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MODULE DESCRIPTOR

Module Title

Principles Of Pharmacology

Reference	AS2910	Version	3
Created	October 2017	SCQF Level	SCQF 8
Approved	August 2014	SCQF Points	15
Amended	February 2018	ECTS Points	7.5

Aims of Module

To understand and apply principles of pharmacology in the context of disease processes and drug action.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

1	Explain the basic principles of drug action.
2	Explain the absorption, distribution, metabolism and elimination of drugs.
3	Discuss the mode of action of selected groups of drugs.
4	Manipulate and interpret experimental data and to select and apply appropriate statistical techniques.

Indicative Module Content

Cell signalling and regulation, G-protein coupled receptors, nuclear hormone receptors, tyrosine kinase receptors, ligand-gated ion channels. Autonomic neurotransmitters; synthesis, metabolism, uptake and transporter systems. Cholinergic and adrenergic agonists and antagonists. Principals of pharmacokinetics. Routes of drug administration, bioavaialability, ADME (absorption, distribution, metabolism (cytochrome P450) and excretion).

Module Delivery

Lectures with associated tutorials, computer-based exercises and laboratory practicals.

Indicative Student Workload	Full Time	Part Time
Contact Hours	40	N/A
Non-Contact Hours	110	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	N/A
Actual Placement hours for professional, statutory or regulatory body		

Module Ref:	AS2910 v3

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Type:	Coursework	Weighting:	50%	Outcomes Assessed:	1, 2
Description:	MCQ assessment.				

Component 2

Type:	Coursework	Weighting:	50%	Outcomes Assessed:	3, 4
Description:	A laboratory report.				

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

This module is assessed using the two components of assessment as detailed in the Assessment Plan. To pass this module, candidates must achieve a Module Grade D or better.

Module Grade	Minimum Requirements to achieve Module Grade:
A	Final aggregate mark of 70% or greater and a minimum of 35% in C1 and C2
B	Final aggregate mark of between 60-69% and a minimum of 35% in C1 and C2
C	Final aggregate mark of between 50-59% and a minimum of 35% in C1 and C2
D	Final aggregate mark of between 40-49% and a minimum of 35% in C1 and C2
E	MARGINAL FAIL. Final aggregate of between 35-39% and a minimum of 35% in C1 and C2
F	FAIL. A mark of less than 35% in either component
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements

Prerequisites for Module	Successful completion of Stage 1 of the course or equivalent.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

1	HARVEY, R.A.et al. *Lippincott's Illustrated Reviews: Pharmacology.* Current Edition. Wolters Kluwer
2	GOLAN, D.E. et al. *Fundamental Principles of Pharmacology: The Pathophysiologic Basis of Drug Therapy.* Current Edition. Wolters Kluwer.
3	GOLAN, D.E. et al. *Principles of Pharmacology.* Current Edition. Baltimore: Lippincott, Williams and Wilkins.