

MODULE SPECIFICATION

Module Title:	Clinical Pharmacology for Advanced Practice	Level:	7	Credit Value:	20
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Module code:	NHS782	New Existing X	Code of module being replaced:	NA
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Cost Centre:	GANG	JACS3 code:	B700
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Trimester(s) in which to be offered:	2	With effect from:	September 18
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School:	Social and Life Sciences	Module Leader:	Joanne Pike
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Scheduled learning and teaching hours	34 hrs
Guided independent study	106 hrs
Placement	60 hrs
Module duration (total hours)	200 hrs

Programme(s) in which to be offered	Core	Option
MSc Advanced Clinical Practice (Therapies)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MSc Advanced Clinical Practice	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MSc Health Sciences	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MSc Health Sciences (Healthcare Leadership)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MSc Health Sciences (Therapies)	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Pre-requisites
NA

Office use only

Initial approval August 16

APSC approval of modification: 05/08/20
updated module aims.

Version 2

Have any derogations received SQC approval?

Yes No

Module Aims	
1.	Develop a critical appreciation of the underpinning theoretical principles of the administration of drugs in clinical practice
2.	Facilitate the application of principles of drug administration in clinical practice
3.	Promote an evidence based approach to clinical practice

Intended Learning Outcomes			
Key skills for employability			
KS1 Written, oral and media communication skills			
KS2 Leadership, team working and networking skills			
KS3 Opportunity, creativity and problem solving skills			
KS4 Information technology skills and digital literacy			
KS5 Information management skills			
KS6 Research skills			
KS7 Intercultural and sustainability skills			
KS8 Career management skills			
KS9 Learning to learn (managing personal and professional development, self-management)			
KS10 Numeracy			
At the end of this module, students will be able to			Key Skills
1	Demonstrate a thorough comprehension of drugs, their pharmacology, interactions, pharmacokinetics and pharmacodynamics	KS1	KS2
		KS3	KS4
		KS6	KS10
2	Evaluate arguments, assumptions and concepts relevant to drug administration in the advanced practice context, and synthesise questions in order to frame solutions to problems encountered	KS1	KS2
		KS3	KS4
		KS5	KS10
3	Competently assess medications management situations based on a systematic understanding of theories and principles of medicines management in advanced clinical practice and plan appropriate action	KS1	KS2
		KS3	KS4
		KS6	KS10
4	Evaluate the outcomes of clinical or management decisions and policy implementation based on knowledge and understanding of drug administration in context	KS1	KS2
		KS3	KS6
		KS7	KS9

Transferable/key skills and other attributes

Exercise initiative and personal responsibility
 Make decisions in complex and unpredictable situations
 Demonstrate communication skills necessary for advanced management of patients/clients
 Assess and manage risk
 Demonstrate competency in word processing and the presentation of data
 Demonstrate competency in the use of libraries, databases and the Internet as sources of information
 Demonstrate excellent verbal and written communication skills.

Derogations

The following derogation will apply for students undertaking the MSc Health Sciences (all routes): Any work submitted which indicates unsafe practice by the student, or which breaches anonymity and/or confidentiality, will result in overall refer/defer of the module.
 In Addition:
 Students undertaking the MSc Advanced Clinical Practice (all routes):
 There will be no condonement allowed for any assessment, thus all elements of a module must be passed.

Assessment:

This module will be assessed by two tasks, both of which must be passed in order to pass the module.

1. A portfolio of evidence reflecting 60 hours of practice, of four scenarios detailing decisions that have been made as regards medications given under discipline-specific formularies and/or under PGD (or of referring on for medical treatment where medication is not available).
 - Example template 1: Mr Jones is a 75 year old male who has dialled 999. On arrival at scene, the paramedic practitioner is able to diagnose a myocardial infarction. Mr Jones was given aspirin and diamorphine and tenecteplase in the ambulance. Discuss the mode of action of the named drugs required to manage the patients' condition. You should include aspects such as absorption, metabolism and elimination and rationale for administration.
 - Example template 2: Mr James, a 68 year old man, with a history of Type 2 diabetes is 15 days post right below knee amputation. He is currently on sliding scale s/c insulin therapy to manage his brittle diabetes. He has consulted you because he is suffering with increased pain following discharge from hospital. Include a brief discussion of potential medications, side-effects, administration routes, monitoring effectiveness, contraindications, special advice or counselling and any legal and ethical issues.
 - A short evaluation of the portfolio must be included, reflecting the current drug administration patterns in clinical practice, to investigate potential for development. All learning outcomes must be evidenced within the clinical portfolio.
 - 70% of module mark

2. A one hour unseen examination which examines the student's knowledge and understanding of pharmacology.
- 30% of module mark

NB. Both elements must be passed in order to pass the module.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)	Duration (if exam)	Word count (or equivalent if appropriate)
1	3,4,5	Portfolio	70%		3,000
2	1,2	Written Examination	30%	1 hr	NA

Learning and Teaching Strategies:

A variety of learning and teaching methods will be used and are designed to stimulate student enquiry and self-directed learning around the curriculum content. This includes classroom based strategies such as interactive lectures and discussions, seminars and workshops, tutorial sessions and problem-based / case-based learning supported by internet-based resources and use of the virtual learning environment Moodle. In clinical practice, an experiential strategy, including observation, guided practice and observed independent practice, will be used to meet the module outcomes.

In clinical practice an experiential strategy based on a negotiated learning contract between the student and his/her clinical mentor will be employed.

Syllabus outline:

pharmaco-dynamics and pharmacokinetics,
 basic principles of drugs - absorption, distribution, metabolism and excretion, including adverse drug reactions (ADR)
 interactions and reactions
 patient/client compliance, concordance and drug response
 impact of physiological state on drug responses and safety, e.g. in elderly people, neonates, children and young people, pregnant or breast feeding women and ethnicity,
 selection and optimisation of a drug regimen for the patient condition,
 impact of co-morbidities on prescribing and patient management.

Bibliography:

Essential reading

British Medical Association, Royal Pharmaceutical Society of Great Britain (Current edition)
British National Formulary. London BMA/RPSGB

Turley, S.M. (2016) *Understanding pharmacology for health professionals 5th Ed.* Upper Saddle River, NJ: Prentice Hall

Other indicative reading

Barber, P. and Robertson, D (2015) *Essentials of pharmacology for nurses 3rd Ed* Berkshire: McGraw-Hill

Neal, M.J. (2015) *Medical pharmacology at a glance* Oxford: Wiley Blackwell

Rang, H.P. Ritter, J. M, Flower, R.J. and Henderson, G (eds) (2015) *Rang and Dale's Pharmacology (8th edition)* London. Churchill Livingstone.