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Title: MEDICINES USE IN PAEDIATRICS AND NEONATES:
CLINICAL BASIS
Status: Definitive
Code: **7101CPPHAR** (121034)
Version Start Date: 01-08-2021

Owning School/Faculty: Pharmacy & Biomolecular Sciences
Teaching School/Faculty: Pharmacy & Biomolecular Sciences

Team	Leader
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Academic Level: FHEQ7 **Credit Value:** 10 **Total Delivered Hours:** 21.5
Total Learning Hours: 100 **Private Study:** 78.5

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Online	15
Tutorial	5

Grading Basis: Pass/Not Pass

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam	Written exam	100	1.5

Aims

To provide integrated knowledge and understanding of the underpinning basis of medicines use in paediatrics and neonatology and to enable the student to develop skills in applying this knowledge to simulated and real patient cases.

Learning Outcomes

After completing the module the student should be able to:

- 1 Apply knowledge of developmental pharmacokinetics and pharmacodynamics to select, or make recommendations on, appropriate use of medicines in neonatal and paediatric populations
- 2 Critically review formulation issues, taking account of the role of any excipients, and select, or make recommendations on, appropriate formulation changes or manipulations
- 3 Identify, assess and manage safety issues and pharmaceutical care needs relating to therapy for key paediatric conditions

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Written Exam	1	2	3
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Outline Syllabus

Developmental pharmacokinetics and pharmacodynamics and application to practice in a paediatric and neonatal population

Practicalities around using medicines in children and neonates, such as:

- Prescribing safety
- Medicines licensing
- Medicines administration
- Formulations
- Adverse drug reactions
- Clinical governance and safeguarding

RPS Faculty Advanced (Stage 1) skills in paediatric practice: Application of core knowledge of common paediatric conditions and their monitoring and the medicines used to treat them such as:

- Common Paediatric infections
- Endocrinology: diabetes and diabetic ketoacidosis and nocturnal enuresis
- Respiratory: Childhood Asthma, Croup, Cystic Fibrosis, Bronchiolitis and allergies and anaphylaxis treatment.
- Gastroenterology: GORD, Constipation and Diarrhoea and TPN
- Paediatric post-operative care: Nausea and Vomiting, Local anaesthetics, Analgesia in children, DVT prophylaxis and Fluid management
- Estimation of renal function
- Neurology: Epilepsy and ADHD
- Common dermatology conditions
- Treatment of common toxicities in children
- Basic principles of palliative care in children and introduction to ALL

- *Neonatology*
- *Cardiac defects and cardiomyopathy*

Learning Activities

The module will be delivered via distance learning through the university's Blackboard platform. A range of learning activities will be undertaken, which may include videos, recorded lectures, directed reading, information acquisition activities, and self-assessment tests. The module comprises a series of sections, each of which has a set of learning objectives. Students will receive background information relevant to each section's set of objectives and appropriate additional activities to support learning

Notes

This module forms part of the CPD in Medicines Use in Paediatrics and Neonates. The module will be delivered via distance learning through the university's Blackboard platform.