



Module Specification

Cross-Sectional Anatomy for the Nuclear Medicine Practitioner

Version: 2023-24, v2.0, 21 Jul 2023

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Part 1: Information

Module title: Cross-Sectional Anatomy for the Nuclear Medicine Practitioner

Module code: UZYSQ9-15-M

Level: Level 7

For implementation from: 2023-24

UWE credit rating: 15

ECTS credit rating: 7.5

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: None

Continuing professional development: Yes

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Not applicable

Features: Not applicable

Educational aims: See Learning Outcomes.

Outline syllabus: Regional and Cross-sectional anatomy of the head, neck and trunk:

Main organ and organ components, major lymphatic groups, relevant vascular anatomy

Use of computed tomography cross-sectional images to exemplify anatomy

Use of SPECT/CT images to illustrate common disease states relevant to Nuclear Medicine

Using knowledge to support practice, and improve service delivery:

Professional role development

Clinical decision-making

Part 3: Teaching and learning methods

Teaching and learning methods: The learning and teaching strategy for this module has been developed to show achievement of an appropriate level of facility with anatomy in cross-section that gives practitioners more confidence in understanding the images they are producing. Some role developments for Nuclear Medicine Practitioners, particularly in the expanding area of hybrid imaging, such as, SPECT/CT and PET/CT are facilitated by a good knowledge of sectional anatomy and how this has potentially been affected by the presence of disease. It is useful for practitioners to understand how their knowledge of image appearances may help them to improve the efficacy of the patient's diagnosis, through seeking additional information from the patient, from clinical colleagues or through electing to take additional images.

This module builds upon the existing anatomical knowledge that imaging practitioners have. Delivery will be notionally divided into 4 sections covering head and neck, chest, abdomen and pelvis anatomy. Review of regional anatomy through narrated presentations will ensure that all learners are familiar with the essential anatomical components of each of the sections. Subsequently, cross-sectional

anatomy will be learnt through narrated presentations; tasks that require active engagement, such as image labelling, drawing and answering questions; and image review on provided image series for each of the body areas. Students will also be encouraged to review images produced in their own departments. This strategy builds on experience with another cross-sectional anatomy module successfully delivered for the PGCert in Specialist Practice (CT). Anatomy will also be demonstrated through specific examples of disease that show anatomical structure and how it is changed in the presence of disease.

To ensure engagement in the module learning opportunities, assessment will be linked to involvement in and contribution to discussion boards where specific tasks will be set. The tasks will be constructed to ensure that the module learning outcomes must be addressed. Contributions to these tasks will form source material from which students may extract content to add to their portfolio for assessment. Experience from other modules using this format indicates the potential for valuable discussion relating to the module content and helps ensure timely engagement as opposed to leaving personal study and revision to the end of the module delivery. The capacity to engage in debate with peers helps to facilitate networking, peer/shared learning and knowledge exchange.

Scheduled learning includes up to 30 hours engaged with lectures, seminars, tutorials, discussion board entries, project supervision, work based learning.

Independent learning includes upto 120 hours engaged with essential reading, case study preparation, assignment preparation and completion and reflection of learning.

Contact Hours:

Contact hours will be achieved through a blended learning approach that will include distance based education supplemented by knowledge exchange events. This distance based education will embrace the University's current vision associated with Technology Enhanced learning. Such learning will include but not be limited to, asynchronous delivery of lecture material through narrated presentations, notes and other guided reading, VLE discussion board fora with specific objectives, workplace

tasks, and other study tasks deemed appropriate to the development of student knowledge.

Formative feedback on allocated study tasks will be provided. Contact with the module leader for discussion of module related issues will be facilitated by email, phone conversations and through interaction at the knowledge exchange events.

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

MO1 Understand the regional anatomy of the head, neck and trunk

MO2 Identify the major organs, their components, vessels and major lymphatic structures in anatomical cross-section

MO3 Demonstrate an in-depth understanding of anatomical spatial relationships

MO4 Critically assess changes to normal anatomy in Nuclear Medicine relevant disease states

MO5 Relate structure to function and critically explore the effect of disease states on both of these

MO6 Critically discuss the application of anatomical and pathological knowledge to professional development and service improvement

MO7 Obtain, evaluate and synthesise information from a range of sources and use it to effectively develop understanding of cross-sectional anatomy

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 120 hours

Face-to-face learning = 30 hours

Total = 150

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/uzysq9-15-m.html) via the following link <https://uwe.rl.talis.com/modules/uzysq9-15-m.html>

Part 4: Assessment

Assessment strategy: A 2500 word portfolio will demonstrate achievement of the learning outcomes.

The Portfolio comprises of:

Clinical case study detailing a specific patient case and identifying key anatomy and pathological changes (1000 words)

Discussion of professional development and service improvement with respect to the practitioner's understanding of cross-sectional anatomy (500 words)

Extracts from discussion boards contributions relating to the set tasks (1000 words)

10 labelled cross-sectional images from each of the 4 anatomical regions

The portfolio will assess all of the module learning outcomes. Inclusion of extracts from discussion board contributions ensures student engagement with the module content but also with peers for shared learning and debate.

Formative assessment will be achieved by feedback on discussion board contributions from the module team, indicating where good understanding has been achieved or where there is scope for further exploration and development.

Assessment tasks:

Portfolio (First Sit)

Description: 2500 word portfolio

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6, MO7

Portfolio (Resit)

Description: 2500 word portfolio

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6, MO7

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Nuclear Medicine [Distance] MSc 2023-24