

Clinical Pharmacology

Module Code:	CLS6001-B
Academic Year:	2018-19
Credit Rating:	20
School:	School of Pharmacy and Medical Sciences
Subject Area:	Clinical Sciences
FHEQ Level:	FHEQ Level 6
Module Leader:	Dr Ian Grimsey

Additional Tutors:

Pre-requisites:	Cardiovascular, Respiratory and Renal Systems 2016-17,
Co-requisites:	

Contact Hours

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

Availability Periods

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

Module Learning Outcomes

On successful completion of this module, students will be able to...

- 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	Final Assess'
Summative	Examination - open book or seen paper	One written open-book 2 hour examination - End of Semester 2	2 hours	80%	Yes
Summative	Examination - open book or seen paper	Pharmacokinetic Case Study - End of Semester 1	1 hour	20%	No

Legacy Code (if applicable)

CS-6001L

Reading List

To view Reading List, please go to [rebus:list](#).