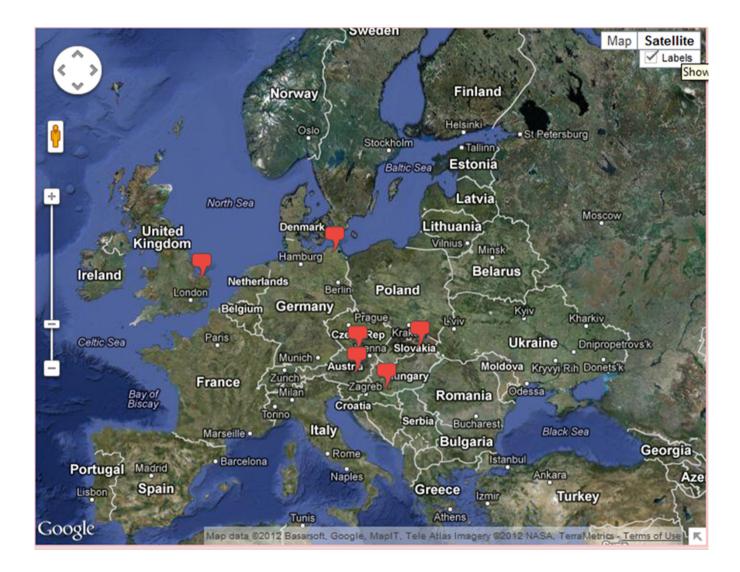
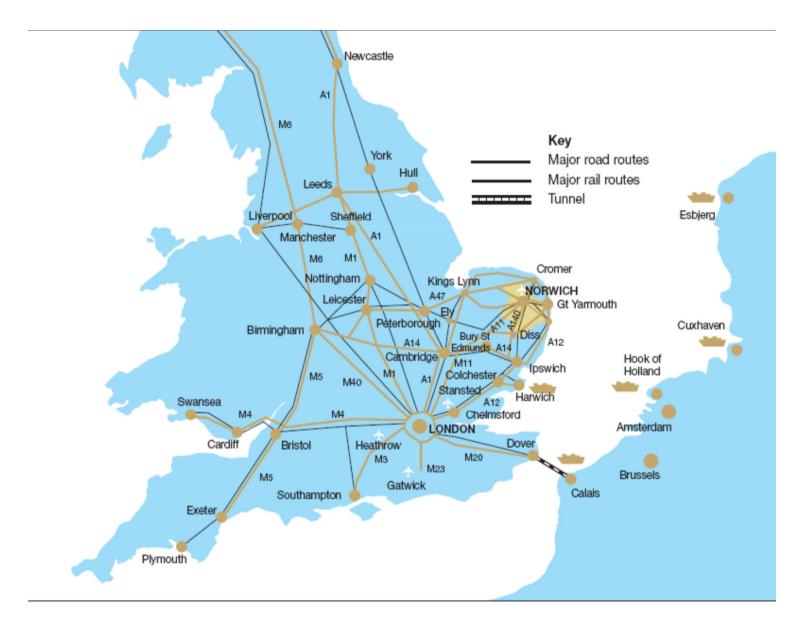


Development and structure of the 'Research Methodology and Epidemiology' Modules within the Master of Migration Health (MMH) programme

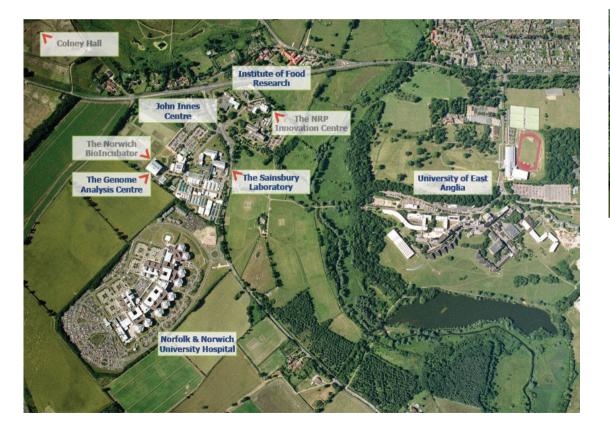
Presenters:







UEA and Norwich Research Park







Schools in the Faculty of Medicine and Health







Modules in the programme

The structure of the modules within the overall programme:

- M1: epidemiology and research methodology (P1 as leading partner)
- M2: environmental medicine and occupational health (P1 as leading partner)
- M3: economic / health economic impact of migration (P1 as leading partner)
- M4: organization and systems management (P2 as leading partner)
- M5: clinical and public health assessment (P3 as leading partner)
- M6: social and behavioural aspects of migration including multicultural, multi-religious aspects and their health / mental health impact (P5 as leading partner)

M1: Epidemiology and research methodology

Module aims and outcomes:

To enable students to extend and integrate knowledge and application of research methodology and epidemiology within the field of Migrant Health.

Epidemiology and research methodology

- Credit value: 15 ECTS
- **Teaching methods**: Lectures, Seminars and E-learning
- Overall contact hours: 150hrs

Epidemiology and research methodology

Indicative content

Research Methodology

- Introduction to Research Methodology (1ECTS/ 10 Contact hours)
 - Introduction and overview of the philosophical basis of research
 - Introduction to Migration Health Research
 - Introduction and overview of key methodologies and designs
 - Selecting and justifying a relevant design
 - The research process: Formulating and justifying a research problem
 - Topic selection: sources and techniques for generating topics, planning and literature review
 - Ethics and research design in the context of migration

Quantitative and Qualitative Research Methodologies (6ECTS/60ConHrs)

- Qualitative Research: philosophy, epistemology and its role in healthcare research
- Qualitative Research: types and designs
- Qualitative Research: data, data collection and establishing trustworthiness
- Qualitative Research: approaches to analysis
- Practical Bayesian Design and Analysis in Clinical Studies
- Observational and Analytical Research Methods

Quantitative and Qualitative Research Methodologies (6ECTS/60ConHrs)

- Advanced, Factor and Cluster Analysis of Survey Data
- Regression Analysis
- Research Methods for Randomized Controlled Trials
- Statistical and Methodological Issues in Randomized
 Clinical Trials
- Advanced Linear Models for Health Data
- Mixed Methods Research Designs for Health Services and Policy Research, Cases
- Discussions in the fields of experimental, quasiexperimental, survey, ethnography designs

Epidemiology

- Introduction to Epidemiology, and General Epidemiology (2ECTS/20 Contact hours)
 - □ A historical overview of epidemiology development.
 - Introduction and overview of epidemiological principles and concepts to include prevalence, incidence, burden of disease.
 - Overview of descriptive epidemiology, case reports, prevalence surveys, data sources.
 - Sub disciplines of epidemiology to include public health epidemiology, infectious disease epidemiology, social epidemiology, environmental epidemiology, occupational epidemiology and clinical epidemiology.

Determinants of health and disease (2ECTS/20ConHrs)

- Epidemiology of selected health concerns related to genetics, environment, social, economic, occupational and behavioral factors.
- Basic principles of a public health approach to the health of migrants to include population health
- Disparities in health status among migrants and indigenous population
- Migration process and impact on migrant health
- Access to healthcare, barriers for migrants, health inequities
- Most at Risk group of Migrants
- Ethical, ethnic and religious aspects

Epidemiology of communicable and noncommunicable diseases: disease patterns of country of origin and host country (4ECTS/40ConHrs)

- Defining infections, diseases and population
- Epidemiology of selected diseases
- Observational and Interventional studies
- Associations, relative vs. attributable risk, case control studies.
- Statistics in public health and epidemiology (definitions and tools, prevalence/ incidence, rates and ratios, concept of exposure)
- Random sampling error, confidence intervals,
- Selection bias,

Epidemiology of communicable and noncommunicable diseases: disease patterns of country of origin and host country (4ECTS/40ConHrs)

- Confounding factors
- Outbreaks epidemics, clusters endemics
- Surveillance methods in infectious diseases
- Disease prevention in public health
- Ways and modes of transmission of infective agents
- Principles of diagnostic, therapeutic, sanitary and preventive measures
- Traditional and molecular laboratory methods in epidemiology of infectious diseases
- Geographical epidemiology (morbidity profile of native vs. homing countries/geographical regions

Methods of assessment

- 1. Research proposal
- 2. The design of a community based epidemiological study

Dissemination and progress

- D'Cruz, G. and Horne, C. (2012) *Developing a European Masters level programme in Migrant Health: Opportunities, challenges and innovations in curriculum development.* The 1Xth European Conference of Nurse Educators with the RCN Forum International Conference. 3-5 October 2012. Cardiff.
- Piloting the module at UEA, Norwich

Thank you for listening