

## Module Specification

### Module Summary Information

1	<b>Module Title</b>	Abdominal Ultrasound 2
2	<b>Module Credits</b>	40
3	<b>Module Level</b>	6
4	<b>Module Code</b>	RAD6059

5	<b>Module Overview</b>
<p><b>Rationale</b></p> <p>This module aims to prepare you for a career in medical ultrasound, where you are continually seeking to improve yourself, the patient experience and your own diagnostic expertise. This module will build upon the theoretical and clinical skills in abdominal ultrasound that you developed at levels four and five, in order to facilitate and support your capability to become a competent ultrasound practitioner. This module supports the student in achieving the commensurate skills and knowledge necessary to competently complete an abdominal ultrasound examination of a level 6 student. The aim of the module is to use experiential learning within the clinical placement as a foundation for safe and ethical ultrasound practice.</p> <p><b>Alignment with Programme Philosophy and Aims</b></p> <p>This module has clinical and academic components and builds upon the knowledge acquired in Years 1 and 2. This Module aims to provide a thorough knowledge of abdominal pathology and apply this in relation to the ultrasound appearances in the abdomen. You will be supported in developing your practical ultrasound skills, and adapting your technique in examining complex referrals, including clinically unwell or technically challenging patients.</p> <p>A qualified sonographer is required to communicate ultrasound findings to peers, midwives, clinician's auxiliary staff, patients and carers and present cases at clinical multidisciplinary team (MDT) meetings. This module progresses you further on your journey into this professional multidisciplinary skill set for patients undergoing abdominal ultrasound. This module will include development of your understanding of the diverse cultures from which your patients will come, within the context of worldwide patient care. You will be supported in developing the necessary communication skills required to report complex pathology or unexpected findings.</p> <p>This module supports you in achieving the skills and knowledge necessary to competently complete an abdominal ultrasound examination commensurate of a level 6 student.</p> <p><b>Learning and Teaching Strategy</b></p> <p>This module will comprise of a number of approaches to learning. Keynote lectures will provide you with an overview of more complex disease processes and abdominal pathologies. This knowledge will then be applied to ultrasound practice using case based workshops and real life scenarios using theory workshops and practical sessions on the ultrasound simulator.</p> <p>You will be supported in developing your practical ultrasound skills in the clinical department, and by working through the personalised learning practical ultrasound assessments in abdominal ultrasound available on the ultrasound simulator. The use of the simulator allows you to develop your skills at</p>	

your own pace, and encourages personalised reflection and supports tutor feedback through analysis of activity completed.

Emphasis will be on your use of online resources provided via Moodle to prepare for workshops, seminar groups and small group tutorials. This module also makes use of e-learning resources and activities including, the Health Education England- e-Learning for Healthcare (e-LfH) e-learning project. These government resources have been developed with a range of professional bodies and their use will enhance your learning, support the teaching methods on the Module and provide a valuable reference point for you, encouraging you to become a lifelong learner.

Seminar groups will provide you with the opportunity to consider real life scenarios and cases studies, where peer feedback will be facilitated.

Examples of tasks you will undertake in this module include:

- Apply your knowledge of anatomy and physiology of the abdomen to the ultrasound examination in normal and abnormal clinical presentations.
- Apply the skills required to evaluate the medico-legality of an ultrasound examination request for an abdominal ultrasound examination
- Consolidate the communication skills required to obtain informed consent from the patient and construct an appropriate report and communicate its contents where appropriate, clearly both orally and in writing to specialist and non-specialist audiences, for an abnormal abdominal ultrasound examination.
- Where appropriate, recommend further imaging and or clinical referral to assist in Patient management.
- Demonstrate competence in abdominal ultrasound and a self-awareness of scope of practice and limitation of practice, seeking support where necessary.
- Critically evaluate the role of ultrasound in the diagnosis and management of abdominal pathologies and conditions, and relate theory to practice in the clinical setting.

### **Assessment Strategy**

You will be required to complete a Clinical Portfolio and a summative invigilated assessment which includes workstations.

**Clinical Portfolio:** As part of your clinical portfolio there will be evidence of formative learning, a summative Viva Voce and a summative clinical assessment.

The formative learning includes your personal reflections, formative clinical competencies, and a formative clinical assessment.

To meet the requirements of Consortium for the Accreditation of Sonographic Education (CASE), (2015) you will complete a summative Viva, undertaken by an independent assessor (who has not been involved with your clinical training).

The summative clinical assessment includes specified ultrasound examinations completed in the clinical department, the forms for which have been designed using recommendations from (CASE) (2015), the Society and College of Radiographers (SCoR) and British Medical Ultrasound Society (BMUS), Guidelines for Professional Ultrasound Practice (2015). Details of the summative clinical assessment are available in the Clinical Placement Handbook (Level 6)

**Summative invigilated assessment:** This is a 1 ½ hour invigilated assessment which will include questions using ultrasound images and scenarios and critical evaluation regarding the role of ultrasound in diagnosis and management of the abdomen.

6	Indicative Content
	<ul style="list-style-type: none"> <li>• Liver benign focal lesions/cysts</li> <li>• Reporting guidelines</li> <li>• Consent</li> <li>• Ultrasound request details</li> <li>• Communication skills</li> <li>• Medico legal responsibilities</li> <li>• Metastatic Liver Disease</li> <li>• Sclerotic Liver Disease</li> <li>• Acute Abdomen</li> <li>• FAST scanning</li> <li>• Paediatric Ultrasound</li> <li>• Biliary Pathology</li> <li>• Spleen, Pancreas and Adrenal pathology</li> <li>• Retroperitoneal, GI tract, Hernia, interventional and biopsy</li> <li>• Aorta – AAA screening programme</li> </ul>

7	Module Learning Outcomes
	<b>On successful completion of the module, students will be able to:</b>
	1 Apply a detailed understanding of anatomy and physiology, of the abdomen and pelvis to the clinical setting, including complex and unexpected pathology.
	2 Evaluate the medico-legality of an ultrasound examination request for a full range of examinations, obtain informed consent from the patient and using safe scanning practices, and autonomously complete a dynamic abdominal ultrasound examination commensurate with a level 6 student.
	3 Communicate abdominal ultrasound examination results both orally and in written reports, using audience appropriate terminology.
	4 Critically evaluate the role of ultrasound and relate theory to practice in the clinical setting, in order to contribute to patient diagnosis, management and service delivery, in a range of diseases affecting the abdominal organs.

8	Module Assessment		
Learning Outcome			
	Coursework	Exam	In-Person
1-3			X
4		X	

<b>9 Breakdown Learning and Teaching Activities</b>	
<b>Learning Activities</b>	<b>Hours</b>
<b>Scheduled Learning (SL)</b> includes lectures, practical classes and workshops, peer group learning, Graduate+, as specified in timetable	45
<b>Directed Learning (DL)</b> includes placements, work-based learning, external visits, on-line activity, Graduate+, peer learning, as directed on VLE	45
<b>Private Study (PS)</b> includes preparation for exams	310
<b>Total Study Hours:</b>	400 *Total hours of placement at L6 510 hours