

# Multimorbidity and Access to Social Care

## Exploiting emerging administrative datasets in Scotland

David Henderson

4th October 2018

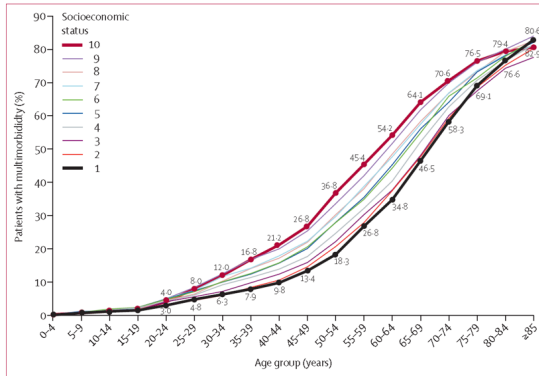


# Project funding and supervision

- Scottish Government
- ESRC
- UBDC
- Nick Bailey, Colin McCowan, Stewart Mercer



# Project outline



**Figure 2: Prevalence of multimorbidity by age and socioeconomic status**  
On socioeconomic status scale, 1=most affluent and 10=most deprived.

Barnett et al (2012)

## The Inverse Care Law: Clinical Primary Care Encounters in Deprived and Affluent Areas of Scotland

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### ABSTRACT

**PURPOSE** The inverse care law states that the availability of good medical care tends to vary inversely with the need for it in the population served, but there is little research on how the inverse care law actually operates.

**METHODS** A questionnaire study was carried out on 3,044 National Health Service (NHS) patients attending 26 general practitioners (GPs); 16 in poor areas (most deprived) and 10 in affluent areas (least deprived) in the west of Scotland. Data were collected on demographic and socioeconomic factors, health variables, and a range of factors relating to quality of care.

**RESULTS** Compared with patients in least deprived areas, patients in the most deprived areas had a greater number of psychological problems, more long-term illness, more multimorbidity, and more chronic health problems. Access to care generally took longer, and satisfaction with access was significantly lower in the most deprived areas. Patients in the most deprived areas had more problems to discuss (especially psychosocial), yet clinical encounter length was generally shorter. GP stress was higher and patient enablement was lower in encounters dealing with psychosocial problems in the most deprived areas. Variation in patient enablement between GPs was related to both GP empathy and severity of deprivation.

**CONCLUSIONS** The increased burden of ill health and multimorbidity in poor communities results in high demands on clinical encounters in primary care. Poorer access, less time, higher GP stress, and lower patient enablement are some of the ways that the inverse care law continues to operate within the NHS and confounds attempts to narrow health inequalities.

*Ann Fam Med* 2007;5:503-510. DOI: 10.1370/afm.778.

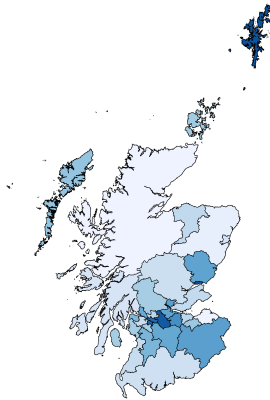
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### INTRODUCTION

Scotland has the lowest life expectancy for women in Western Europe and the second lowest for men, with a widening gap between the health of the rich and the poor.<sup>1</sup> Twenty-one percent of the population in poorer areas have limiting long-term illnesses or disabilities, compared with only 8.5% in affluent areas.<sup>1</sup>

# Project outline

Rate of social care for over 65s 2011/12  
by Local Authority



Rate per thousand people  
over 65 receiving any form  
of social care



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Contains OS data © Crown copyright and database right 2018

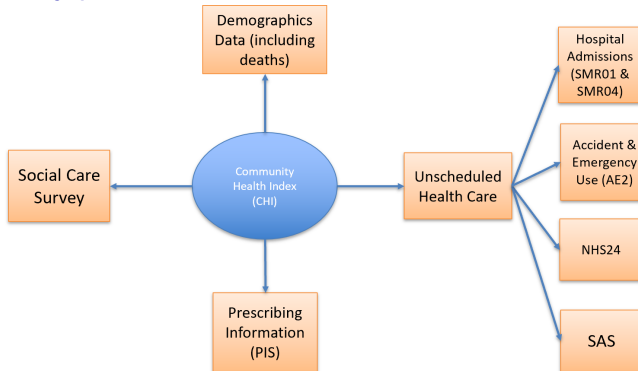
## Project outline

In people over the age of 65 in Scotland:

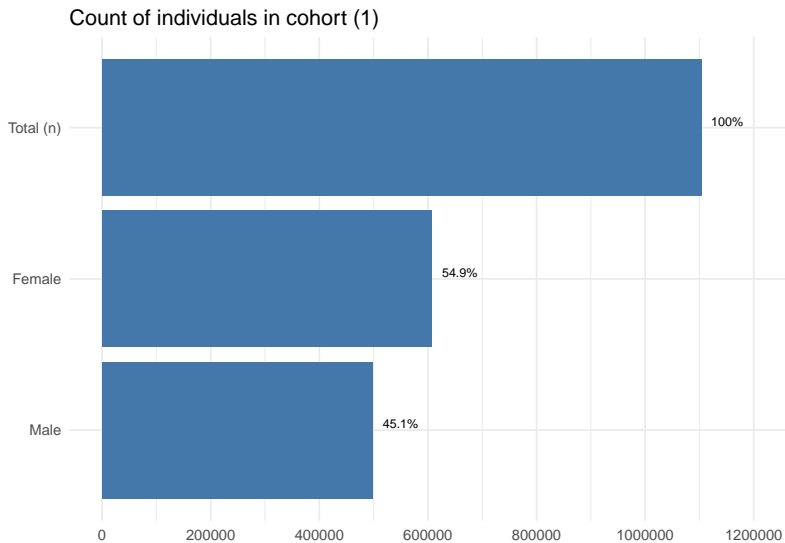
- 1    (a) What are the socioeconomic, demographic, and geographic patterns in the use of social care?  
      (b) Is there an association between multimorbidity status and the amount and type of social care use over time? Does this vary by the patterns described in 1(a)?
- 2    Is there an association in the use of social care services, multimorbidity status and unscheduled health care use?

# Project outline

Study period 2011-2016



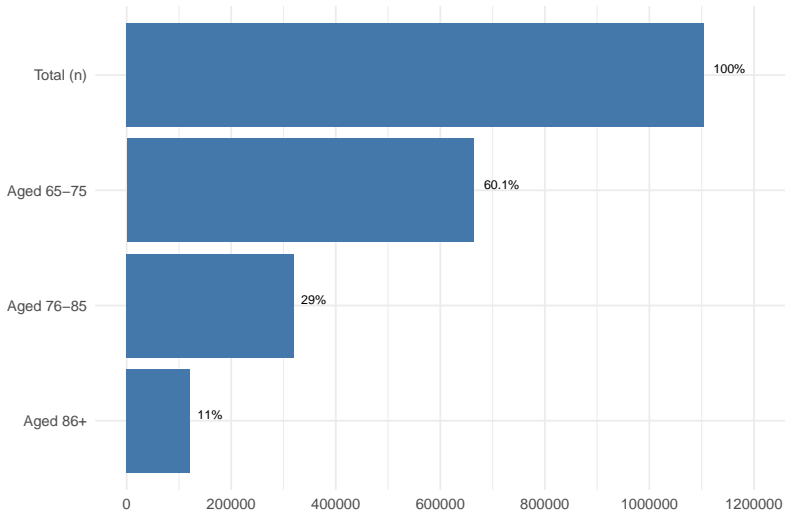
## Results





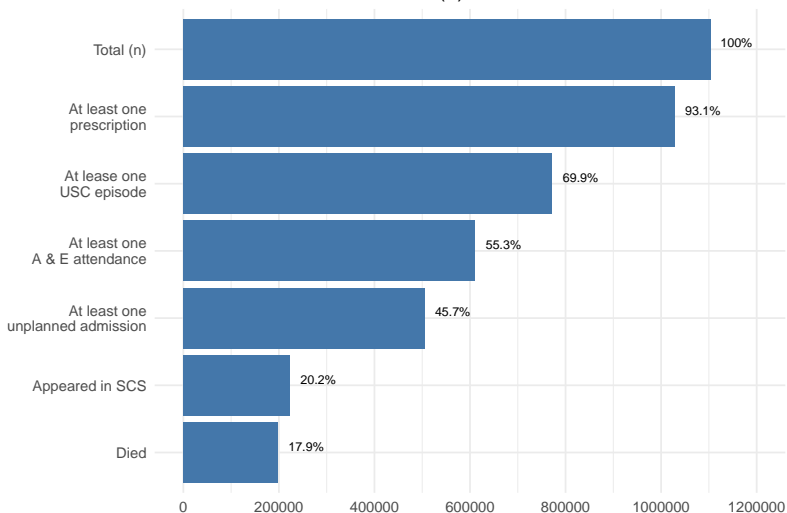
## Results

Count of individuals in cohort (2)



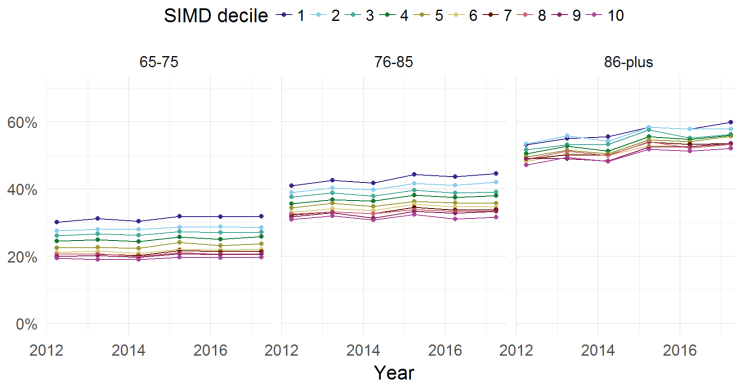
# Results

Count of individuals in cohort (3)



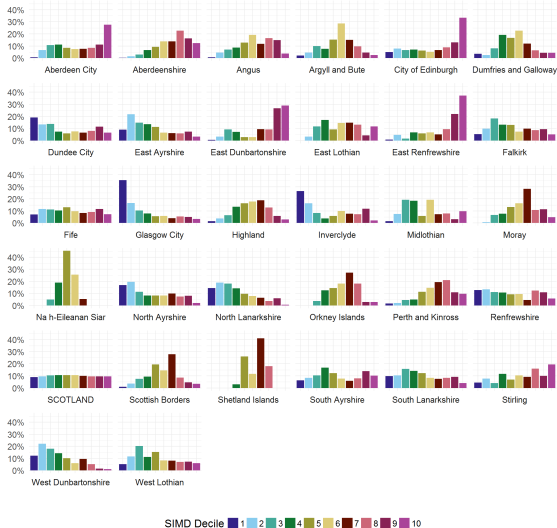
# Results

## Percentage of individuals with at least one USC episode



## Results

### Percentage of individuals in SIMD deciles by Local Authority



# Results

## Rate per thousand of over 65s with any form of social care

by SIMD decile



## Summary

- Linkage of health and social care datasets is possible in Scotland
- Lots still to be done in terms of quality
- Preliminary results suggest there is *not* an inverse social care law
- Impact of Multimorbidity on social care and both of these on unscheduled care use still to be analysed
- Watch this space....

## Acknowledgements

- Scottish Government and NHS National Services Scotland
- UBDC and eDRIS for secure data management
- Amy Tilbrook

# Thank you

- [www.davidhen.com](http://www.davidhen.com)
- [www.github.com/davidhen](https://www.github.com/davidhen) 
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