

Liverpool John Moores University

Title: LABORATORY INVESTIGATION OF DISEASE 'A'
Status: Definitive
Code: **6000BMBMOL** (101482)
Version Start Date: 01-08-2018

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

Team	Leader
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Academic Level: FHEQ6 **Credit Value:** 24 **Total Delivered Hours:** 46

Total Learning Hours: 240 **Private Study:** 194

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	30
Seminar	5
Tutorial	5
Workshop	4

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	3 essay topics from a choice of 6.	40	2
Report	AS2	A case study linked to tutorials (group work)	30	
Report	AS3	An assignment linked to lecture material.	30	

Aims

To provide an integrated knowledge of human pathological processes and the laboratory methods used to study disease.

Learning Outcomes

After completing the module the student should be able to:

- 1 discuss the scientific basis of pathological processes associated with the cardiovascular, renal and respiratory systems.
- 2 justify the choice of investigative procedures used in studying human disease.
- 3 discuss the function and structure of the classical laboratory disciplines used in clinical pathology.
- 4 demonstrate the ability to apply critical thinking when presented with a case scenario.

Learning Outcomes of Assessments

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

EXAM	1	2	3
REPORT 1	2	4	
REPORT 2	1	2	3

Outline Syllabus

The syllabus will focus on the pathophysiology and laboratory investigations associated with the following systems: Blood/cardiovascular; Renal; Respiratory.

Blood/cardiovascular: Iron deficiency, disorders of platelets and neutrophils, coagulation and atherosclerosis.

Renal: Urine composition, classification of renal disease, laboratory investigations including urinalysis and proteinuria, infections of the urinary tract.

Respiratory: Characteristics of acid - base disorders (acidosis and alkalosis), laboratory investigations and respiratory tract infections.

Learning Activities

Material will be delivered through lectures of two types; those which focus on the pathophysiology and those which focus on laboratory investigations. Students will also undertake a group 'Case Study' which will be linked to tutorials and which will involve problem solving and team work. The outcome of this group work will be

presented as a seminar and written report.

Notes

This module, together with the linked module Laboratory Investigation of Disease B, will provide students with an understanding of the scientific basis of clinically important diseases and the laboratory methods used to study them at the molecular, cellular, tissue and organ level.