

## Liverpool John Moores University

Title: VIRAL INFECTIONS OF THE RESPIRATORY TRACT  
Status: Definitive  
Code: 7006NMBMOL (101581)  
Version Start Date: 01-08-2011

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

Team	Leader
Helen Smalley	Y

**Academic Level:** FHEQ7  
**Credit Value:** 12.00  
**Total Delivered Hours:** 7.00  
**Total Learning Hours:** 120  
**Private Study:** 113

### Delivery Options

Course typically offered: Runs Twice - S1 & S2

Component	Contact Hours
Tutorial	4.000

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Theory paper (3 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	3.00
Essay	AS2	One assignment (full guidance notes provided). A minimum mark of 40% is required to pass the assignment.	70.0	

### Aims

*To provide students with current knowledge of the multiplicity of viruses involved in respiratory tract diseases of selected animals and humans. The importance of laboratory methods for detection and identification will be developed to include*

*aspects of epidemiology and surveillance. Emphasis will also be placed on the prevention and treatment of infections.*

## **Learning Outcomes**

After completing the module the student should be able to:

- 1 evaluate the multiplicity of agents which may infect the Respiratory Tract including their biological features, pathology and disease
- 2 critically appraise the transmission, persistence and possible zoonotic involvements of respiratory viruses together with their laboratory detection and identification
- 3 explain and evaluate the methods of treatment, control and eradication

## **Learning Outcomes of Assessments**

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

EXAM	1	2	3
ESSAY	1	2	3

## **Outline Syllabus**

*Introduction to the anatomy of the respiratory tract (both upper and lower, macroscopic and microscopic, with definitions of clinical disease e.g. croup, pneumonia)*

*Rhinovirus and Coronavirus infections*

*Respiratory Syncytial Virus infections (pathology in neonates, infants and adults)*

*Adenovirus infections of the Respiratory Tract*

*Parainfluenza virus infections*

*Coxsackie A21 (coe) Virus and other Enterovirus infections of the Respiratory Tract*

*Atypical and viral pneumonias (chlamydia, mycoplasmas and Q fever)*

*Influenza A virus - Structure and function, symptoms and pathology*

*Epidemiology and pandemics, mutations and zoonosis*

*Diagnosis and culture, vaccines and antivirals*

*Influenza B virus*

*Influenza C virus*

*SARS*

*Pneumovirus*

*Veterinary implications:-*

*Avian infections of the Respiratory Tract*

*Equine infections of the Respiratory Tract*

*Respiratory disease in swine and cattle*

*Case studies of viral respiratory infections*

*a)domestic animals*

*b)other wild animals*

## **Learning Activities**

Primary mode by distance learning with tutorial support and assignment feedback

## References

<b>Course Material</b>	Book
<b>Author</b>	Schmidt, A.C., Couch, R.B., Galasso, G.J., Hayden, F.G., Mills, J., Murphy, B.R., Chanock, R.M.
<b>Publishing Year</b>	2001
<b>Title</b>	Current Research on respiratory viral infections: Third International Symposium
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Antiviral Research, 2001, 50:3:157-196
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Treanor, J. and Falsey, A.
<b>Publishing Year</b>	1999
<b>Title</b>	Respiratory viral infections in the elderly
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Antiviral Research, 1999, 44:2:79-102
<b>ISBN</b>	

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## 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.