

Liverpool John Moores University

Title: Epidemiology, Surveillance and Public Health Intelligence
Status: Definitive
Code: **5012PUBHEA** (125906)
Version Start Date: 01-08-2021

Owning School/Faculty: Public Health Institute
Teaching School/Faculty: Public Health Institute

Team	Leader
Vivian Hope	Y
Ivan Gee	

Academic Level: FHEQ5 **Credit Value:** 20 **Total Delivered Hours:** 48

Total Learning Hours: 200 **Private Study:** 152

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	24
Practical	24

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	ASS2	2500 word report	60	
Presentation	ASS1	20 minute presentation	40	

Aims

This module will provide students with the foundations of epidemiology, and an introduction to population based health surveillance methods and public health intelligence.

Learning Outcomes

After completing the module the student should be able to:

- 1 Explain the main basic concepts used in epidemiology
- 2 Identify and assess the main forms of epidemiological study designs
- 3 Examine the role of public health surveillance and the limitations monitoring data
- 4 Analyse and interpret routine data on health and wellbeing and needs using basic analytical techniques

Learning Outcomes of Assessments

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

2500 word Report	1	2	4
20 minute Presentation	3		

Outline Syllabus

How to formulate a question

Measures of effect

Alternative explanations: Chance, bias and confounding

Study design

Communicable disease epidemiology

Social epidemiology

Surveillance systems for diseases and behaviours

Health needs assessment

Data analysis and presentation

Learning Activities

Mixture of lectures, class-based practicals, PC-lab practicals, group work, presentations. Online resources and discussion boards will also be used.

Notes

Epidemiology is the fundamental science underpinning public health. Students will gain a thorough understanding of the conceptual basics of epidemiology and their application to study design and interpretation. Surveillance systems for communicable disease, vaccination programmes, noncommunicable diseases, behaviours in both high and low-and-middle income countries will be considered. Alongside this students will learn the analytical techniques to inform public health intelligence including standardisation, mapping, trend analysis and presentation