

Liverpool John Moores University

Title: HUMAN AND VETERINARY VIRAL GASTROENTERITIS
Status: Definitive
Code: 7014NMBMOL (101589)
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: 6.00
Total Delivered Hours: 4.00

Total Learning Hours: 60
Private Study: 56

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Tutorial	2.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	One assignment (full guidance notes provided). A minimum mark of 40% is required to pass the assignment.	70.0	
Exam	AS2	TWO from FOUR essays. A minimum mark of 40% is required to pass the examination.	30.0	2.00

Aims

To review those viruses associated with outbreaks of gastroenteritis and to critically appraise methods for laboratory diagnosis. Student will be expected to become familiar with biology and epidemiology of the major viral pathogens.

Learning Outcomes

After completing the module the student should be able to:

- 1 review the biology of viral agents causing gastroenteritis
- 2 understand the mechanisms by which these viral agents initiate symptoms of disease
- 3 critically evaluate laboratory methods for the diagnosis of viral gastroenteritis
- 4 describe and evaluate the national and global consequences of viral gastroenteritis and future trends for its prevention and treatment

Learning Outcomes of Assessments

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

ESSAY	1	2	3	4
EXAM	1	2	3	4

Outline Syllabus

Introduction to GE (role in world-wide disease, differential diagnosis of bacterial and viral causes, significance in young, GE as a preventable mortality)
An introduction to the basic anatomy and physiology of the intestinal tract
Current diagnostic methods in gastroenterology (diversity of the viruses involved, use and limitations, advantages and disadvantages of the E/M in GE diagnosis)
Human and animal Rotaviruses (structure, classification, epidemiology, replication and pathology. Symptoms, diagnosis, control, therapy and vaccines)
Enteric Adenoviruses (human and animal) - as above
Astroviruses (human and animal) - as above
Caliciviruses (human and animal) - as above
Norwalk and Norwalk-like viruses - as above
Other viruses associated with GE Epidemiology and economic impact of GE
Future trends and problems

Learning Activities

Primary mode by distance learning with tutorial support and assignment feedback

References

Course Material	Book
Author	Kirkwood C
Publishing Year	2004
Title	Viral gastroenteritis in Europe: a new norovirus variant?

Subtitle	The Lancet
Edition	363, Issue 9410, Pages 671-672
Publisher	
ISBN	

Course Material	Book
Author	Lopman B, Vennema H et al
Publishing Year	2004
Title	Increase in viral gastroenteritis outbreaks in Europe and epidemic spread of new norovirus variant
Subtitle	The Lancet
Edition	363, Issue 9410, Pages 682-688
Publisher	
ISBN	

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.