

## Liverpool John Moores University

Title: BLOOD-BORNE VIRAL INFECTIONS AND SEXUALLY TRANSMITTED INFECTIONS  
Status: Definitive  
Code: **7004VMBMOL** (113123)  
Version Start Date: 01-08-2015

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

Team	Leader
Katie Evans	Y

**Academic Level:** FHEQ7      **Credit Value:** 20.00      **Total Delivered Hours:** 43.00  
**Total Learning Hours:** 200      **Private Study:** 157

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Tutorial	40.000

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	EXAM	Written examination	60.0	3.00
Report	AS1	One written assignment, worth 40% of module mark	40.0	

### Aims

1. To introduce students to the study of viruses transmitted by blood, body fluids, sexual secretions and by sexual activity
2. To develop an understanding of the risks of viral transmission by transfusions, transplants, tattoos, scarification and needle-sharing, and high risk sexual activities, and the potential long-term effects on individuals, their partners and their children
3. To review and evaluate the laboratory and symptomatic diagnosis of these viral infections

4. To place in context the life-style effects of these infections

## Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate a systematic understanding of the basic structure, components and all pervasive nature of blood and the immune system and how viruses utilise this in their spread
- 2 Compare how the various viruses may interact with the host in acute disease, and more particularly when causing chronic effects with developing fatal outcomes
- 3 Critically discuss the methods of viral transmission and replication in relation to infection and disease and options for vaccination, prevention and control
- 4 Critically evaluate the types of virus-host cell relationships important in these disease processes, and the effects on the immunocompromised host

## Learning Outcomes of Assessments

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

EXAM	1	2	3	4
RPT1	1	2	3	4

## Outline Syllabus

*The basic structure and components of blood in relation to viral infections*  
*Viruses transmitted by blood and blood products (HBV and delta, HCV, HIV, HHV-8, CMV)*  
*Viruses causing actual infection of the genital tract by skin-to-skin contact (HSV-1, HSV-2, HPV)*  
*Viruses transmitted sexually by blood and body fluids (HBV, HIV, HSV-1, HSV-2, CMV)*  
*HHV-8 infection of the central nervous system*  
*Other hepatitis viruses (HAV, HEV)*  
*Acute and chronic viral infections, persistence and latency, virulence, quasispecies*  
*Mechanisms of viral transmission and infection; development of chronicity, long-term carcinogenesis and immunodeficiency*  
*The long-term consequences of chronicity, STIs and immunodeficiency and the effects on children and the immunocompromised host*  
*Passive and active vaccination, therapy and antiviral drugs*  
*Life-style relationships between viral and other STIs*

## Learning Activities

Distance learning with tutorial support

Learning materials delivered by VLE (Blackboard) to include directed reading, online lectures, online assessments with feedback, online discussions

## **Notes**

There will be particular emphasis on developing independent learning skills and IT capability to access and extract relevant scientific information via Blackboard and databases available from LJMU. Online literature searches and evaluation of relevant scientific and popular literature will be key aspects, together with development of communication skills. An interactive reading list, including e-texts, will be made available via VLE.

This module will be offered as a single module CPD.