

Liverpool John Moores University

Title: VIRAL HEPATITIS
Status: Definitive
Code: 7008NMBMOL (101583)
Version Start Date: 01-08-2011

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

Team	Leader
Ian Collacott	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 an understanding of the importance and epidemiology of hepatitis viruses. Particular emphasis will be given to laboratory techniques for diagnosis and prognosis together with methods for prevention and treatment.

Detailed consideration will be given to newly recognised viral pathogens and the development of new diagnostic and epidemiological "tools".

Learning Outcomes

After completing the module the student should be able to:

- 1 demonstrate knowledge and understanding of the range of viruses associated with liver infections including an understanding of their biology and epidemiology
- 2 evaluate the laboratory methods used in the differential diagnosis of viral hepatitis with particular emphasis on their interpretation and consequences for the patient
- 3 describe and evaluate the routes of transmission and long term effects associated with chronic infection
- 4 recognise the importance of newly recognised viruses and the development of new diagnostic methods

Learning Outcomes of Assessments

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

EXAM	1	2	3	4
ESSAY	1	2	3	4

Outline Syllabus

General aspects of hepatitis (diversity of the viruses involved, significance in various parts of the world, acute and chronic hepatitis, long-term effects)

Pathology of hepatic infection and development of disease (including LFTS)

Transmission of viral hepatitis (faecal-oral, parenteral, sexual and vertical modes, risk groups and the carrier state)

Faecal-Oral transmitted hepatitis - Hepatitis A Virus (HAV)

Hepatitis E Virus (HEV)

Parenterally transmitted hepatitis - Hepatitis B Virus (HBV)

Pathology of chronic infections (cirrhosis and hepatocellular carcinoma)

Hepatitis Delta Virus (HDV)

Hepatitis C Virus (HCV)

Newly recognised hepatitis viruses F, G and beyond

Sexual and vertical transmission of hepatitis, neonatal hepatitis and the effects of co-infections with different hepatitis viruses

Differential diagnosis and monitoring of hepatitis infections

Management of chronic infections (Interferons, transplantation etc.)

Vaccines against hepatitis (vaccine failures, mutants and novel vaccine strategies)

New hepatitis viruses and animal hepatitis virus models

The economics of control and prevention, and future prospects

Learning Activities

Primary mode by distance learning with tutorial support and assignment feedback

References

Course Material	Book
Author	Hilleman, M.R.
Publishing Year	2001
Title	Overview of the pathogenesis, prophylaxis and therapeusis of viral hepatitis B, with focus on reduction to practical applications.
Subtitle	Vaccine, 2001, 19: 15-16: 1837-1848
Edition	
Publisher	
ISBN	

Course Material	Book
Author	Jacobson Brown, P.M. Neuman, M.G.
Publishing Year	2001
Title	Immunopathogenesis of hepatitis C viral infection: Th1/Th2 responses and the role of cytokines.
Subtitle	Clinical Biochemistry, 34:3 167-171.
Edition	
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.