

Module Details	
Module Title:	Clinical Pharmacology
Module Code:	CLS6001-B
Academic Year:	2019-20
Credit Rating:	20
School:	School of Pharmacy and Medical Sciences
Subject Area:	Clinical Sciences
FHEQ Level:	FHEQ Level 6
Pre-requisites:	Cardiovascular, Respiratory and Renal Systems 2017-18, Nutrition and Energy 2017-18, Personal and Professional Development, Society and Health 2017-18, Special Studies 2 2018-19
Co-requisites:	

Contact Hours	
Type	Hours
Lectures	20
Practical classes and workshops	16
Tutorials	6
Directed Study	158

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Academic Year (Sept - May)

Module Aims
To stimulate an awareness of pharmacokinetics, drug metabolism and transport, drug therapy in special populations and how these processes may vary between ethnic groups

Outline Syllabus
Clinical Pharmacokinetics. Compartmental and non-compartmental analysis of drug distribution. Drug Absorption and Bioavailability. Effect of renal and liver disease on pharmacokinetics. Pathways of Drug metabolism and enzymology. Population Pharmacokinetics. Pharmacogenetics.

Drug Interactions, inhibition, induction. Drug therapy and clearance in pregnant and nursing women, neonates and children, elderly patients

Learning Outcomes

1	Discuss how drugs are absorbed, distributed and eliminated from the body and explain how these processes may differ in various sub-populations.
2	Evaluate the basis of drug interactions based on pharmacokinetic and metabolic parameters.
3	Interpret individual and population pharmacokinetic profiles.
4	Use coherent communication, analysis and problem-solving skills to apply your knowledge to new concepts and data.

Learning, Teaching and Assessment Strategy

Information outlining the knowledge and understanding required of this module is delivered in lectures and tutorials. Self-directed learning during directed study time using worksheets and in-class tests will develop your cognitive skills and tutorials/workshops will be used to reinforce the taught component. Formative assessments will be used to monitor your progress. Your knowledge base and critical analysis of the material will be assessed by an open-book examination and case study evaluation.

Mode of Assessment

Type	Method	Description	Length	Weighting
Summative	Examination - open book or seen paper	One written open-book 2 hour examination - End of Semester 2	2 hours	80%
Summative	Examination - open book or seen paper	Pharmacokinetic Case Study - End of Semester 1	1 hour	20%

Reading List

To access the reading list for this module, please visit <https://bradford.rl.talis.com/index.html>.

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.