Health and social care data linkage An overview of resources used during my PhD

David Henderson

7th February 2019





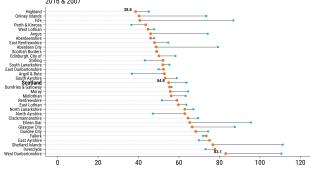
Project funding and supervision

- Scottish Government/ESRC
- Nick Bailey, Colin McCowan, Stewart Mercer
- Based in UBDC at Glasgow University
- Shortly starting post-doc with ADRC-S/Edinburgh Napier



Background

Proportion of over 65s receiving home care 2016 & 2007



Standardised rate per 1000 people over 65

Aims

 Scope what administrative social care data is available for research in Scotland

• Create a linked health and social care dataset

 Assess the effect of multimorbidity and sociodemographic characteristics on social care use

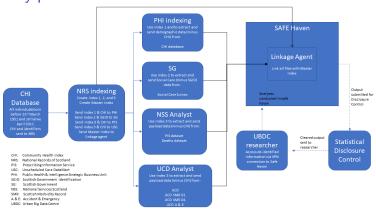
Data

• Social Care Survey

• Renfrewshire council social care data (not linked)

Linkage project

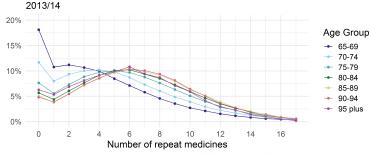
Study period 2011-2016



Percentage of individuals in SIMD deciles by Local Authority (2013/14)

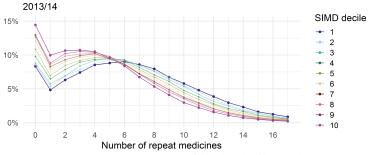


Percentage of individuals with specific count of repeat medicines

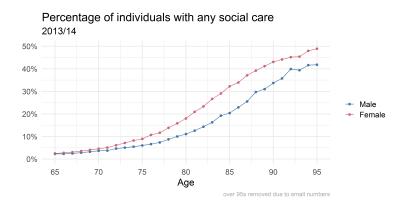


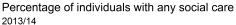
Outlying values > 17 medicines removed

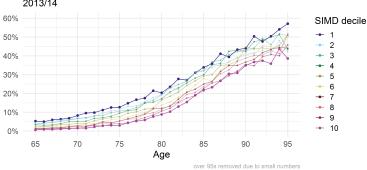
Percentage of individuals with specific count of repeat medicines

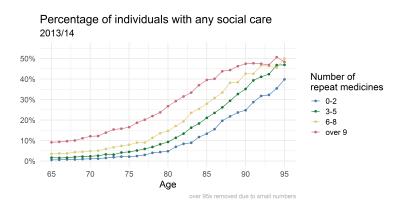


Outlying values > 17 medicines removed









Limitations

- No measure to capture those living alone
- Variation in linkage rate of SCS to population spine at the local authority level
- No longitudinal analysis here
- Proxy multimorbidity measure

Implications

- Age has the biggest effect on receipt of social care -Multimorbidity also important
- Females also more likely to receive care, but a lot of the difference seen in overall numbers is accounted for when adjusting for age and multimorbidity
- After adjusting for age and multimorbidity status, there remains variation in levels of care at the local authority level.
 Further investigation is warranted.