



Engaging Researchers

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Outline

- Aims of the programme
- Progress to date
- Need for the programme
- Future developments



C3 : Engaging Researchers

- Aims
 - To host a biennial conference *Exploiting Existing Data for Health Research*
 - To develop and deliver training programmes and workshops for EPR research
- Example topics include:
 - Introducing Scottish record linkage;
 - State-of-the-art methods in record linkage;
 - Statistical methods for analysing routinely collected health data;
 - Longitudinal modelling approaches;
 - Respecting personal privacy and information governance
- Both the conference and the training will be open to researchers from Scotland and the rest of the world



SHIP Training

- **Workshop : "Safe Havens across Scotland"**
 - University of Dundee, 26th May 2011
- **SHIP Biennial Conference**
 - University of St Andrews, 9th - 11th September 2011
- **Lecture: "Connecting Patients, Providers, and Payers"**
 - University of Dundee, 6th Mackenzie Lecture, 26th May 2011: Dr John Halamka, Harvard University
- **Workshop : "Supporting e-health records research in Scotland"**
 - University of Dundee, 26th May 2011
- **Workshop : "Joined-up Information Systems for Policy-Making: The Case for Cross-Sectoral Record Linkage in Scotland"**
 - British Medical Association, Edinburgh, 14th March 2011.
- **Workshop: "Information Governance & Patient Engagement"**
 - University of Dundee, 13th December 2010
- **Workshop: Secure Data Linkage and Access**
 - Royal Society of Edinburgh, 9th February 2010
- **SHIP Biennial Conference 2009 "Exploiting Existing Data for Health Research"**
 - University of St Andrews, 17th-19th September 2009.



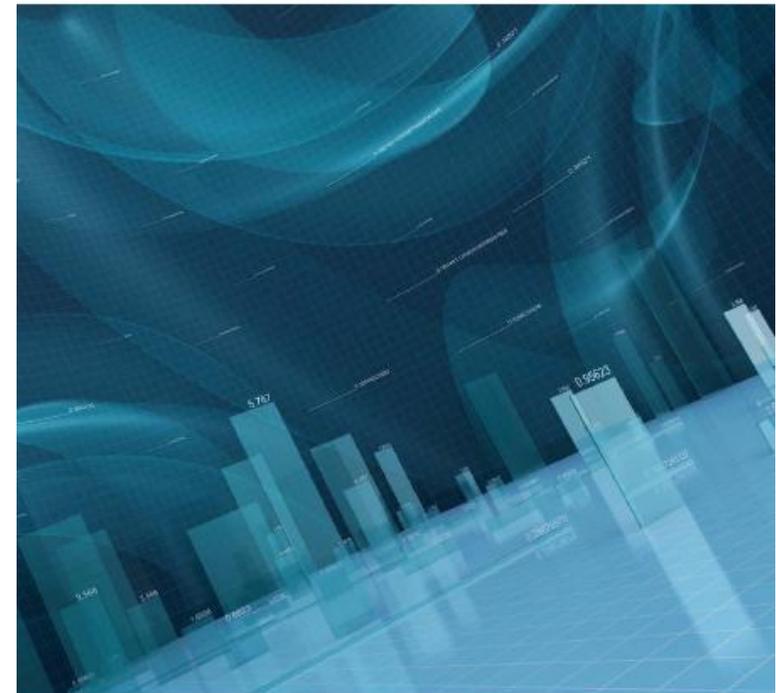
SHIP Training

- **Training: An Introduction to Bayesian Statistics Using WinBUGS**
 - University of Dundee: Nov/Dec 2012 (TBC): Professor Nicky Best
- **Training: Advanced Analysis of Linked Health Data**
 - University of St Andrews: 4-8 June 2012: Professor D'Arcy Holman
- **Training: Geographically Weighted Regression: A Two-day training workshop from the Applied Quantitative Methods Network (AQMeN)**
 - University of Dundee, 8th and 9th December 2011: Prof Stewart Fotheringham, National Centre for Geocomputation at NUI Maynoothbr and Dr Urška Demšar
- **Training: Statistical analysis with missing data using multiple imputation and inverse probability weighting**
 - University of St Andrews, 20th – 22nd June 2011: Dr Jonathan Bartlett LSHTM
- **Training: Modern Demographic Methods in Epidemiology**
 - University of St Andrews, 1-3 June 2010: Bendix Carstensen, University of Copenhagen, Denmark
- **Training: Advanced Analysis of Linked Health Data**
 - University of St Andrews: 6-10 April 2010: Professor D'Arcy Holman
- **Training: An Introduction to Analysis of Linked Health Data**
 - University of St Andrews: 12-16 September 2009: Professor D'Arcy Holman

MRC: UK e-health records research capacity and capability

- There is a shortage of people with the breadth of skills necessary to carry out the complex linkage and analyses required in health informatics research

UK e-health records research
capacity and capability
January 2011





MRC: UK e-health records research capacity and capability

- Identified 64 taught courses on Health Informatics
 - 14 Universities provided taught postgraduate courses
 - University of Dundee – public health with e-health records research
 - University of Edinburgh – health informatics and health information governance
- Survey respondents reported receiving training from 5 different courses (including SHIP)



MRC: UK e-health records research capacity and capability

- “...the only one that appeared specifically aimed at analysis of linked health data is the five-day course provided by Professor D’Arcy Holman and colleagues at the University of Western Australia...delivered...via SHIP in Scotland. The course gives:
 - an introduction to data linkage systems
 - characterising populations using linked data
 - measuring health and services using linked data
 - outcomes research using linked data
 - risk adjustment using linked data
- Although it has not been offered in the UK yet, there is also a follow-up five-day advanced course which offers training on the theory and practice of analysis of large sets of linked health data at an intermediate to advanced level”



MRC Report Conclusions

- There appears to be a lack of right kind of expertise in EHRR and no specific training.
- Many individuals using e-health records for research have started their careers from a variety of different backgrounds where there is a requirement to work on large complex data sets, such as statistics, finance and geography. Consequently there is no common training route. There is a need for more modular-based training that would allow individuals to top up their skills, as a means of up-skilling the diverse workforce.
- There is a lack of cross-discipline training, particularly at the medical/social interface.

SHIP Blueprint



Safe Projects

Safe People

Safe Settings

Safe Data

Safe Outputs



Safe People?

- Scope of Information Governance
 - Using information effectively and ethically
- SHIP Guiding Principles
 - Scientifically sound and ethically robust research is in the interest of protecting the health of the public



e-HIRCS

- Cross Cutting Theme I: Training and Career Development
- Post-doctoral development (13.5 positions)
- Postgraduate training programme (8 core funded, 2 industry + additional)
- “take full advantage of extensive current Masters provision across Scotland relevant to eHealth Informatics research...current modules...flexible participation in these existing courses, and also develop new modules...”



Approved Masters Modules - Dundee

- An introduction to e-health records research (15 SCQF points)
- An introduction to Health Informatics (5 SCQF points)
- Spatial Epidemiology (5 SCQF points)
- Applied statistics for routine health datasets (15 SCQF points)
- Applied statistics for clinical trials (10 SCQF points)
- Statistical software (5 SCQF points)
- Research governance (5 SCQF points)



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Introduction

The School of Social and Community Medicine provides a programme of high quality intensive short courses covering a range of health services research and epidemiological methods, as well as generic research skills. They are aimed at academics, public health specialists, health-care professionals and industry. Courses range in duration from one to five days. These courses are designed and taught by members of the school with some invited speakers from the UK and abroad. The short course programme is highly regarded, with many attendees funded by their employer, and student feedback on these courses is excellent.

Course schedule

Course Title	Date
Analysis of Repeated Measures	18 - 19 October 2011
Introduction to Stata A	24 - 25 October 2011
Introduction to Economic Evaluation	2 - 4 November 2011
Design and Analysis of Randomised Controlled Trials	21 - 25 November 2011
Applied Field Epidemiology for Health Protection	29 November - 1 December 2011
Data Management for Health Research Methods using Microsoft Access	7 - 9 December 2011
Basic Epidemiology	16 - 20 January 2012
Critical appraisal of quantitative research	31 January 2012
Introduction to Statistics	6 - 10 February 2012
Introduction to Stata B	20 - 21 February 2012



Discussion Questions

- What key research skills do you think a SHIP researcher needs?
- What training is available in Scotland in this field?
- Can we develop a collaborative SHIP Programme of Short Courses?

