Liverpool John Moores University

Title:	BLOOD-BORNE VIRAL INFECTIONS AND SEXUALLY TRANSMITTED INFECTIONS
Status:	Definitive
Code:	**7104VMBMOL** (123651)
Version Start Date:	01-08-2021
Owning School/Faculty:	Pharmacy & Biomolecular Sciences
Teaching School/Faculty:	Pharmacy & Biomolecular Sciences

Team	Leader
Katie Evans	Y

Academic Level:	FHEQ7	**Credit Value:**	20	**Total Delivered Hours:**	42
Total Learning Hours:	200	**Private Study:**	158		

Delivery Options
Course typically offered: Standard Year Long

Component	Contact Hours
Tutorial	40

Grading Basis: 50 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam	Written examination	60	2
Report	Report	Report	40	

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
Report	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.

ADDITIONAL INFORMATION REQUIRED FOR SINGLE-MODULE CPD AWARDS (in lieu of a Programme Specification)

No specific benchmarks are available for this module, but the learning outcomes at least meet, if not exceed, those stipulated in the relevant qualification descriptors for a higher education qualification at level 7 (Master's degree characteristics) as defined by QAA, Sept 2015. The module has also been informed by the benchmark statement for Biomedical Science June 2015.

The module is delivered by Blackboard, which is supported by a Virology Tutor. Study mode is part-time distance learning and lasts for 2 semesters. Attendance is only required for the module examination. Intake is every September.

The criteria for admission to the module require that candidates meet the criteria for admission to the MSc Virology programme (31066).

The final award is Continuing Professional Development in Blood-borne Viral Infections and Sexually Transmitted Infections, 20 credits at Level 7.

The students have access to a module Blackboard site and the University's other range of electronic support such as access to the electronic library facilities. The module content is regularly updated on the Blackboard site including contemporary reading lists and links to journal articles. Students have access to the community site for Virology. All students are assigned a personal Virology Tutor for support and guidance through the module, this maybe via email or online tutorials. There is also access to the module leader through phone contact and email. Module and CPD guides are also provided, which provide a range of information.

The programme is assessed and run in line with the Academic Framework http: //www.ljmu.ac.uk/eaqs/121984.htm

The module is accredited by The Institute for Biomedical Science (Sept 2015- Aug 2020). The module forms part of the MSc Virology programme (30966) which was reviewed in June 2016.

The methods for improving the quality and standards of learning are as follows:
• Annual monitoring Review;

• Liaison and feedback from the students;
• Reports from External Examiner;
• Programme team ensuring the module reflects the values of the current teaching and learning strategy;
• Module leader and/or Specialist Virology author updating knowledge and skills to ensure these remain current and relevant.

The module is included in the programme specification for the MSc Virology programme (31066). The module is aligned with the same MSc Virology module for annual monitoring and external examining purposes.