

# EXPLOITING EXISTING DATA FOR HEALTH RESEARCH 2009 CONFERENCE PROGRAMME

<b>Thursday 17<sup>th</sup> September 2009</b>			
<i>Times</i>			
<b>11.00-12.50 pm</b>	REGISTRATION and BUFFET LUNCH (Gateway Building)		
<b>12.50-1.00 pm</b>	<p style="text-align: center;">WELCOME: <b>Paul Boyle</b>            Director of the Longitudinal Studies Centre – Scotland (LSCS) &amp; Co-Director of the Centre for Population Change (CPC)  <i>(Lecture Theatre 4)</i></p>		
<b>1.00-2.00 pm</b>	<p style="text-align: center;"><b>KEYNOTE: Baroness Onora O’Neill</b>            Faculty of Philosophy, University Cambridge; Crossbencher House of Lords; Chair, Nuffield Foundation  <i>“Personal information and confidential communication”</i>  <i>(Lecture Theatre 4)</i></p>		
<b>2.00-3.30 pm</b>	<p style="text-align: center;"><b>SESSION 1a – Resources (Lecture Theatre 3)</b></p> <ol style="list-style-type: none"> <li>1. <u>O’Reilly, D.</u> <i>Northern Ireland’s Electronic Prescribing System (EPES)</i></li> <li>2. <u>Perera, G.</u> <i>Use of a secondary care database to ascertain treatment response in dementia. The SLAM BRC Case Register</i></li> <li>3. <u>Seagroatt, V.</u> and Goldacre, M. <i>The use of linked hospital and death records to study associations between diseases</i></li> </ol>	<p style="text-align: center;"><b>SESSION 2a – Epidemiology / Health Service Research (Lecture Theatre 4)</b></p> <ol style="list-style-type: none"> <li>1. <u>Guthrie, B.</u>, Barnett, K. and Davey, P. <i>Measuring General Practice prescribing safety in the UK using routine electronic clinical data</i></li> <li>2. <u>Macfarlane, A.</u>, Hilder, L., Moser, K. and Dattani, N. <i>Using linked data to investigate gestational age differences in stillbirth and infant mortality rates for singleton and twin babies in England and Wales</i></li> <li>3. <u>Atkinson, M.D.</u>, Brooks, C.J. and Lyons, R.A. <i>SAILing on familiar waters-Revisiting the relationship between birthweight, gestation period and educational performance</i></li> </ol>	<p style="text-align: center;"><b>SESSION 3a – Methodology (Seminar Room 6)</b></p> <ol style="list-style-type: none"> <li>1. <u>Storey, C.</u> <i>A partnership approach – collaborative linkage work in Scotland</i></li> <li>2. Calderwood, L., Ketende, S. and <u>Mcdonald, J.W.</u> <i>Longitudinal consent patterns and predictors of consent to linkage of survey data in the Millennium Cohort Study to health, education or economic records</i></li> <li>3. <u>Sathanandam, S.</u>, Haddow, G., Bruce, A., McGilchrist, M. and Wyatt, J.C. <i>Public and professional views on the Multi Institution Linkage &amp; Anonymisation (MILA) federated database model for data reuse</i></li> </ol>
<b>3.30-4.00 pm</b>	TEA/COFFEE (Gateway)		

\* Note, the underlined speaker in the first paper in each session will also be the session chair

<i>Times</i>	<b>Thursday 17<sup>th</sup> September 2009</b>		
<b>4.00-5.30 pm</b>	<p style="text-align: center;"><b>SESSION 1b – Resources (Lecture Theatre 3)</b></p> <p>1. <u>Barer, M.</u>, McGrail, K. and Meagher, N. <i>Building a 21st Century Data Resource for Population Health and Health Services Research</i></p> <p>2. <u>Bansal, N.</u> <i>Ethnicity and Health in Scotland: Making the Information Desert Bloom. A Retrospective Cohort Study of 5 Million People Linking Health and Census Databases</i></p> <p>3. Ford, D.V., <u>Jones, K.H.</u>, Verplancke, J-P., Lyons, R.A., John, G., Brown, G., Brooks, C.J., Thompson, S., Bodger, O., Couch, T. and Leake, K. <i>The SAIL Databank: building a national architecture for e-health research and evaluation</i></p>	<p style="text-align: center;"><b>SESSION 2b – Epidemiology / Health Services Research (Lecture Theatre 4)</b></p> <p>1. Norman, J.E., <u>Morris, C.</u> and Chalmers, J. <i>Secular trends in obstetric antecedents of preterm birth and associated neonatal outcomes in Scotland</i></p> <p>2. <u>Barbour, R.</u> and Raab, G. <i>Post-partum psychiatric illness in Scotland 1991-2006</i></p> <p>3. Johansen, H., <u>Sanmartin, C.</u> and the LHAD Research Team <i>Understanding the hospital patient population with mental disorders: Linked hospital and survey data</i></p>	<p style="text-align: center;"><b>SESSION 3b – Methodology (Seminar Room 6)</b></p> <p>1. <u>Knies, G.</u>, Sala, E., Burton, J. and Sacker, A. <i>Consenting to Health Record Linkage on the British Household Panel Survey: Evidence from a Multi-purpose Longitudinal Survey of a General Population</i></p> <p>2. <u>Nicolson, D.J.</u>, Wyatt, J., Pagliari, C. and Cunningham-Burley, S. <i>Examining the challenges and anticipating the output of systematic review of patient, public and professional views on research uses of shared data</i></p> <p>3. <u>Afkhami, R.</u> and Wright, M. <i>Secure data Service; Challenges of a Remote Access to Disclosive Data</i></p>
<b>7.30–midnight</b>	<p><b>CONFERENCE DINNER AND CEILIDH</b> (Upper and Lower College Halls North Street, St Andrews)</p>		

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Times	<b>Friday 18<sup>th</sup> September 2009</b>			
9.00-10.00 am	<p><b>KEYNOTE: D'Arcy Holman</b>            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</p> <p><i>“Point for debate: Should health data integration for research develop separately from integration for patient care”</i></p>			
10.00-11.30 am	<p style="text-align: center;"><b>SESSION 1c – Resources (Lecture Theatre 3)</b></p> <p>1. <u>Judson, A.</u> on behalf of the SDRN Epidemiology Group  <i>SDRN - Supporting Epidemiology at a National Level from a Technical Perspective</i></p> <p>2. <u>Yu, N.</u>, Donnan, P.T. and Leese, G.P.  <i>The parathyroid epidemiology and audit research study (PEARS)</i></p> <p>3. <u>Clark, D.</u>  <i>The Scottish Medical Record Linkage System: Past, Present and Future</i></p>	<p style="text-align: center;"><b>SESSION 2c – Epidemiology / Health Services Research (Lecture Theatre 4)</b></p> <p>1. <u>Roberts, C.L.</u>, Algert, C.S., Ford, J.B., Morris, J.M. and Simpson, J.M.  <i>Using longitudinal record linkage to inform clinical practice: risk of uterine rupture in a subsequent pregnancy</i></p> <p>2. <u>Button, L.A.</u>, Roberts, S.E., Evans, P.A., Goldacre, M.J., Akbari, A., Macey, S. and Williams, J.G.  <i>Incidence and case fatality for upper GI bleed in Wales from 1999 to 2007; Record linkage study</i></p> <p>3. <u>Xiao, J.</u>, Codde, J., Somerford, P. and Lee, S.  <i>Use of linked data in clinical outcome evaluation and health service policy development</i></p> <p>4. Al-Sulaiti, M., <u>Brooks, C.J.</u>, Porter, A.M., Ford, D.V., Lyons, R.A. and Snooks, H.A.  <i>Non-Conveyance of 999 callers: a record linkage study identifying subsequent health service contacts</i></p>	<p style="text-align: center;"><b>SESSION 3c – Methodology (Seminar Room 6)</b></p> <p>1. <u>Kernthaler, J.</u> and Bell, A.  <i>A method of improving the quality and coverage of a prescribing database by using archived image data</i></p> <p>2. <u>Brooks, C.J.</u>, Lyons, R.A., Jones, K.H., Hutton, A.J., Walker, R., Evans, K.A., Lloyd, K. and Ford, D.V.  <i>The prescribed duration algorithm: utilising "free text" from multiple primary care electronic systems</i></p> <p>3. <u>Judson, A.</u>, Bell, A., McAlpine, R., Pearson, E., Colhoun, H.M., Cunningham, S., Morris, A. and Donnelly, L.  <i>Diabetic prescribing data, a comparison of issued versus dispensed</i></p>	<p style="text-align: center;"><b>SESSION 4c – Epidemiology / Health Services Research (Seminar Room 4/5)</b></p> <p>1. Greig, K., Colhoun, H., Lindsay, R. and <u>Wild, S.</u>  <i>Relative risk of mortality associated with diabetes in Scotland in 2007: A nationwide record linkage study</i></p> <p>2. Canova, C., Picariello, R., Tessari, R., Simonato, L., Costa, G., and <u>Gnavi, R.</u>  <i>Health outcomes by educational level among diabetic and non diabetic population in Turin and Venice: a 4 year follow-up</i></p> <p>3. <u>Roberts, C.L.</u>, Algert, C.S., McElduff, A. and Morris, J.M.  <i>Perinatal risk factors for Type 1 Diabetes in childhood - beyond record linkage for individuals</i></p>
11.30-12.00 pm	<b>TEA/COFFEE (Gateway)</b>			

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<i>Times</i>	<b>Friday 18<sup>th</sup> September 2009</b>		
<b>12.00-1.30 pm</b>	<p style="text-align: center;"><b>SESSION 1d – Resources (Lecture Theatre 3)</b></p> <p>1. <u>Dibben, C.</u>, Boyle, P., Gowans, H., Elliot, M., Anttila, C., Kaye, J., McLennan, D., Noble, M. and Wilkinson, K. <i>Providing context – the potential benefits and challenges of linking social and economic with health administrative data in the UK</i></p> <p>2. <u>Glauert, R.</u>, Jianghong, L., Hagemann, E., de Klerk, N. and Stanley, F. <i>Why limit data linkage to health information? Using linked agency data from health, education, child protection, disability services and justice to explore developmental pathways</i></p> <p>3. <u>Jorm, L.</u>, Lujic, S. and Walter, S. <i>Spanning sectors: linking the 45 and Up Study with administrative data from health and community care</i></p> <p>4. <u>Merrall, E.L.C.</u> and Bird, S.M. <i>The mortality and morbidity experiences of drug users in Scotland, 1995-2006</i></p>	<p style="text-align: center;"><b>SESSION 2d – Epidemiology / Health Services Research (Lecture Theatre 4)</b></p> <p>1. <u>Steventon, A.</u>, Georghiou, T., Lewis, G., Billings, J. and Bardsley, M. <i>Health characteristics of people moving into intensive social care</i></p> <p>2. <u>Seagroatt, V.</u> and Goldacre, M. <i>The use of linked hospital and death records to study postoperative mortality</i></p> <p>3. <u>Young, L.</u>, Tilley, C., Chalkley, M., Bonetti, D. and Clarkson, J. <i>Initial estimates of the impact of the new NHS dental contract in England &amp; Wales</i></p> <p>4. Chalkley, M and <u>Tilley, C.</u> <i>Matchless health care?</i></p>	<p style="text-align: center;"><b>SESSION 3d – Methodology (Seminar Room 6)</b></p> <p>1. <u>Feijten, P.</u> <i>Handling missing data in a study on mental health of stepparents using British birth cohort data: the "multiple imputation by chained equations" technique</i></p> <p>2. <u>Olajide, D.</u> and Smith, M.D. <i>Implications of missing data amongst linked hospitalisation records</i></p> <p>3. Gillies, M., <u>Lewsey, J.</u>, Starkie, H., Briggs, A., Shepherd, M. and MacIntyre, K. <i>The risk of incident COPD hospitalisation in a nationally representative sample of the Scottish population: Use of multiple imputation to correct for missing data</i></p> <p>4. <u>Kean, S.</u>, Ford, I. and Norrie, J. <i>Record Linkage enhanced clinical trials in Phase IV, delivered within the setting of a healthcare system</i></p>
<b>1.30-2.30 pm</b>	<b>LUNCH (Gateway)</b>		

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<b>Friday 18<sup>th</sup> September 2009</b>			
<i>Times</i>			
<b>2.30-4.00 pm</b>	<p style="text-align: center;"><b>SESSION 1e – Epidemiology / Health Services Research (Lecture Theatre 4)</b></p> <p>1. <u>Popham, F.</u>, Boyle, P., O'Reilly, D. and Leyland, A. <i>Selective internal migration. Does it explain Glasgow's worsening mortality record?</i></p> <p>2. <u>Clemens, T.</u>, Boyle, P. and Popham, F. <i>Unemployment, mortality and overcoming the problem of health related selection: Evidence from the Scottish Longitudinal Study</i></p> <p>3. <u>Boyle, P.</u>, Feng, Z. and Raab, G. <i>Does widowhood increase mortality risk? Comparing different causes of spousal death to test for selection effects</i></p> <p>4. <u>Kinnear, H.</u>, Brolly, M., Hall, C., O'Reilly, D. and Rosato, M. <i>Linking Northern Ireland health services data to the 2001 Census: an exemplar project to examine variations in the uptake of breast cancer screening</i></p>	<p style="text-align: center;"><b>SESSION 2e – Methodology (Lecture Theatre 3)</b></p> <p>1. <u>Donnan, P.T.</u> <i>A record-linkage study of adverse drug events in a UK Population utilising different epidemiological designs to minimise confounding</i></p> <p>2. <u>John, G.</u> <i>The Predictive Risk Stratification Model (PRISM) project</i></p> <p>3. <u>Kernthaler, J.</u> and Judson, A. <i>A technical perspective on automating a multi institutional linkage scheme</i></p> <p>4. <u>Barry, S.</u> and Ford, I. <i>Record linkage data and clinical trials</i></p>	<p style="text-align: center;"><b>SESSION 3e – Epidemiology / Health Services Research (Seminar Room 6)</b></p> <p>1. <u>Brooks, C.J.</u>, Stephens, J.W., Bain, S.C., Ford, D.V., Lyons, R.A. and Price, D.E. <i>Are blood pressure levels taken during a secondary care diabetic clinic likely to be higher than when measured in primary care?</i></p> <p>2. Johansen, H., Bernier, J., Finès, P., Brien, S., Ghali, W. and Wolfson, M. <i>Variations by health region in treatment and survival after heart attack (Presenter <u>M. Rotermann</u>)</i></p> <p>3. <u>Jordan, K.P.</u>, Jinks, C., Blagojevic, M., Whitehurst, T. and Hughes, R. <i>Utilising routinely recorded primary care data to assess the long term course and management of musculoskeletal pain</i></p> <p>4. <u>Huang, T.</u>, Farrell, S. and Bottomley, J. <i>Performance evaluation for Down syndrome screening using linkage data</i></p>
<b>4.00-4.30 pm</b>	<b>TEA/COFFEE (Gateway)</b>		

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<i>Times</i>	<b>Friday 18<sup>th</sup> September 2009</b>		
<b>4.30-6.00 pm</b>	<p style="text-align: center;"><b>SESSION 1f – Epidemiology / Health Services Research (Lecture Theatre 4)</b></p> <p>1. <u>Dibben, C.</u> and Liu, L. <i>A linkage method to allow the analysis of incomplete ethnicity records in routine health datasets</i></p> <p>2. <u>Langridge, A.T.</u>, Li, J., Nassar, N. and Stanley, F.J. <i>Rising social and racial inequalities amongst infants with poor fetal growth in Western Australia, 1984 to 2006</i></p> <p>3. <u>Cromwell, D.</u>, Gurol-Urganci, I. and van der Meulen, J. <i>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</i></p> <p>4. <u>Canova, C.</u>, Baldo, V., Baldovin, T., Cavaliere, S., Zanon, S. and Simonato, L. <i>Geographical distribution of diseases in the municipality of Venice 2001-2006 ascertained by exploiting electronic health archives</i></p>	<p style="text-align: center;"><b>SESSION 2f – Methodology (Lecture Theatre 3)</b></p> <p>1. Farrar, S., <u>Yi, D.</u>, Ma, A., Sutton, M. and Chalkley, M. <i>Behaviour of English hospitals in the early stage of implementing payment by results: Difference in differences analysis using Scotland as control</i></p> <p>2. <u>Sinnott, R.O.</u>, Stell, A., Ajayi, O. and Jiang, J. <i>An e-Infrastructure Supporting Secure, Process-oriented Clinical Data Linkage</i></p> <p>3. <u>White, P.</u> <i>Linking Clinical Practice Guidelines with Electronic Health Records to Facilitate Automated Reporting of Guideline Compliance</i></p> <p>4. <u>Charman, S.</u>, Copley, L., Newell, C., Howard, P., Porter, M. and van der Meulen, J. <i>Record linkage to evaluate performance of hip replacement in England and Wales: completeness of follow-up according to capture-recapture analysis</i></p>	<p style="text-align: center;"><b>SESSION 3f – Demonstration and panel discussions (Seminar Room 6)</b></p> <p>1. Demonstration (Mark McGilchrist &amp; others): <i>How MILA generates linked anonymised data extracts from information held by different organisations</i></p> <p>2. Panel (Chair – Peter Knight): <i>The Connecting for Health Research Capability Programme</i></p>
<b>Evening</b>	<b>FREE TO ENJOY ST ANDREWS</b>		

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<i>Times</i>	<b>Saturday 19<sup>th</sup> September 2009</b>		
<b>9.00-10.00 am</b>	<b>KEYNOTE: John Frank</b> Director, Scottish Collaboration for Public Health Research & Policy, MRC Edinburgh <i>“Thoughts from Scotland on measuring health inequalities, and the critical role of linkage”</i>		
<b>10.00-11.30 am</b>	<p style="text-align: center;"><b>SESSION 1g – Epidemiology / Health Services Research (Lecture Theatre 3)</b></p> <ol style="list-style-type: none"> <li>1. <u>O’Leary, C.M.</u>, Nassar, N., Kurniczuk, J.J, de Klerk, N., Geelhoed, E. and Bower, C. <i>Using record linkage to examine the relationship between prenatal alcohol exposure and birth defects and hospitalizations in the first year of life</i></li> <li>2. Weske, M., <u>Thiede, M.</u> and Mueller, U.O. <i>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</i></li> <li>3. <u>Weir, C.J.</u>, Walters, M.R., Aslanyan, S., Wright, F. and Lees, K.R. <i>Poisson and negative binomial modelling of associations between routinely collected meteorological data and acute stroke hospital admissions</i></li> </ol>	<p style="text-align: center;"><b>SESSION 2g – Epidemiology / Health Services Research (Lecture Theatre 4)</b></p> <ol style="list-style-type: none"> <li>1. <u>Ford, I.</u>, Wang, Y. and Berry, C. <i>Acquired aortic heart valve disease in Scotland: a record linkage study</i></li> <li>2. Eberth, B., Olajide, D. and <u>Smith, M.D.</u> <i>Heart disease and intensity of smoking</i></li> <li>3. <u>Quinn, J.</u>, Clark, D.N. and Redpath, A. <i>Using Scottish Administrative Databases to Predict Mortality after Coronary Artery Bypass Graft Surgery</i></li> </ol>	<p style="text-align: center;"><b>SESSION 3g – Methodology (Seminar Room 6)</b></p> <ol style="list-style-type: none"> <li>1. <u>Schrooten, W.</u>, Claes, N., Vandeput, H. and Hellings, J. <i>Automated INR trigger detection using linkage between hospital pharmacy, laboratory and administrative (minimal clinical) data</i></li> <li>2. <u>Lewis, G.</u>, Georghiou, T., Steventon, A., Billings, J. and Bardsley, M. <i>Developing pseudonymous, person-level data sets across health and social care</i></li> <li>3. <u>Huang, Z.</u> and Boyle, P. <i>Linking the Scottish Longitudinal Study back through time: a feasibility study</i></li> </ol>
<b>11.30-12.00 am</b>	<b>TEA/COFFEE (Gateway)</b>		

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## Saturday 19<sup>th</sup> September 2009

<i>Times</i>	<b>Saturday 19<sup>th</sup> September 2009</b>	
<b>12.00-1.30 pm</b>	<p style="text-align: center;"><b>SESSION 1h – Epidemiology / Health Services Research (Lecture Theatre 3)</b></p> <ol style="list-style-type: none"> <li>1. <u>Sanmartin, C.</u>, Khan, S., Garner, R. and the LHAD Research Team <i>A population-based approach to the study of ambulatory care sensitive conditions (ACSCs) related hospital admissions: Linking survey and hospitalization data</i></li> <li>2. Wilkins, K., Shields, M. and <u>Rotermann, M.</u> <i>Smokers' use of acute care hospitals - a prospective study</i></li> <li>3. <u>González-Izquierdo, A.</u>, Woodman, J., Copley, L., van der Meulen, J., Brandon, M., Hodes, D., Lecky, F. and Gilbert, R. <i>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</i></li> </ol>	<p style="text-align: center;"><b>SESSION 2h – Epidemiology / Health Services Research (Lecture Theatre 4)</b></p> <ol style="list-style-type: none"> <li>1. <u>de Klerk, N.</u> and Stanley, F. <i>Secular changes in outcomes after pre-term birth in Western Australia</i></li> <li>2. <u>Ford, J.B.</u>, Roberts, C.L., Algert, C. and Morris, J.M. <i>Tracking consecutive pregnancies and the risk of recurrent events: a case study investigating postpartum haemorrhage</i></li> <li>3. <u>Nassar, N.</u>, Hadfield, R., Raynes-Greenow, C., Holland, A., Bower, C. and Roberts, C. <i>Using longitudinal record linkage to assess trends and health outcomes of routine neonatal and infant circumcision</i></li> <li>4. <u>Hadfield, R.M.</u>, Lain, S.J., Raynes-Greenow, C.H., Morris, J.M. and Roberts, C.L. <i>Utilising linked health data to verify findings from small sample-size clinical studies: the example of endometriosis and pregnancy hypertension</i></li> </ol>
<b>1.30 pm</b>	<b>DEPART</b>	

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