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## MODULE DESCRIPTOR

### Module Title

Clinical Immunology

Reference	AS3901	Version	3
Created	January 2018	SCQF Level	SCQF 9
Approved	May 2011	SCQF Points	15
Amended	February 2018	ECTS Points	7.5

### Aims of Module

To provide students with the ability to discuss the molecular and cellular basis of diseases affecting the immune system, and the applications of immunological techniques designed to diagnose and monitor them.

### Learning Outcomes for Module

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

- 1 Discuss lymphocyte activation and control, and the interaction of the immune system with antigen.
- 2 Explain the immunology of hypersensitivity, autoimmunity, immunodeficiency, transplantation and cancer.
- 3 Explain the features and applications of immunoassays in the diagnosis and monitoring of diseases affecting the immune system.

### Indicative Module Content

Lymphocyte Activation & Control: first and second signals, accessory molecules, soluble immunoregulators (cytokines, interleukins, chemokines). Defence against Infection: vaccination, subversion by pathogens, superantigens. Hypersensitivity : types I to V. Autoimmunity: MHC, rheumatological (SLE, RA, autoantibodies) and kidney (Goodpastures) and organ-specific (thyroid, coeliac, pernicious anaemia, diabetes) diseases. Immunodeficiency: Complement, primary (T & B & NK cell) and secondary (HIV). Transplantation: rejection, solid organs, bone marrow. Cancer : tumour antigens, evasion. Immunoassays: haemagglutination, RIA, ELISA, tissue typing, functional assays.

### Module Delivery

This is a lecture based module supplemented by tutorials and group discussions.

### Indicative Student Workload

	Full Time	Part Time
Contact Hours	40	N/A
Non-Contact Hours	110	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	150	N/A
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

**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
Description:	Extended response questions				

**Component 2**

Type:	Coursework	Weighting:	30%	Outcomes Assessed:	1
Description:	Problem solving exercise				

**MODULE PERFORMANCE DESCRIPTOR****Explanatory Text**

This module is assessed using the two components of assessment as 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:
<b>A</b>	Final aggregate mark of 70% or greater and a minimum of 35% in C1 and C2
<b>B</b>	Final aggregate mark of between 60-69% and a minimum of 35% in C1 and C2
<b>C</b>	Final aggregate mark of between 50-59% and a minimum of 35% in C1 and C2
<b>D</b>	Final aggregate mark of between 40-49% and a minimum of 35% in C1 and C2
<b>E</b>	MARGINAL FAIL. Final aggregate of between 35-39% and a minimum of 35% in C1 and C2
<b>F</b>	FAIL. A mark of less than 35% in either component
<b>NS</b>	Non-submission of work by published deadline or non-attendance for examination

**Module Requirements**

Prerequisites for Module	Successful completion of Stage 2 of the course, or equivalent.
Corequisites for module	None.
Precluded Modules	None.

**INDICATIVE BIBLIOGRAPHY**

- 1 HALL, A., SCOTT, C., and BUCKLAND, M. *Clinical Immunology*. Current edition. Oxford University Press.
- 2 DELVES, P.J., MARTIN, S.J., BURTON, D.R and ROITT, I.M. *Roitt's Essential Immunology*. Current Edition. Wiley-Blackwell Publishing.