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MODULE DESCRIPTOR

Module Title

Diagnostic Blood Sciences

Reference	AS4501	Version	1
Created	September 2017	SCQF Level	SCQF 10
Approved	February 2018	SCQF Points	30
Amended		ECTS Points	15

Aims of Module

To provide students with the ability to apply principles of haematology, transfusion science and clinical biochemistry to the diagnosis, treatment and monitoring of disease, including evaluation and interpretation of clinical data.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

1	Interpret results from the analysis of blood.
2	Discuss the principles of biochemical investigations used in the diagnosis, treatment and management of inborn errors of metabolism and/or hereditary malignant disease.
3	Discuss the principles and uses of therapeutic drug monitoring and how substances of abuse can be investigated.
4	Discuss the principles of investigations used in the diagnosis, treatment and management of haematological disorders and complications of transfusion.

Indicative Module Content

Haematological diseases: anaemias, haematological malignancies, haemorrhagic and thrombotic diseases. Transfusion science: Transfusion reactions, haemolytic disease of the foetus and new born. Clinical Biochemistry: Inborn errors of metabolism and hereditary disease, genetic and biochemical basis of inherited disease, clinical consequences of common inherited diseases, management of inherited disease, mass screening and laboratory investigations. Therapeutic drug monitoring (TDM) and toxicology.

Module Delivery

This is a lecture based course supplemented with tutorials and practical laboratory sessions, elearning and case studies involving interpretation of clinical laboratory data.

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Indicative Student Workload	Full Time	Part Time
Contact Hours	48	N/A
Non-Contact Hours	252	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	300	N/A
Actual Placement hours for professional, statutory or regulatory body		

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Type:	Examination	Weighting:	70%	Outcomes Assessed:	2, 3, 4
Description:	Closed book examination.				

Component 2

Type:	Coursework	Weighting:	30%	Outcomes Assessed:	1
Description:	Analysis of clinical laboratory data or images.				

MODULE PERFORMANCE DESCRIPTOR

Explanatory Text

The module is assessed using the two components of assessment detailed in the Assessment plan. To pass this module, candidates must achieve a Module Grade D or better.

Module Grade	Minimum Requirements to achieve Module Grade:
A	Final aggregate mark of 70% or greater and a minimum of 35% in C1 and C2.
B	Final aggregate mark of between 60-69% and a minimum of 35% in C1 and C2.
C	Final aggregate mark of between 50-59% and a minimum of 35% in C1 and C2.
D	Final aggregate mark of between 40-49% and a minimum of 35% in C1 and C2.
E	MARGINAL FAIL. Final aggregate mark of between 35-39% and a minimum of 35% in C1 and C2.
F	FAIL. A mark of less than 35% in either component.
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements

Prerequisites for Module	Successful completion of Stage 3 of the course, or equivalent.
Corequisites for module	None.
Precluded Modules	None.

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INDICATIVE BIBLIOGRAPHY

1	MOORE, G., KNIGHT, G. and BLANN, A., 2016. *Haematology*. 2nd Ed. Oxford University Press.
2	KNIGHT, R., 2012. *Transfusion and Transplantation Science.* Oxford University Press.
3	HALL, A. and YATES, C., 2010. *Immunology*. Oxford University Press.
4	OVERFIELD, J., DAWSON, M. and HAMER, D., 2008. *Transfusion Science*. 2nd Ed. Scion Publishing Ltd.
5	PALLISTER, C. and WATSON, M., 2010. *Haematology*. 2nd Ed. Scion Publishing Ltd.
6	AHMED, N. *Clinical Biochemistry. Current Edition. Oxford University Press.*