



Module Specification

Pathophysiology and Diagnostic Reasoning in Clinical Practice

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Part 1: Information

Module title: Pathophysiology and Diagnostic Reasoning in Clinical Practice

Module code: UZWRWX-20-M

Level: Level 7

For implementation from: 2023-24

UWE credit rating: 20

ECTS credit rating: 10

Faculty: Faculty of Health & Applied Sciences

Department: HAS School of Health and Social Wellbeing

Partner institutions: None

Field: Acute and Critical Care Adult Nursing

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: This multi professional module will build on knowledge to improve understanding and critical evaluation of the pathophysiology and diagnostics of common diseases seen in clinical practice. The module explores the links between the pathophysiology of disease processes and the diagnostic testing process with emphasis on learning to discriminate between different diagnostics modalities and the evaluation of results.

Features: Module Entry Requirements: Registered health and social care professional

Educational aims: See Learning Outcomes.

Outline syllabus: The module :

Will consider frameworks and tools for diagnostic reasoning skills to develop and improve autonomous decision making.

Will enable the development of skills to critically evaluate the evidence, critically interpret test results and synthesise findings enhancing your diagnostic reasoning skills.

Will explore common ethical, legal and practical challenges of requesting investigations in clinical practice; with reference to referral pathways, expert sources, risk assessment, clinical governance and national guidelines.

Will encourage exploration, critically evaluation and appraisal of pathophysiology and diagnostic tests / clinical reasoning around a disease process within your own specialist area.

Will introduce and develop your understanding, critical evaluation, and complex thinking around the processes related to (but not limited to) clinical mechanisms and investigations of:

Cell biology, including cell growth, cell change and associated disorders including some neoplasia

Inflammation, inflammatory processes including atheroma and sepsis

Infection and associated normal / abnormal responses

Thrombosis and associated disease

The genetic contribution to disease

Contribution of autoimmune responses and disease

Common cardiovascular disease

Common renal disease

Common respiratory disease

The contribution and challenges presented by poor mental health on disease presentation and progression

Diagnostic processes, frameworks, principals and modalities

Evaluation of relevant clinical haematology, biochemistry immunology, microbiology radiology clinical haematology, immunology, biochemistry, microbiology, radiology and electrocardiograms

Ethical and legal frameworks

Professional responsibilities

Part 3: Teaching and learning methods

Teaching and learning methods: See syllabus and assessment strategy.

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

MO1 Critically appraise the aetiological factors and relevant risk factors which contribute to processes of disease and disease progression

MO2 Critically evaluate current theories relating to a series of pathophysiological states

MO3 Construct a rationale for diagnostic reasoning using knowledge of the range of disease processes and national guidance

MO4 Obtain, interpret and synthesise information from a range of sources and use them to generate a critical understanding of specific diseases and pathophysiological processes

MO5 Use clinical argument and knowledge to enhance the critical evaluation of diagnostic findings. Demonstrate awareness of personal and organisational accountability related to the process of diagnostic reasoning

MO6 Critically appraise ethical, legal and organisational dimensions which impact on diagnostic reasoning and the multi-professional team

Hours to be allocated: 200

Contact hours:

Independent study/self-guided study = 152 hours

Face-to-face learning = 48 hours

Total = 200

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/uzwrwx-20-m.html) via the following link <https://uwe.rl.talis.com/modules/uzwrwx-20-m.html>

Part 4: Assessment

Assessment strategy: Assessment will be by an online exam with a 24 hour submission window, and two-hour suggested completion time.

The examination paper will require the student to demonstrate both critical appraisal as well as demonstrating depth of knowledge and understanding of a wide range of pathophysiological principals, pathways and diagnostic reasoning skills that underpin diagnostic reasoning. The exam paper may include questions on the pathophysiology, typical clinical presentations, typical investigations and pathways seen in clinical practice. This form of assessment complements the other modules if

students are completing the module as part of a pathways.

Formative Assessment Strategy:

Students will be provided with a mock sample exam paper; lectures will conclude with sample of mock exam questions and there will a bank of sample questions on Blackboard.

Assessment tasks:

Examination (Online) (First Sit)

Description: Online Examination (24 hours)

Weighting: 100 %

Final assessment: Yes

Group work: No

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

Examination (Online) (Resit)

Description: Online Examination (24 hours)

Weighting: 100 %

Final assessment: Yes

Group work: No

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

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Advanced Clinical Practice {Apprenticeship-UWE} [Glenside] MSc 2023-24

Advanced Practice [Glenside] MSc 2023-24