
 - Normal versus abnormal appearances of the ovaries and endometrium

Course Content

Anatomy and Pathology:

- Relational anatomy of adjacent organs and structures (uterus and ovaries)
- Recognise uterine position:
 - Anteverted/retroverted
- Recognise uterine malformations:
 - Bicornuate, subseptate etc.

- Recognise and correctly measure the endometrium (proliferative versus secretory)
- Ovarian follicular development
- Counting & measuring of follicles within each ovary
- Ovarian stimulation
- Recognise a corpus luteum
- Able to write a structured report or complete proforma report for follicle tracking

Pelvic Imaging:

- Perform a TA and TV assessment of the pelvis
- Identify, image and measure the endometrium in sagittal plane
- Image the ovary in transverse and sagittal planes
- Identify ovarian follicular development
- Measure largest follicles in 3 planes
- Recognise a corpus luteum
- Identify pelvic free fluid

Techniques, Physical Principles and Safety

Appropriate transducers, artefacts, windows, standard images, image optimisation in the context of a pelvic scan.

Limitations and Pitfalls

- Ovarian assessment of women with large BMI

Teaching Methodologies

All courses accredited toward the CAHPU will be conducted in the following manner:

- A pre-test shall be conducted at the commencement of the course which focuses learners on the main learning points.
- Each course shall comprise at least 10 hours of teaching time of which at least 6 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 course curriculum.
- The lectures presented should cover substantially the same material as the ones printed in this curriculum document.

- An appropriately qualified clinician will be involved in the development and delivery of the course (they do not need to be present for the full duration of the course).
- The live scanning sessions for this unit shall include sufficient live patient models to ensure that each candidate has the opportunity to scan. Models will include normal subjects and patients with appropriate pathologies. Given that it may be difficult to find subjects with sufficient pathology, it is appropriate to include a practical 'image interpretation' session in which candidates must interpret images of the relevant pathology. If the latter are unavailable, there will be at least one image interpretation station with cine loops demonstrating the appropriate pathology. For interventional procedures, appropriate phantoms may be used.
- A post-test will be conducted at the end of the course as formative assessment.

Assessment and Logbook Requirements

- Evidence of satisfactory completion of training sessions
- Evidence of assessment of competence (summative assessment) signed off by a suitably qualified assessor (possessing a CCPU in the relevant unit, DDU, FRANZCOG, FRANZCR, DMU or AMS, or be a sonographer registered by NZ MRTB in the relevant field). The original completed competence assessment form is to be sent to ASUM with the candidate's completed log book.

Formative Assessments

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

Summative Assessment

- 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).

Logbook Requirements

- Logbook requirements need to be completed, and logbooks need to be submitted within two years of completing a follicle tracking ultrasound course containing an accredited unit.
- Complete 50 follicle examinations including 5 abnormal ovaries (hyperstimulation, dermoids, endometriomas etc).

- Evidence that all cases (including all clinically-indicated cases) have been reviewed and signed off by a qualified clinician (see above).
- 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/CAHPU Certification Board candidates may be allowed an alternative mechanism to meet this practical requirement.

ASUM CAHPU COMPETENCE ASSESSMENT FORM FOLLICLE TRACKING ULTRASOUND

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			
Prepare Machine			
Correct position			
Probe & Preset Selection			
Can change transducer			
Selects appropriate transducer			
Selects appropriate preset			
Can change probe covers with condom and lubricates probe			
Aware latex free condoms are available			
Data Entry			
Enter patient details			
Image Optimisation			
Depth			
Frequency			
Focus (if required)			
Gain/TGC			
Transabdominal Scan			
Longitudinal View			
Technique			
Tilts probe down into pelvis			
Fans through pelvis from side to side			
Identifies			
Uterus in LS			
Position of uterus			

Endometrium
Cervix
Vagina
Bladder
Bowel
Ovaries
Follicles

Measures Endometrium follicles

--	--	--

Technique **Transverse View**
Fans through pelvis from inferior to superior

--	--	--

Identifies Uterus
Endometrium
Cervix
Vagina
Bladder
Bowel
Ovaries
Follicles

Transvaginal Scan

Technique **Longitudinal View**
Fans through pelvis from side to side

--	--	--

Identifies Vagina
Cervix
Uterus
Endometrium
Ovaries/follicles

Identifies **Transverse view**
Vagina
Cervix
Uterus
Ovaries/follicles
Bowel

For Formative Assessment Only:

Feedback of particularly good areas: _____

Agreed actions for development _____

Examiner Signature: _____ Candidate Signature: _____

Examiner Name: _____ Candidate Name: _____

Date: _____