

Module Specification

Module Summary Information

1	Module Title	Obstetric Ultrasound
2	Module Credits	40
3	Module Level	7
4	Module Code	LBR7547
5	Semester Taught	1&2

6	Module Overview
<p>This module has both clinical and academic components, it 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 aims to provide you with a thorough knowledge of normal fetal appearances and fetal abnormalities in early pregnancy, first, second and third trimester.</p> <p>The aim of the module is to use experiential learning within the clinical placement as a foundation for safe and ethical ultrasound practice. In order to support consistent and equitable high-quality training, you are required to complete 320 “hands on” practical scanning hours, undertaking a minimum of 400 examinations across a prescribed range of clinical referrals. This will enable you to develop the skills required to: perform a complete and competent obstetric ultrasound scan</p> <p>The learning and teaching strategy comprises of keynote lectures, which will provide you with an overview of more complex fetal abnormalities, normal variants and adnexal pathology. This knowledge will then be applied to ultrasound practice using case-based workshops and real-life scenarios. The module is informed by research from two perspectives; through the use of the current evidence base for ultrasound practice as well as through the use of the current evidence base for learning and teaching. This impacts on how the module is presented to you, as well as the content you are encouraged to engage with.</p> <p>A qualified sonographer is required to communicate ultrasound findings to peers, medical professionals, clinicians, 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 obstetric ultrasound.</p>	

7	Indicative Content
<ul style="list-style-type: none"> • US Technique TA and TV. Equipment Controls. Health and safety, medico legal considerations and consent for TV. • Anatomy and physiology female reproductive system. • Embryology and fetal development. • Normal early pregnancy scan and Early pregnancy complications. • Dating scan/Nuchal translucency. Screening tests in the 1st trimester. • Delivering “bad news”. • Anomaly scan. 11 auditable conditions. Mid T anomalies. • Third trimester and high-risk pregnancy and vasa praevia. • Multiple pregnancy. • Doppler ultrasound on obstetrics. 	

- Gynae overview.

8		Module Learning Outcomes On successful completion of the module, students will be able to:
	1	Competently perform and report on a range of obstetric ultrasound examinations in a safe and professional manner.
	2	Evaluate the medico-legality of an ultrasound examination request for a full range of examinations and using safe scanning practices autonomously complete a dynamic obstetric ultrasound examination.
	3	Communicate obstetric ultrasound examination results, 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 the management of pregnancy.

9		Module Assessment		
Learning Outcome Number <i>(from table 8)</i>	Coursework	Exam	In-Person	
4	X (100%)			
3			X (pass / fail)	
1&2			X (pass / fail)	

10 Breakdown Learning and Teaching Activities		
Learning Activities	Hours	Details of Duration, Frequency and other comments
Scheduled Learning (SL) includes lectures, practical classes and workshops as specified in timetable	40 hours	(Blended delivery) lectures, seminars and workshops.
Directed Learning (DL) includes placements, work-based learning, peer group learning external visits, on-line activity, Graduate+, peer learning, as directed on VLE	160 hours	Online activities will be available on Moodle, along with pre-reading and post session materials. Students will be directed to engage with online activities regularly for the duration of the module.
Private Study (PS) includes preparation for exams	200 hours	Private study should be allocated throughout the module to enable private reading around the scheduled learning and preparation towards assessment.
Total Study Hours:	400 hours	

You will be introduced to the Virtual Learning Environment and asked to engage with materials throughout this module. The module has a reading list online which will be a comprehensive and up to date resource of a variety of sources of literature and information that will support learning and achievement of learning outcomes. This can be found on your module Moodle site. You will also have access to your workplace library and resources. Below is a sample that will support your learning

BOOKS

Bates, Jane A. "Practical Gynaecological Ultrasound." Cambridge University Press, 2006. Print.

Chudleigh, Patricia, Alison Smith, and Sonia Cumming. *Obstetric & Gynaecological Ultrasound How, Why and When*. Ed. Patricia Chudleigh, Alison Smith, and Sonia Cumming. Fourth edition. Amsterdam: Elsevier, 2016. Print.

Gibbs, Vivien, David Cole, and Antonio Sassano. "Ultrasound Physics and Technology : How, Why and When." Churchill Livingstone/Elsevier, 2009. Print.

Shaw, Robert W. et al. *Gynaecology*. 4th ed. Edinburgh: Churchill Livingstone, 2011. Print.

Symonds, E. M. (Edwin Malcolm), and Ian M. Symonds. *Essential Obstetrics and Gynaecology*. 4th ed. Edinburgh: Churchill Livingstone, 2003. Print.

Tortora, Gerard J, and Bryan H Derrickson. *Principles of Anatomy & Physiology*. 15th ed. Wiley, 2017. Print.

JOURNALS

British Journal of Radiology

www.birpublications.org/loi/bjr

British Medical Ultrasound Society Bulletin

www.bmus.org/bmus-journal-and-publications

Clinical Radiology

www.journals.elsevier.com/clinical-radiology/

Diagnostic Imaging

www.diagnosticimaging.com/

Journal of Diagnostic Medical Sonography

<http://jdm.sagepub.com/>

Journal of Diagnostic Radiography and Imaging

<http://journals.cambridge.org/action/displayJournal?jid=JDR>

Radiography

[Radiography - Journal - Elsevier](http://www.elsevier.com/locate/journal/radiography)

WEBSITES

Health Education England. (2018, January 1). e-Learning for Healthcare (e-LfH) e-Learning Project