

Liverpool John Moores University

Title: VIRAL ZOOSES
Status: Definitive
Code: **7005VMBMOL** (113124)
Version Start Date: 01-08-2015

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

Team	Leader
George Sharples	Y
Joanne Foulkes	

Academic Level: FHEQ7 **Credit Value:** 10 **Total Delivered Hours:** 23
Total Learning Hours: 100 **Private Study:** 77

Delivery Options

Course typically offered: Summer

Component	Contact Hours
Tutorial	20

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Written	Theory exam	100	3

Aims

1. To develop an understanding of those viruses transmitted by insect vectors for which humans and other animals are often dead-ends as hosts
2. To develop an understanding of those viruses transmitted to humans by other mammalian vectors and their role in emerging viral diseases
3. To critically evaluate the problems of controlling viral infections spread by insects and mammals

Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate an in-depth knowledge of the various viruses transmitted by insects, mammals such as bats and rodents, and their effects
- 2 Discuss the transmission of these viruses amongst their host species, the diseases they cause and evaluate their worldwide effects
- 3 Critically evaluate the strategies for survival these viruses employ, and the potential control mechanisms available to prevent infections in humans and important veterinary species

Learning Outcomes of Assessments

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

Exam	1	2	3
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Outline Syllabus

Important zoonotic infections (Yellow Fever, Dengue, West Nile, Lassa Fever, Ebola, Hantaviruses, Nipah, Rabies)

Symptoms and effects of acute viral infections with these viruses

Zoonotic and epizootic infections and emerging viral diseases

The worldwide economic impact of these infections

Control of rodents, bats and insect diseases

The consequences of illegal and legal importation of exotic animals and 'bushmeat'

Passive and active vaccination, antiviral drugs and control

Potential effects on zoonotic infections of global warming, deforestation, agricultural changes, water shortages etc.

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.

