

Liverpool John Moores University

Title: Public Health Epidemiology, Intelligence and Health Protection
Status: Definitive
Code: **7019PUBHEA** (128414)
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: FHEQ7 **Credit Value:** 20 **Total Delivered Hours:** 42

Total Learning Hours: 200 **Private Study:** 158

Delivery Options

Course typically offered: Semester 2

| Component | Contact Hours |
|-----------|---------------|
| Lecture | 32 |
| Online | 2 |
| Workshop | 6 |

Grading Basis: 50 %

Assessment Details

| Category | Short Description | Description | Weighting (%) | Exam Duration |
|--------------|-------------------|--|---------------|---------------|
| Exam | EXAM | An online exam covering all aspects of epidemiology and surveillance and some health protection concepts | 60 | 2 |
| Presentation | Pres | An annotated, non-delivered presentation document (powerpoint or similar) exploring epidemiological evidence and public health intelligence for a health protection response | 40 | |

Aims

*This module will provide students with:
The underpinning knowledge and skills required to apply epidemiological and population based public health intelligence to health risks and the health protection measures aimed at reducing them*

Learning Outcomes

After completing the module the student should be able to:

- 1 Critically appraise the core epidemiological concepts and key study designs.
- 2 Critically examine the role of public health surveillance and the limitations of monitoring data.
- 3 Critically analyse communicable and non-communicable risk factors which impact on population health.
- 4 Critically assess the effectiveness of policy and responses for the protection of the public's health, including roles and responsibilities of key organisations.

Learning Outcomes of Assessments

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

| | | | |
|------------------------|---|---|---|
| Exam (online) | 1 | 2 | 3 |
| Annotated Presentation | 2 | 3 | 4 |

Outline Syllabus

Epidemiological measures: incidence, prevalence, risk/odds ratios, standardised rates/impact of population structure, R0

- *Epidemiological concepts*
- *Epidemiological study designs*
- *Screening and immunisation*
- *Monitoring & intelligence*
- *Key health protection controls for communicable and environmental hazards*
- *Risk and risk communication*

Learning Activities

Lectures and in class discussion
Data exploration workshops
Canvas based online course materials: video, case studies etc

Notes

Epidemiology, Health Intelligence and Health Protection are core public health

disciplines that share some key approaches and methods. Epidemiological and health surveillance methods provide essential data which are used to determine suitable health protection strategies. This module will explore these 3 key areas and the relationships between them.