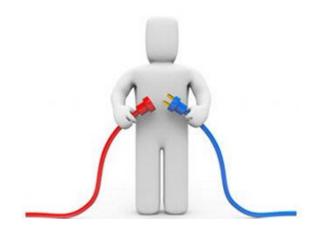
Using data linkage to understand health & homelessness



Emily Tweed

Specialty Registrar in Public Health, NHS GGC Honorary Clinical Fellow, University of Glasgow

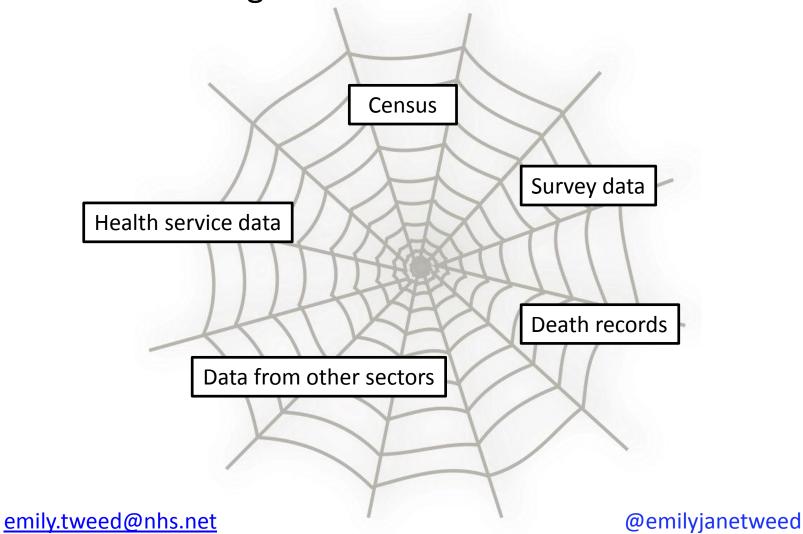
Overview

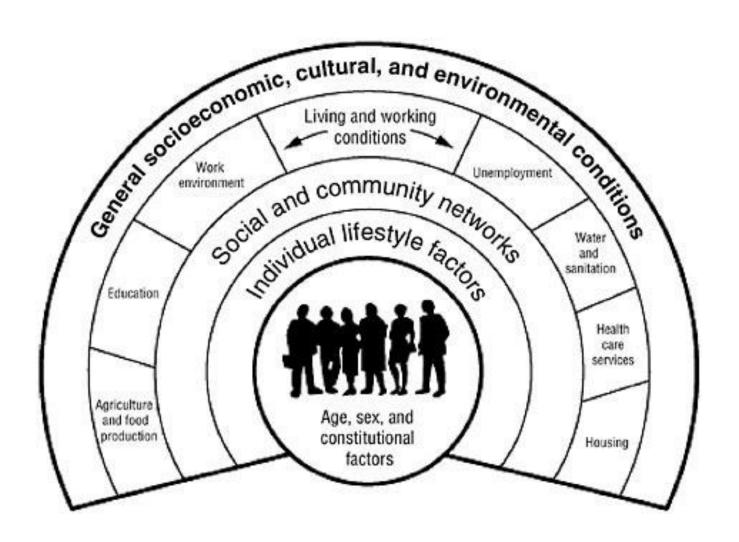
- Background to data linkage
- Examples and application to homelessness
- Current landscape
- Future possibilities
- Keeping in touch

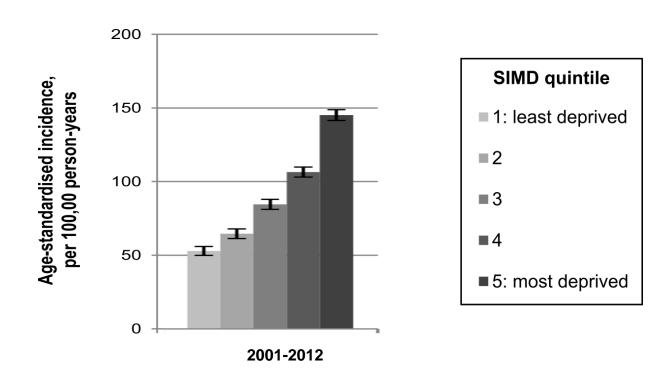
What is data linkage?



What is data linkage?







Lung cancer rates among men living in West of Scotland

OTHER ORIGINAL ARTICLES

Homelessness as an independent risk factor for mortality: results from a retrospective cohort study

2009

David S Morrison

Psychiatric disorders and mortality among people in homeless shelters in Denmark: a nationwide register-based cohort study

W

2011

 $Sandra\ Feodor\ Nielsen,\ Carsten\ Rygaard\ Hjorth{\oot}{\oot},\ Annette\ Erlangsen,\ Merete\ Nordentoft$

OPEN ACCESS Freely available online



Do Children Who Move Home and School Frequently Have Poorer Educational Outcomes in Their Early Years at School? An Anonymised Cohort Study

Hayley A. Hutchings¹*, Annette Evans², Peter Barnes⁴, Joanne Demmler¹, Martin Heaven¹, Melanie A. Hyatt¹, Michelle James-Ellison⁴, Ronan A. Lyons¹, Alison Maddocks³, Shantini Paranjothy², Sarah E. Rodgers¹, Frank Dunstan²

Early Life

Educational outcomes following breech delivery: a record-linkage study of 456 947 children

Daniel F Mackay, 1 Rachael Wood, 2 Albert King, 3 David N Clark, 2 Sally-Ann Cooper, 1 Gordon CS Smith 4 and Jill P Pell 1*

¹Institute of Health and Wellbeing, Glasgow University, Glasgow, UK, ²Information Services Division, NHS National Services Scotland, Edinburgh, UK, ³ScotXed Unit, Scottish Government, Edinburgh, UK and ⁴Obstetrics and Gynaecology Department, Cambridge University, Cambridge, UK



Housing Regeneration and Health Study: Swansea University

Application to homelessness

Concealed and overcrowded households

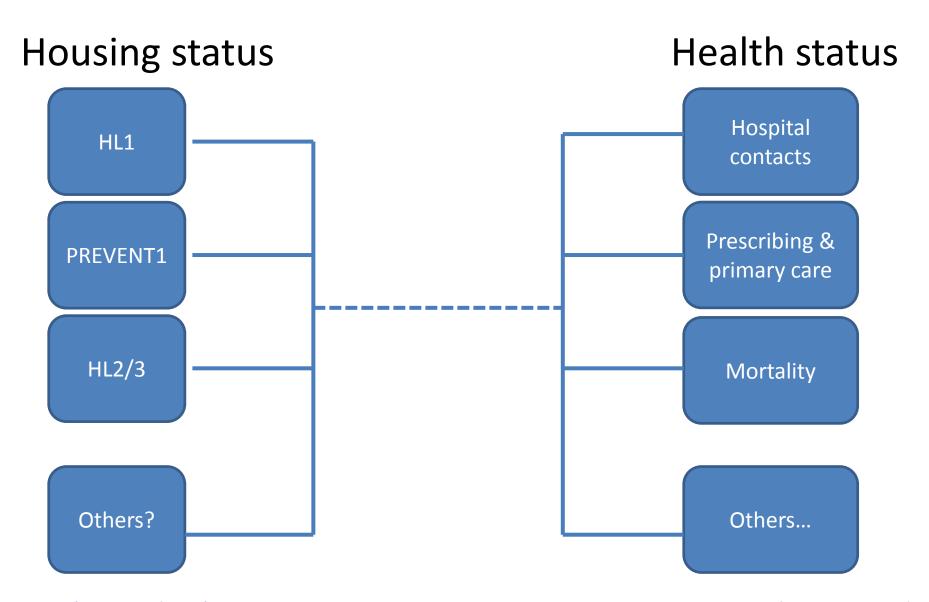
Temporary accommodation

Rough sleeping

Sofa surfing

Emergency accommodation

Data sources



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Current landscape

- Fife project
- Scottish Government project
- Health & Social Care Data Integration ISD
- Local needs assessments
- Hard Edges Scotland
- ?Linkage for research purposes

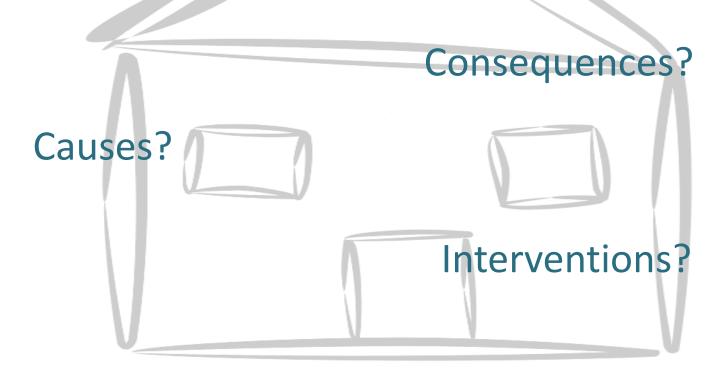
How can we use data linkage to ...?

Improve services and joint working

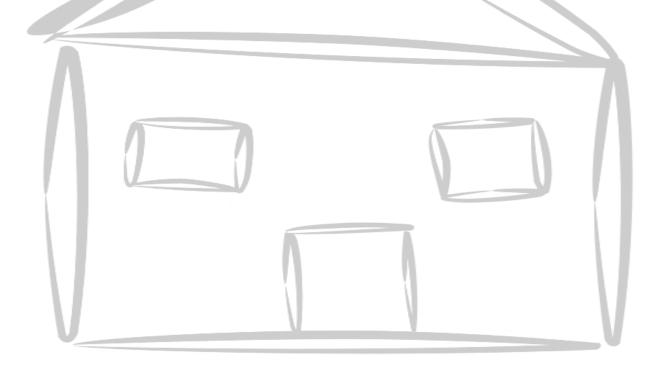
Improve understanding of

- causes
- consequences
- interventions

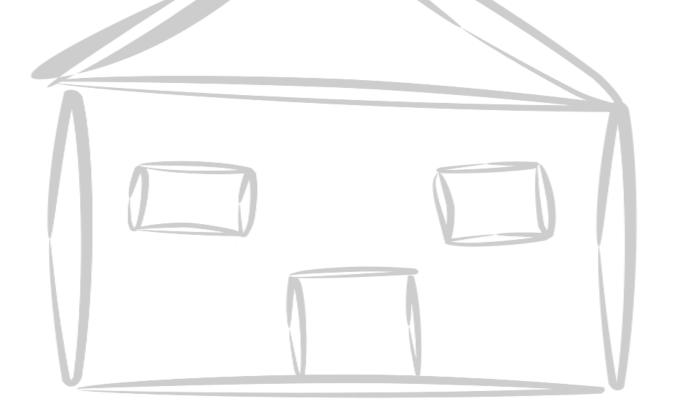
What are the research priorities?



How can we ensure that hidden populations are represented in data linkage projects?



Stakeholder involvement and knowledge exchange



Keeping in touch

- Details below!
 - Questions
 - Feedback
 - Collaborations

ScotPHN Housing & Health project

Neil – national homelessness & health lead

References & further info

Lyons, R.A. et al. Use of data linkage to measure the population health effect of non-health-care interventions. *The Lancet*, 2014. Vol: 383, Issue: 9927, http://bit.ly/1UqXM8x

Rodgers, S.E. et al. Cohort Profile: The Housing Regeneration and Health Study. *International Journal of Epidemiology*, 2014. 43 (1): 52-60 http://bit.ly/1TUCXDu

Morrison, D.S. Homelessness as an independent risk factor for mortality: results from a retrospective cohort study. *International Journal of Epidemiology,* 2009. 38 (3): 877-883 http://bit.ly/1Y0GfXC

Nielsen, S.F. et al. Psychiatric disorders and mortality among people in homeless shelters in Denmark: a nationwide register-based cohort study, The Lancet, 2011. Vol: 377, Issue: 9784, 25 June–1 July 2011, http://bit.ly/1Rlo55B