



Module code	EPID	NQF level	7
Credit value	20	Study duration	12 weeks

Epidemiology

Module description

This module introduces the principles and methods of epidemiology with a particular focus on the public health perspectives. It combines theoretical and practical approaches to enable students to access, analyse and interpret sources of health surveillance data.

This module aims to:

- Support students to understand the fundamental concepts of reporting risk, identifying causation and critically appraising statistical outcomes in research
- Enable students to act as more informed members of their public health environment

Learning outcomes

On completion of this module, students will be able to:

- understand the principles of epidemiology and its role in public health practice
- be able to analyse and interpret trends in surveillance data
- critique the limitations and applications of sources and types of population and health surveillance data

Syllabus

- The history of epidemiology and contemporary epidemiology
- Statistical and epidemiological concepts, including prevalence and incidence
- Descriptive statistics
- Inferential statistics including confidence intervals, p values and hypothesis testing
- Inferential statistics including odds ratios, relative risk and simple regression
- Sampling and sample size calculation
- Observational studies and standardisation
- Ethical issues and data sources in epidemiology
- Intervention studies and research reviews
- Critical review or appraisal
- Global surveillance and monitoring
- Epidemiology and social media

Learning and teaching methods

The learning and teaching methods for the module follow the intended online delivery strategy for the programme as a whole. The module will be delivered through the provision of specified reading materials on the virtual learning platform, which shall be supported by specified discussion forums and lecturecasts, and tutor support will be available to students via phone, email, and question and answer (Q&A) sessions.

Description of unit of assessment	Length/Duration	Submission date	Weighting
Written Assignment 1 - e.g. case study	2,500 words	Unit 6	50%
Written Assignment 2 - e.g. scenario study	2,500 words	Unit 12	50%