Module Specification

Applied Paramedic Pharmacology

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

Contents

Part 1: Information

Module title: Applied Paramedic Pharmacology

Module code: UZYSLR-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 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: 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 digestive system
The endocrine system

Indications, contra-indications, side-effects and dosages of:
Analgesic and anti anti-inflamatory 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: The programme will be entirely delivered using a blended learning methodology; incorporating technology enhanced learning material, online web content, video presentations, lectures, seminars and workshops.

The following methods will be used to deliver the course contents:
Lectures: lectures will be delivered by members of the faculty (average three hours time per lecture) Power-point presentations and other materials will be available to

students for follow-up. Lectures will be followed by an online discussion group.
Online discussion groups with a member of the faculty available to answer questions submitted via the Blackboard.
Wiki pages for group and individual work
The Virtual Learning Environment [Blackboard] of UWE will be the platform for programme communication and will include technology enhanced learning materials, on-line discussions and assessments
This resource will also be used to track student engagement activity; course management; tutorial and pastoral support

Contact Hours/Scheduled 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/specialist paramedic needs to have a good understanding of emergency, urgent and critical care drug pharmacotherapy and therapeutics

MO2 Critically review the role of patient group directives and the potential role of specialist paramedic prescribing

MO3 Apply understanding of the processes involved in the pharmacodynamics and pharmacokinetics of the range of medications available for administration by paramedics and specialist paramedics

MO4 Evaluate the anatomical, physiological and gerontological factors, including co-morbidities, which can affect the administration of medication

MO5 Evaluate the effects of polypharmacy

MO6 Synthesise a comprehensive knowledge of drug actions with applied paramedic/specialist paramedic practice

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 via the following link https://uwe.rl.talis.com/index.html

Part 4: Assessment

Assessment strategy: Assessment task (100%): 2.5 hour unseen exam to assess the student's general knowledge and understanding of all aspects of paramedic administered therapeutics

Assessment tasks:

Examination (First Sit)
Description: Unseen exam 2.5 hours
Weighting: 100 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO2, MO3, MO4, MO5, MO6, MO7, MO8

Examination (Resit)

Description: Unseen exam 2.5 hours

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:

Applied Paramedic Science {Top Up} [Glenside] BSc (Hons) 2023-24