

## Liverpool John Moores University

Title: VIRAL INFECTIONS OF THE RESPIRATORY AND ALIMENTARY TRACTS  
Status: Definitive  
Code: **7002VMBMOL** (113121)  
Version Start Date: 01-08-2015

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

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

### Delivery Options

Course typically offered: Semester 1

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
Essay	AS1	One coursework assignment	40.0	

### Aims

1. To introduce students to the specialised anatomy and histology of the respiratory and alimentary tracts and their pathology
2. To provide students with current knowledge of the viruses causing respiratory tract and alimentary tract diseases
3. To extend knowledge and appreciation of the epidemiology, diagnosis and control

*of these infections*

## **Learning Outcomes**

After completing the module the student should be able to:

- 1 Demonstrate a systematic understanding of the anatomy and ultrastructure of the respiratory and alimentary tracts and the viruses related to them
- 2 Discuss the various effects of viral and related infections of these systems and explain how these can be controlled
- 3 Distinguish between the relevant methods of viral transmission and reproduction in relation to these systems, and the roles of host immunity and viral mutation
- 4 Appraise the epidemiology of these viral infections and means of their control
- 5 Critically evaluate the effects of these viruses in different age-groups and against a background of various underlying disease and nutritional states, with particular emphasis on the immunocompromised host

## **Learning Outcomes of Assessments**

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

EXAM	1	2	3	4	5
Essay	1	2	3	4	5

## **Outline Syllabus**

*Anatomy of the respiratory tract and gastro-intestinal tract*

*Groups of viruses causing respiratory and gastro-intestinal infections*

*(Orthomyxoviruses; Paramyxoviruses; Rhinoviruses; Coronaviruses; Adenoviruses; Metapneumoviruses; Noroviruses; Caliciviruses; Astroviruses)*

*The role of animal hosts as sources of these viruses*

*Social factors encouraging spread of these infections*

*Laboratory and symptomatic diagnosis of these infections*

*Unusual manifestations in the central nervous system of acute influenza infection*

*Epidemics and pandemics*

*The consequences of immunity, partial immunity, nutritional state and viral mutation in relation to viral infections with emphasis on the immunocompromised host*

*Passive and active vaccination and antiviral drugs*

## **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.