MH933-20 Health Screening

26/27

Department
Warwick Medical School
Level
Taught Postgraduate Level
Module leader
Chris Stinton
Credit value
20
Module duration
1 week
Assessment
100% coursework
Study location
University of Warwick main campus, Coventry

Description

Introductory description

Covering the underlying epidemiological principles, as well as ethics and policy issues, this module will help those who commission, run or evaluate screening programmes locally or nationally, as well as help those interested in policy and practice in population screening to understand the important issues.

Module aims

To give students an understanding of screening from a broad public health (population) perspective, including how to determine when screening is an appropriate intervention through analysis of ethical, performance and economic issues, and how screening programmes can be effectively monitored and improved.

Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

Criteria for Introducing Screening Programmes

- What screening is and how it differs from mainstream medicine
- Historical issues with screening programmes
- The popularity paradigm
- The Wilson and Jungner and UK National Screening Committee criteria
  Screening Test Performance
- Sensitivity, specificity, positive and negative predictive value
- ROC analysis and extensions
  Economics
- Assessment of QALY's in relation to screening programmes
- Allocative efficiency
  Ethical Issues
- Equity and access
- Public information for participation,
- The consequences of false positives and false negatives
- Antenatal issues
- Individual vs population perspective
  Quality Assurance
- QA at each stage of a screening programme
- Setting quality standards considering inherent limitations of screening
  Opportunity to meet and discuss these topics with experts from the UK National Screening Committee

Learning outcomes

By the end of the module, students should be able to:

- Demonstrate an understanding of the criteria used to evaluate whether a screening programme should be introduced, and the rationale behind such criteria.
- Calculate performance metrics including sensitivity and specificity from basic data about a screening programme, and use the data to assess if screening test meets the criteria for implementation
- Demonstrate an understanding of the key ethical issues associated with screening.
- Demonstrate an understanding of the issues associated with cost effectiveness of screening programmes
- Demonstrate an understanding of quality assurance spanning structure, process, and outcome for each stage of a screening programme
- Demonstrate enhanced group working, presentation, and writing skills.
- Enhanced understanding of major national public health programmes

Indicative reading list

Reading lists can be found in Talis

Subject specific skills

Sound understanding of subject

Critically evaluate
Reflection

Transferable skills

Numeracy
Thinking and problem solving
written communication
oral communication
Teamwork
Organisation & time management
Use of tools and technology
Commercial awareness
Independence and initiative
Adaptability/Flexibility

Study

Study time

Type	Required
Lectures	17 sessions of 1 hour (8%)
Seminars	2 sessions of 1 hour (1%)
Practical classes	9 sessions of 1 hour (4%)
Private study	97 hours (48%)
Assessment	75 hours (38%)
Total	200 hours

Private study description

97 hours of self-directed learning

Costs

No further costs have been identified for this module.

Assessment

You must pass all assessment components to pass the module.

Students can register for this module without taking any assessment.

Assessment group A3

Assessment component	Weighting	Study time	Eligible for self-certification
written assignment	100%	75 hours	Yes (extension)

In the module assessment we will ask you to answer a question about the introduction of a new screening programme based on the group work that you will undertake through the course. The module assignment will be explained in detail during the course.

Reassessment component is the same

Feedback on assessment

Written feedback will be provided in accordance with standard PGT assessment criteria

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Availability

Courses

This module is Core for:

- Year 1 of TMHS-B9A8 Postgraduate Award in Health Screening

This module is Optional for:

- Year 1 of TIMA-L981 Postgraduate Social Science Research
- Year 1 of TMDS-B9C2 Postgraduate Taught Health Research
- Year 1 of TMHS-B902 Public Health

This module is Option list A for:

- Year 1 of TMDS-B9C2 Postgraduate Taught Health Research
- Year 1 of TMHS-B902 Public Health