

Liverpool John Moores University

Title: TRANSFUSION TRANSMITTED VIRUS INFECTIONS AND XENOTRANSPLANTATION
Status: Definitive
Code: **7011NMBMOL** (101586)
Version Start Date: 01-08-2011

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

Team	Leader
Jeffrey Connell	Y

Academic Level: FHEQ7 **Credit Value:** 6.00 **Total Delivered Hours:** 4.00
Total Learning Hours: 60 **Private Study:** 56

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Tutorial	2.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Theory paper (2 hours) comprising 8 short answer-type and any TWO from FOUR essays. A minimum mark of 40% is required to pass the examination.	30.0	2.00
Essay	AS2	One assignment (full guidance notes provided). A minimum mark of 40% is required to pass the	70.0	

Aims

To provide students with an understanding of the need to detect the presence of viruses in blood and blood products and to review the methodology, costs

effectiveness, problems, legal implications and the importance of newly recognised viral agents.

Learning Outcomes

After completing the module the student should be able to:

- 1 recognise the need to examine blood and blood products for viral agents
- 2 evaluate the health and safety implication for laboratory staff and patients
- 3 describe and evaluate the use of detection methods and their limitations
- 4 recognise the difficulties associated with newly recognised viral agents in blood and blood products

Learning Outcomes of Assessments

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

EXAM	1	2	3	4
CW	1	2	3	4

Outline Syllabus

The necessity of screening for blood-borne agents
Important viral agents in blood and blood products
The problems and practicalities of screening large numbers of sera
Quality control in donor screening
Medico-legal implications (lessons from HIV and HCV, recipient screening and follow-up etc.)
Screening for HIV, HBV and HCV - cost effectiveness
Positive donations - is there a use for them?
Screening for other agents such as CMV
Newly recognised viruses and future prospects
Viruses associated with organ transplantation and immunosuppression, modes of acquisition, laboratory diagnosis.
The risks associated with xenotransplantation

Learning Activities

Primary mode by distance learning with tutorial support and assignment feedback

References

Course Material	Book
Author	Mushahwar, I.K et al

Publishing Year	2001
Title	Recently discovered blood-borne viruses
Subtitle	
Edition	
Publisher	Forum (Geneva)
ISBN	11298122

Course Material	Book
Author	Martyn, C
Publishing Year	2001
Title	Xenotransplantation
Subtitle	
Edition	
Publisher	BMJ
ISBN	3221552

Notes

Students must achieve an aggregate mark for the examination and coursework of at least 40% with at least a 40% pass in BOTH coursework and examination components.

Only TWO indicative references are provided here. Selected up to date reviews and other scientific papers are required to complete key distance learning stages and assignments which are regularly updated in the module Guidance Notes. Students are expected to complete their own detailed literature search to support the reference material provided. A critical analysis of the scientific literature is always required.