



Module Specification

General Medical Ultrasound in Practice

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Part 1: Information

Module title: General Medical Ultrasound in Practice

Module code: UZYSPH-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 General Medical Ultrasound Imaging service.

Outline syllabus: Typically, this module will cover:

Applied anatomy, physiology and pathology related to general medical ultrasound practice; role of ultrasound as a screening procedure

Interpretation of biochemical 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.

Ultrasound appearances of normal and abnormal anatomy, to include anatomical variants.

Range of ultrasound techniques for external and intra-cavity procedures.

Doppler studies.

Contrast Agents.

Complementary and/or alternative imaging techniques.

4D Scanning

Interpretation and recording of examination data.

Safety guidelines, protocols and legislation.

Contemporary research and developments in ultrasound.

Techniques related to ultrasound imaging of abdominal and pelvic contents

Genito-urinary system Hepato-biliary system

Pancreas

Lymphatic system

Peritoneum Vascular

Digestive system

Male and female reproductive systems

Normal and abnormal appearances of the female pelvis

Techniques related to ultrasound imaging of non-abdominal superficial structures

Thyroid; breast; soft-tissues; musculo-skeletal; vascular; testes; salivary glands.

Paediatric ultrasound techniques

Ultrasound of the thorax

Pleural and pericardial effusions.

Legal and Ethical Issues

Professional and Employment Issues Relating to General Medical 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 the 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 abdominal organ systems to make evaluative judgements on the outcomes of general abdominal ultrasound examinations.

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

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

MO4 Critically appraise the evidence base for general abdominal 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 general medical 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/uzysph-30-m.html) via the following link <https://uwe.rl.talis.com/modules/uzysph-30-m.html>

Part 4: Assessment

Assessment strategy: This module has two assessment tasks; a clinical portfolio and a structured oral and practical examination (SOPE).

Clinical Portfolio to include summative clinical assessments, 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.

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:

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 (First Sit)

Description: Practice based assessments to include production of 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

Portfolio (Resit)

Description: Practice based assessments to include production of portfolio - pass/fail

Weighting:

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO6

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Medical Ultrasound [Glenside] MSc 2023-24

Medical Ultrasound [Glenside] MSc 2022-23