## EXPLOITING EXISTING DATA FOR HEALTH RESEARCH 2009

### CONFERENCE PROGRAMME

<table>
<thead>
<tr>
<th>Times</th>
<th>Thursday 17th September 2009</th>
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<tbody>
<tr>
<td>11.00-12.50 pm</td>
<td>REGISTRATION and BUFFET LUNCH (Gateway Building)</td>
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| 12.50-1.00 pm    | WELCOME: Paul Boyle  
Director of the Longitudinal Studies Centre – Scotland (LSCS) & Co-Director of the Centre for Population Change (CPC)  
*(Lecture Theatre 4)*  
KEYNOTE: Baroness Onora O'Neill  
Faculty of Philosophy, University Cambridge; Crossbencher House of Lords; Chair, Nuffield Foundation  
"Personal information and confidential communication"  
*(Lecture Theatre 4)* |
| 1.00-2.00 pm     |  
SESSION 1a – Resources (Lecture Theatre 3)  
1. O’Reilly, D  
Northern Ireland’s Electronic Prescribing System (EPES)  
2. Perera, G  
Use of a secondary care database to ascertain treatment response in dementia. The SLAM BRC Case Register  
3. Seagroatt, V. and Goldacre, M.  
The use of linked hospital and death records to study associations between diseases |
| 2.00-3.30 pm     | SESSION 2a – Epidemiology / Health Service Research  
*(Lecture Theatre 4)*  
1. Guthrie, B., Barnett, K. and Davey, P.  
Measuring General Practice prescribing safety in the UK using routine electronic clinical data  
2. Macfarlane, A., Hilder, L., Moser, K. and Dattani, N.  
Using linked data to investigate gestational age differences in stillbirth and infant mortality rates for singleton and twin babies in England and Wales  
3. Atkinson, M.D., Brooks, C.J. and Lyons, R.A.  
SAILing on familiar waters-Revisiting the relationship between birthweight, gestation period and educational performance |
| 3.30-4.00 pm     | TEA/COFFEE (Gateway) |

*Note, the underlined speaker in the first paper in each session will also be the session chair*
<table>
<thead>
<tr>
<th>Times</th>
<th>SESSION 1b – Resources (Lecture Theatre 3)</th>
<th>SESSION 2b – Epidemiology / Health Services Research (Lecture Theatre 4)</th>
<th>SESSION 3b – Methodology (Seminar Room 6)</th>
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<td>7.30–midnight</td>
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<td>CONFERECE DINNER AND CEILIDH</td>
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<td>(Upper and Lower College Halls North Street, St Andrews)</td>
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**Friday 18th September 2009**

**KEYNOTE: D’Arcy Holman**  
Foundation Chair in Public Health, University of Western Australia  
Holder of the Centenary Medal of Australia for voluntary services to the Australian Health System  
and the Sydney Sax Public Health Medal  
“Point for debate: Should health data integration for research develop separately from integration for patient care”

<table>
<thead>
<tr>
<th>Times</th>
<th>SESSION 1c – Resources (Lecture Theatre 3)</th>
<th>SESSION 2c – Epidemiology / Health Services Research (Lecture Theatre 4)</th>
<th>SESSION 3c – Methodology (Seminar Room 6)</th>
<th>SESSION 4c – Epidemiology / Health Services Research (Seminar Room 4/5)</th>
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<tr>
<td>9.00-10.00 am</td>
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| 10.00-11.30 am | 1. Judson, A, on behalf of the SDRN Epidemiology Group  
SDRN - Supporting Epidemiology at a National Level from a Technical Perspective  
2. Yu, N., Donnan, P.T. and Leese, G.P.  
The parathyroid epidemiology and audit research study (PEARS)  
3. Clark, D  
Using longitudinal record linkage to inform clinical practice: risk of uterine rupture in a subsequent pregnancy  
Incidence and case fatality for upper GI bleed in Wales from 1999 to 2007; Record linkage study  
3. Xiao, J., Codde, J., Somerford, P. and Lee, S.  
Use of linked data in clinical outcome evaluation and health service policy development  
Non-Conveyance of 999 callers: a record linkage study identifying subsequent health service contacts | 1. Kernthaler, J. and Bell, A.  
A method of improving the quality and coverage of a prescribing database by using archived image data  
The prescribed duration algorithm: utilising “free text” from multiple primary care electronic systems  
3. Judson, A., Bell, A., McAlpine, R., Pearson, E., Colhoun, H.M., Cunningham, S., Morris, A. and Donnelly, L.  
Diabetic prescribing data, a comparison of issued versus dispensed | 1. Greig, K., Colhoun, H., Lindsay, R. and Wild, S.  
Relative risk of mortality associated with diabetes in Scotland in 2007: A nationwide record linkage study  
Health outcomes by educational level among diabetic and non diabetic population in Turin and Venice: a 4 year follow-up  
Perinatal risk factors for Type 1 Diabetes in childhood - beyond record linkage for individuals |
| 11.30-12.00 pm | TEA/COFFEE (Gateway) |  |  |  |

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<tr>
<th>Times</th>
<th>SESSION 1d – Resources (Lecture Theatre 3)</th>
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<td>1.30-2.30 pm</td>
<td>LUNCH (Gateway)</td>
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<td>Times</td>
<td>SESSEON 1e – Epidemiology / Health Services Research (Lecture Theatre 4)</td>
<td>SESSEON 2e – Methodology (Lecture Theatre 3)</td>
<td>SESSEON 3e – Epidemiology / Health Services Research (Seminar Room 6)</td>
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<th>Time</th>
<th>Session 1 – Epidemiology / Health Services Research (Lecture Theatre 4)</th>
<th>Session 2 – Methodology (Lecture Theatre 3)</th>
<th>Session 3 – Demonstration and panel discussions (Seminar Room 6)</th>
</tr>
</thead>
</table>
| 4.30-6.00 pm | 1. Dibben, C. and Liu, L.  
A linkage method to allow the analysis of incomplete ethnicity records in routine health datasets  
2. Langridge, A.T., Li, J., Nassar, N. and Stanley, F.J.  
Rising social and racial inequalities amongst infants with poor fetal growth in Western Australia, 1984 to 2006  
3. Cromwell, D., Gurol-Urganci, I. and van der Meulen, J.  
The effect of patient age, ethnicity and region of residence on the linkage of longitudinal episodes of care: A Study to identify previous deliveries among women giving birth in English NHS trusts  
Behaviour of English hospitals in the early stage of implementing payment by results: Difference in differences analysis using Scotland as control  
2. Sinnott, R.O., Stell, A., Ajayi, O. and Jiang, J.  
An e-Infrastructure Supporting Secure, Process-oriented Clinical Data Linkage  
3. White, P.  
Linking Clinical Practice Guidelines with Electronic Health Records to Facilitate Automated Reporting of Guideline Compliance  
Record linkage to evaluate performance of hip replacement in England and Wales: completeness of follow-up according to capture-recapture analysis | 1. Demonstration (Mark McGilchrist & others): How MILA generates linked anonymised data extracts from information held by different organisations  
2. Panel (Chair – Peter Knight):  
The Connecting for Health Research Capability Programme |

**Evening**  
**FREE TO ENJOY ST ANDREWS**

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### Saturday 19th September 2009

**KEYNOTE:** John Frank  
Director, Scottish Collaboration for Public Health Research & Policy, MRC Edinburgh  
“Thoughts from Scotland on measuring health inequalities, and the critical role of linkage”

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<tr>
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| **9.00-10.00 am** | 1. O’Leary, C.M., Nassar, N., Kurniczuk, J.J, de Klerk, N., Geelhoed, E. and Bower, C.  
Using record linkage to examine the relationship between prenatal alcohol exposure and birth defects and hospitalizations in the first year of life  
Early retirement due to low back pain – compare of working and retired persons with data from the Research Data Centre of the German Federal Pension Insurance  
Poisson and negative binomial modelling of associations between routinely collected meteorological data and acute stroke hospital admissions                                                                 | 1. Ford, I., Wang, Y. and Berry, C.  
Acquired aortic heart valve disease in Scotland: a record linkage study  
2. Eberth, B., Olajide, D. and Smith, M.D.  
Heart disease and intensity of smoking  
3. Quinn, J., Clark, D.N. and Redpath, A.  
Using Scottish Administrative Databases to Predict Mortality after Coronary Artery Bypass Graft Surgery                                                                 | 1. Schrooten, W., Claes, N., Vandeput, H. and Hellings, J.  
Automated INR trigger detection using linkage between hospital pharmacy, laboratory and administrative (minimal clinical) data  
2. Lewis, G., Georgiou, T., Steventon, A., Billings, J. and Bardsley, M.  
Developing pseudonymous, person-level data sets across health and social care  
3. Huang, Z. and Boyle, P.  
Linking the Scottish Longitudinal Study back through time: a feasibility study                                                                 |
| **10.00-11.30 am** | 1. O’Leary, C.M., Nassar, N., Kurniczuk, J.J, de Klerk, N., Geelhoed, E. and Bower, C.  
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| 12.00-1.30 pm | 1. Sanmartin, C., Khan, S., Garner, R. and the LHAD Research Team  
A population-based approach to the study of ambulatory care sensitive conditions (ACSCs) related hospital admissions: Linking survey and hospitalization data  
2. Wilkins, K., Shields, M. and Rotermann, M  
Smokers' use of acute care hospitals - a prospective study  
Recording of child maltreatment in electronic administrative records of hospital admissions for injury in England: comparisons between Hospital Episode Statistics and a UK trauma registry and administrative records in the USA | 1. de Klerk, N. and Stanley, F.  
Secular changes in outcomes after pre-term birth in Western Australia  
2. Ford, J.B., Roberts, C.L., Algert, C. and Morris, J.M.  
Tracking consecutive pregnancies and the risk of recurrent events: a case study investigating postpartum haemorrhage  
Using longitudinal record linkage to assess trends and health outcomes of routine neonatal and infant circumcision  
Utilising linked health data to verify findings from small sample-size clinical studies: the example of endometriosis and pregnancy hypertension |
| 1.30 pm   | DEPART                                                                                                                                                |                                                                                                           |

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