



Module Specification

Obstetric Ultrasound in Practice

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Part 1: Information

Module title: Obstetric Ultrasound in Practice

Module code: UZYS PJ-30-M

Level: Level 7

For implementation from: 2023-24

UWE credit rating: 30

ECTS credit rating: 15

Faculty: Faculty of Health & Applied Sciences

Department: HAS School of Health and Social Wellbeing

Partner institutions: None

Field: Allied Health Professions

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: Fundamentals of Ultrasound Technology 2023-24

Continuing professional development: Yes

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Not applicable

Features: Entry requirements: Applicants must be working in a relevant area of ultrasound practice, and have either completed or be enrolled on a relevant physics or the Fundamentals of Ultrasound Technology module, by agreement with the module leader.

Educational aims: The aim of this module is to develop a safe and competent practitioner equipped with knowledge, critical understanding and professional skills for participation in an effective Obstetric Ultrasound Imaging service.

Outline syllabus: Typically, this module will cover:

Applied anatomy, physiology and pathology related to the female reproductive system, menstrual cycle

Embryological/fetal development, including abnormal fetal anatomy/developmental conditions;

Interpretation of biochemical, genetic, and other invasive or non-invasive screening/diagnostic tests,

Issues relating to the holistic preparation and care of the patient;

Role of ultrasound in the overall management of the patient;

Range of ultrasound techniques for external and intra-cavity procedures; including

Trans vaginal scanning, Trans abdominal scanning, Doppler studies (e.g. uterine, fetal umbilical, middle cerebral

arteries) and Complementary and/or alternative imaging techniques;

Obstetric ultrasound. Role of ultrasound in the 1st, 2nd and 3rd trimester, and post-natally, to include:

First Trimester

Dating scans; Downs Screening & anomaly scanning in the first trimester; Early pregnancy assessment clinics to include detection of early pregnancy loss, fetal biometry; multiple pregnancy e.g. chorionicity, amnionicity.

Second Trimester

Routine anomaly screening: fetal biometry; fetal echocardiography; placenta & umbilical cord; amniotic fluid volume; the 'late booker'.

Third Trimester

Maternal complications in pregnancy, assessment of fetal wellbeing; fetal growth trends, multiple pregnancy complications, fetal Doppler Placental assessment, Amniotic fluid assessment.

Post-partum

Post-partum complications e.g. detection of retained products of conception.

Legal , Ethical and Professional issues relating to Obstetric Ultrasound practice

Communication Skills

Reporting of Ultrasound Images

Part 3: Teaching and learning methods

Teaching and learning methods: See assessment strategy.

The placement hours for this module are a normal average, based on this being a practice-based programme which normally requires students to complete on average a minimum of 15 hours per week in a relevant practice setting per professional practice module.

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Utilise relevant knowledge of anatomy, physiology and pathology of the fetal and maternal organ systems to make evaluative judgements on the outcomes of ultrasound examination.

MO2 Competently, skilfully, and accurately, perform and report the findings of, a comprehensive range of obstetric ultrasound procedures.

MO3 Critically evaluate the contribution that obstetric ultrasound makes to the overall management of the patient with reference to screening and diagnostic procedures.

MO4 Critically appraise the evidence base for obstetric ultrasound practice and reflect on one's own practice and the practice of others within this context.

MO5 Demonstrate a critical knowledge of the legal, ethical, professional and organisational aspects of current ultrasound practice in Obstetric Ultrasound.

MO6 Effectively communicate with clients, their families and healthcare professionals, and make appropriate referrals as required.

Hours to be allocated: 300

Contact hours:

Independent study/self-guided study = 188 hours

Placement = 390 hours

Face-to-face learning = 112 hours

Total = 690

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/uzyspi-30-m.html) via the following link <https://uwe.rl.talis.com/modules/uzyspi-30-m.html>

Part 4: Assessment

Assessment strategy: Assessment Task 1: Completion of a Clinical Portfolio to include summative clinical assessments. Summative requirements of the portfolio are:

Learning Contract

Clinical Case Logs (minimum of 100, with 4 of these to be summatively assessed)

Final Placement Report

Rationale:

This component of assessment provides the opportunity for the student to demonstrate clinical competence and appreciation of the role of a sonographer in the relevant context of ultrasound imaging.

Assessment Task 2: Structured Oral and Practical Examination (SOPE) maximum 45 minutes.

Rationale: The use of a SOPE replicates the required skills of image commenting in

clinical practice and enables demonstration of knowledge and clinical reasoning through both practical demonstration and defended questioning. It enables the demonstration of the knowledge and understanding of the protocols, skills and reasoning (including relevant contemporary research) underpinning relevant ultrasound imaging, assessment and clinical reasoning.

Formative Assessment Opportunities: A range of resources including simulation opportunities and practical workshops will be available in addition to tutor support and feedback both in practice and via the module team.

Assessment tasks:

Portfolio (First Sit)

Description: Clinical portfolio - pass/fail

Weighting:

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO6

Practical Skills Assessment (First Sit)

Description: Structured Oral and Practical Examination (SOPE) (maximum 45 minutes)

Weighting: 100 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO3, MO4, MO5

Portfolio (Resit)

Description: Clinical portfolio - pass/fail

Weighting:

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO6

Practical Skills Assessment (Resit)

Description: Structured Oral and Practical Examination (SOPE) (maximum 45 minutes)

Weighting: 100 %

Final assessment: No

Group work: No

Learning outcomes tested: MO1, MO3, MO4, MO5

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Medical Ultrasound [Glenside] MSc 2023-24

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