

Module Details	
Module Title	Pregnancy and Paediatric Blood Science
Module Code	BIS6015-A
Academic Year	2021/2
Credits	10
School	School of Chemistry and Biosciences
FHEQ Level	FHEQ Level 6

Contact Hours	
Type	Hours
Tutorials	5
Laboratories	20
Directed Study	75

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 1

Module Aims
The aim of this module is to enable the student to understand and gain experience of the application and delivery of a range of specialised methods and techniques from the blood sciences.

Outline Syllabus
Use of reference ranges during pregnancy, in neonates and in children. Tests of conception and pregnancy monitoring. Immunological mechanisms in implantation and pregnancy and protection of the neonate against infection. Antenatal screening tests for fetal abnormalities of haemolytic disease of the newborn, fetomaternal haemorrhage and fetal abnormality. Investigation of inborn errors of metabolism and biochemical abnormality in neonates and children (hypoglycaemia hyperammonaemia, calcium and phosphate disorders, pubertal disorders). Tests for diagnosis and management of haematological malignancy in children.

Learning Outcomes	
Outcome Number	Description
01	Understand and evaluate the application of methods and techniques used in pregnancy and paediatric blood science and illustrate their value in relevant areas of clinical practice.
02	Understand conception and pregnancy monitoring and how to protect the neonate from infection.
03	Analyse neonatal screening tests for foetal abnormality and haemolytic disease of the newborn.
04	Describe investigations into inborn errors of metabolism, biochemical abnormality in neonates and children and the management of haematological malignancy in children.
05	Effectively manage your workload, resources and work successfully to a deadline. Demonstrate personal responsibility for self-directed learning and time management.
06	Communicate clearly and concisely with correct use of terminology to answer questions and discuss a specialist topic.
07	Clarify factors which may influence the type and detail of advice you provide.
08	Clearly convey information and results in detail. HCPC standards addressed: (HCPC 2, 4, 5, 8, 9, 10, 11, 13, 14, 15)

Learning, Teaching and Assessment Strategy
This is a bespoke module using external lecturers and practitioners and will be delivered via intensive block teaching in situ in external NHS Trusts followed by assessment.

Mode of Assessment			
Type	Method	Description	Weighting
Summative	Dissertation or Project Report	A piece of independent writing (essay) 0-2500 words	80%
Summative	Examination - MCQ	A paper-based MCQ assessment of the training delivered in the NHS Trust (1 Hr)	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.