Sarah Curtis,

Professor of Health and Risk;

Director,
Institute of Hazard, Risk and Resilience
Durham University



IHRR

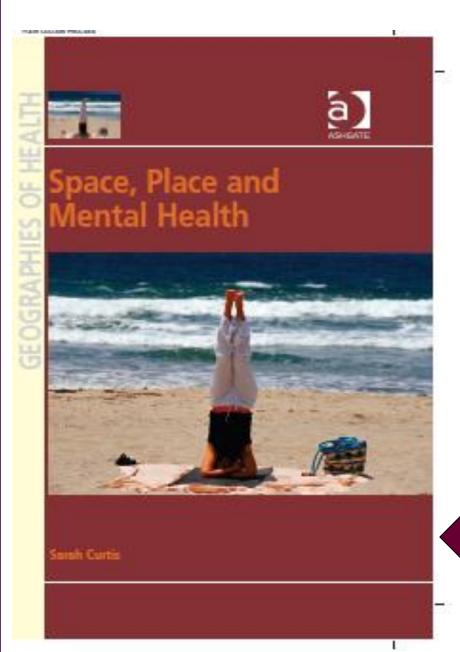
Institute of Hazard, Risk and Resilience

Royal Geographical Society Environment & Society Forum

What keeps the UK healthy? Geographical perspectives on health and employment



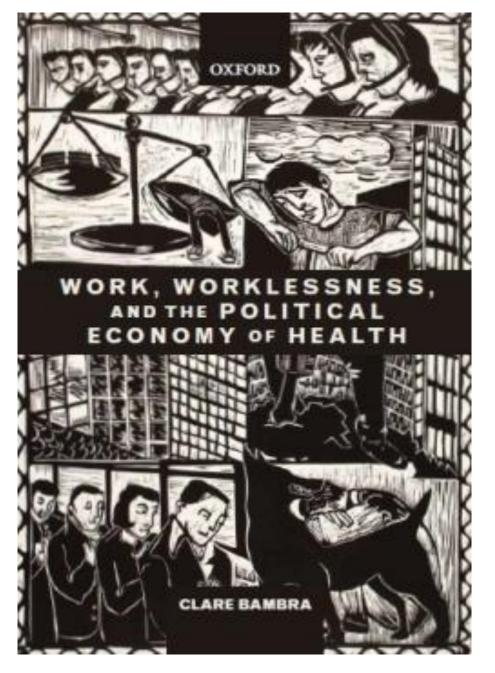




Space, Place and Health:

- Place matters for (physical and mental) health
- Places and people interact over time in ways that are important for health

(e.g. book by I Sarah Curtis on Space, Place and Mental Health)



...Also...

Employment (work & worklessness) matters for health:

Eg. Clare Bambra, Work, Worklessness and the Political Economy of Health



Why employment in local communities are important for health of <u>all</u> members of the community...



- -income levels and community resources
- social support through work places
- sense of purpose and 'structure' to life

Durham Miner's Gala

- reputation and collective sense of identity

Long term conditions in local labour markets may be especially important for health in communities....

..can influence health over the life-course.



... Two examples from health geography...

health and long term conditions in local labour markets

Mylene Riva and Sarah Curtis







Example 1

Trends in local employment rates (relative to national average)
1981-2001



predict death/illness for people in the local population 2001-2007

The information used....

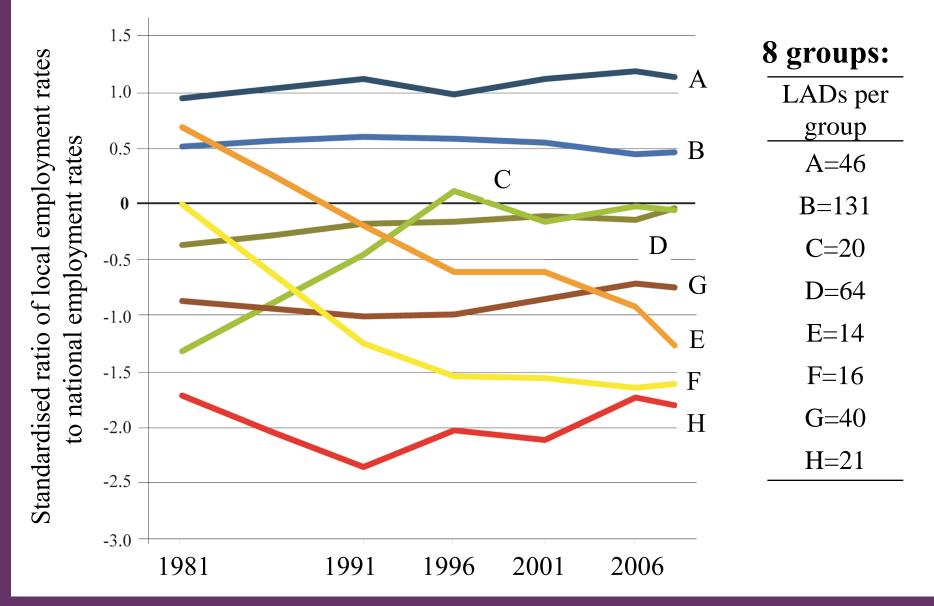
- Office of National Statistics Longitudinal Study
 - 207,959 people aged ≥ 16 years and older in 1981
 - Recorded in the 1981, 1991 and 2001 popn Censuses
- Measure of health: did the person:
 - Die from any cause 2001-2007? (Mortality)
 - Report a limiting long term illness (LLTI) in 2001 (Morbidity)
- Characteristics of each person, measured in 1981, that might relate to their health (strictly anonymized data analysed in a secure data laboratory)
 - Sex, age, ethnic group, household composition, economic activity, having access to a car, housing tenure, residential mobility

Linking data on people to information on employment trends in their community

- Trends in employment rates 1981-2008 relative to national average for Local Authority Districts (LADs; n=352)*;
- Analysis to identify groups of areas with similar employment trends
- Linked to information on individual people.

(*Data from the Decennial Census and the Labour Force Survey.)

local authority districts grouped by trends in employment rates (compared with national average)



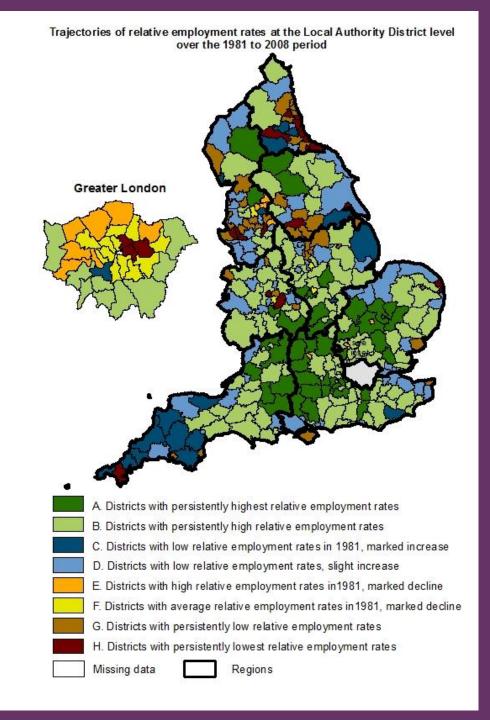
Local Authorities grouped According to trends in employment rate relative to the National average

Always relatively High (A)

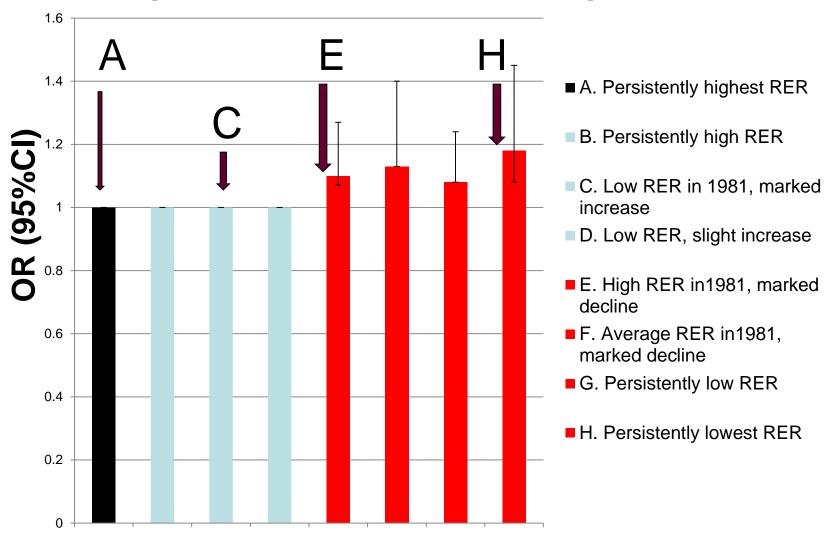
Improvement from low initial level in 1981 (C)

Deterioration from initial level in 1981 (E)

Always relatively low (H)



Risk of death higher for people living in area groups E,F,G,H, than in area group A



(allowing for individuals' socio-demographic characteristics in 1981 and residential mobility 1981-2001)

Reporting long term illness: those always living in areas classed 'E' or 'H' are more likely to report an illness than residents of group 'A'



Always living in group A areas (employment rate always high

Always living in group E areas (marked decline in employment)

Always living in group H areas (employment always low)

Policy implications

- Especially poor health was found for people in our sample living in areas where employment was persistently low over time.
- These are areas with especially 'deep seated' economic and health disadvantage. To 'reverse' these conditions is likely to require intensive and sustained policies and interventions.
- Health disadvantage was less pronounced for people in areas with low employment levels in 1981 but showing marked improvement over time

Example 2: Is there a 'legacy of ill-health' in 'ex-coalfield' areas?

The mining industry has suffered major decline in the last 20 years.

Do residents in 'ex-coalfied' areas report worse health, allowing for their other characteristics?.

The information used

- Data for 26, 097 people answering the national Health Surveys for England, 2004 2006
- Measures of health (based on survey answers): did the person:
 - Report a limiting long term illness?
 - Have a common mental disorder?
- Characteristics of each person, that might relate to their health (strictly anonymized data)
 - Sex, age, ethnic group, marital status, social class, smoking and drinking behaviour

Does the person live in an area which in 1981 was heavily dependent on coal mining?

(mining employed more than 10% of male workforce in 1981)

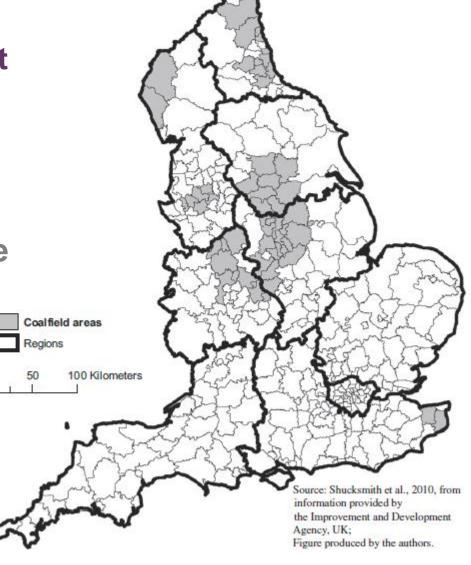
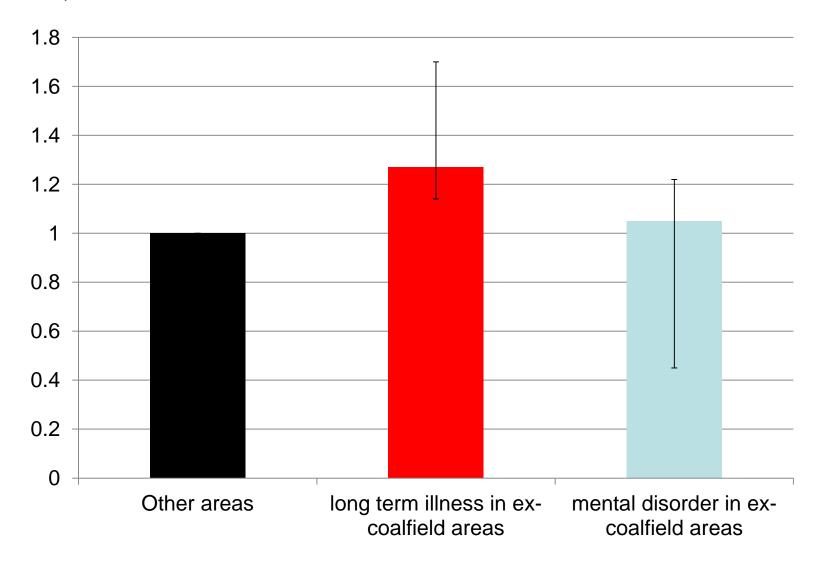


Fig. 1. Local Authority Districts in England characterised as former coalfield areas (n=55).

Allowing for individual's personal characteristics, the risk of long term illness was greater for those in coalfield areas, but the risk of mental disorders was no different



Also....

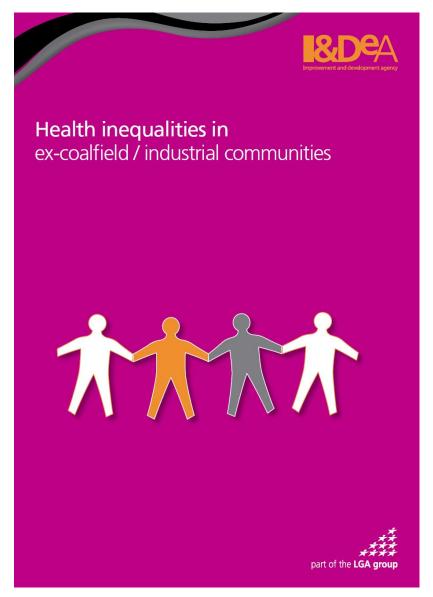
the risks of long term illness in ex-coalfield areas <u>varied</u>:-

greatest in the most <u>rural</u> 'ex-coalfield' areas.

Policy implications:

This study of excoalfields was reported to the Improvement and Development Agency

The study shows that not all aspects of health are poor in coalfield areas and suggests that action in local areas can help to improve health



Shucksmith, J., Carlebach, S., Riva, M., Curtis, S., Hunter, D.J., Blackman, T., and Hudson, R. (2010) Health inequalities in ex-coalfield / industrial communities. A report to the Improvement and Development Agency for Local Government and the Department of Health IDeA/DH, London http://www.idea.gov.uk/idk/aio/18036469

Key messages:

Employment conditions at the level of whole communities are important for health

Where economic regeneration boosts healthy employment, this may benefit health for the whole community.

Area regeneration programmes are important especially in areas where employment rates are low.

This research is published as:

Riva, M. And Curtis, S. (2012) Long term local area employment rates as predictors of individual mortality and morbidity: a prospective study in England spanning more than two decades.

Journal of Epidemiology and Community Health, 66:10 919-926

Riva, M., Terashima, M., Curtis, S., Shucksmith, J., and Carlebach, S. (2011) Coalfield health effects: variation across former coalmining communities in England. *Health & Place* 17, 2, 588-597



Acknowledgements

- The research was carried out at Durham University with support from Durham University Wolfson Research Institute and Institute of Hazard Risk and Resilience.
- The permission of the Office for National Statistics to use the Longitudinal Study is gratefully acknowledged, as is the help provided by staff of the Centre for Longitudinal Study Information & User Support (CeLSIUS), especially Chris Marshall. CeLSIUS is supported by the ESRC Census of Population Programme (Award Ref: RES-348-25-0004).
- Census output is Crown copyright and is reproduced with the permission of the Controller of HMSO and the Queen's Printer for Scotland.
- The authors alone are responsible for the interpretation of the data.

Thank you!

Risk of illness greater than in area group A, for all other groups, especially G and H.

