



Module Specification

Applied Paramedic Pharmacology

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Part 1: Information

Module title: Applied Paramedic Pharmacology

Module code: UZYSV6-15-3

Level: Level 6

For implementation from: 2023-24

UWE credit rating: 15

ECTS credit rating: 7.5

Faculty: Faculty of Health & Applied Sciences

Department: HAS Dept of Applied Sciences

Partner institutions: None

Field: Allied Health Professions

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: Not applicable

Features: Not applicable

Educational aims: See Learning Outcomes

Outline syllabus: Introduction: An overview of pharmacology and therapeutics in pre-hospital emergency, critical and urgent care:

Medicines, ethics, the law and safe practice

How drugs work: Pharmacokinetics and pharmacodynamics and the therapeutic response across the life-span

Principles of drug administration and calculating dosage

Indications, contra-indications, side-effects and dosages of pharmacotherapy affecting:

The central nervous system

The cardiovascular system

The respiratory system

The digestive system

The endocrine system

Indications, contra-indications, side-effects and dosages of:

Analgesic and anti-inflammatory pharmacotherapy

Antibiotic pharmacotherapy

Sedative and anaesthetic pharmacotherapy

Anti-emetic pharmacotherapy

The harmful effects of drugs including adverse drug reactions, interactions and allergic response

Overdose and recognition of toxidromes.

Part 3: Teaching and learning methods

Teaching and learning methods: Scheduled learning includes clinical skills workshops and simulation.

Independent learning includes hours engaged with essential reading, revision and maintaining a portfolio

Contact Hours: The programme will be entirely delivered using a blended learning methodology; incorporating technology enhanced learning material, online web content, video presentations, lectures, seminars.

The total notional study time for each module is calculated to be 150 hours, divided between student independent time (114 hours) and student/lecturer interaction time (36 hours).

The contact time with the students is approximately 36 hours for each module. Different methods to deliver course content will be chosen to provide the best possible learning experience to students.

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

MO1 Critically evaluate why the paramedic needs to have an understanding of emergency, urgent and critical care drug pharmacotherapy and therapeutics

MO2 Apply understanding of the processes involved in the pharmacodynamics and pharmacokinetics of the range of medications available for administration by paramedics and specialist paramedics

MO3 Evaluate the anatomical, physiological and gerontological factors, including co-morbidities, which can affect the administration of medication

MO4 Evaluate the effects of polypharmacy

MO5 Synthesise a comprehensive knowledge of drug actions with applied paramedic/specialist paramedic practice

MO6 Critically review the role of patient group directives and the potential role of specialist paramedic prescribing

MO7 Understand and evaluate the effects of toxidromes and their management

MO8 Safely and effectively apply clinical reasoning to decisions about drug selection and administration

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 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/uzysv6-15-3.html) via the following link <https://uwe.rl.talis.com/modules/uzysv6-15-3.html>

Part 4: Assessment

Assessment strategy: Summative assessment

Assessment Task 1 (100%): 2.5 hour unseen exam

Rationale: To assess the student's general knowledge and understanding of all aspects of paramedic administered therapeutics

Formative assessment will take place through skills supervision and feedback, also tutorial support and reading by a personal tutor of draft work.

Assessment tasks:**Examination (First Sit)**

Description: 2.5 hour unseen exam

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6, MO7, MO8

Examination (Resit)

Description: 2.5 hour unseen exam

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6, MO7, MO8

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Paramedic Science [Sep][FT][Glenside][3yrs] BSc (Hons) 2021-22

Paramedic Science [Feb][FT][Glenside][3yrs] BSc (Hons) 2021-22