



Module Specification

Pharmacology and Therapeutics 2

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Part 1: Information

Module title: Pharmacology and Therapeutics 2

Module code: UZYY5A-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: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: This module will build upon the content delivered in the second year module Pharmacology and Therapeutics One.

Features: Not applicable

Educational aims: See Learning Outcomes.

Outline syllabus: The module will provide students with an understanding of the pharmaceutical properties of medication used for ocular pathology and/or other use

in infection and inflammation, myopia, glaucoma and retinal pathology.

This module will provide a review of autonomic pharmacology and the pharmacological classification of ANS drugs, namely: parasympathomimetics, sympathomimetics, anticholinesterases, antimuscarinics, and adrenergic antagonists.

Other drug types covered in this module are: intraocular-acting diagnostic drugs - mydriatics and miotics. Bases for the treatment of infection - antibiotics, anti-viral, anti-fungal and anti-protozoal agents. Bases for the treatment of inflammation - glucocorticosteroids, NSAIDs, mast cell stabilisers, anti-histamines. Bases for the treatment of glaucoma.

Students will also examine drugs used in ocular operative procedures, ocular nutritional supplements and drugs used in ocular emergencies.

Part 3: Teaching and learning methods

Teaching and learning methods: The module will typically comprise of weekly contact lectures and online learning.

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

MO1 Summarise and explain the mechanisms of action and relate the mechanism of action to its ocular and systemic adverse reactions of the following ocular drugs: mydriatics, miotics, anti-infectives, and anti-inflammatories

MO2 Explain the mechanism of action and relate this to possible ocular and systemic adverse reactions for drugs used to treat glaucoma, myopia, ocular surgeries, ocular emergencies and nutritional supplementation

MO3 Explain the mechanisms of action of drugs that target the autonomic nervous system

MO4 Predict the contraindications for use and justify the choice of ocular drugs in case scenarios

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 118 hours

Face-to-face learning = 36 hours

Total = 154

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://uwe.rl.talis.com/modules/uzyy5a-15-3.html) via the following link <https://uwe.rl.talis.com/modules/uzyy5a-15-3.html>

Part 4: Assessment

Assessment strategy: The assessment task will be a 2 hour exam including MCQs, SAQs, and long-answer questions.

Rationale: This will assess the underpinning theoretical aspects of the module relating to ocular pharmacology as per the learning outcomes. This will allow students to be assessed efficiently on factual knowledge as well as exploring more depth and application through longer answers.

Formative assessment: Students will be able to engage in formative quizzes and exam opportunities throughout the module.

Assessment tasks:

Examination (First Sit)

Description: Exam (2 hours)

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

Examination (Resit)

Description: Exam (2 hours)

Weighting: 100 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3, MO4

Part 5: Contributes towards

This module contributes towards the following programmes of study:

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