

R package SocEpi

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Motivation

Public health research, health inequalities

- ▶ Crating small-area deprivation measures
- ▶ Measuring socio-economic inequalities in health

Brown, D., Allik, M. , Dundas, R. and Leyland, A. H. (2014)
Carstairs Scores for Scottish Postcode Sectors, Datazones and Output Areas from the 2011 Census. Technical Report. MRC/CSO
Social and Public Health Sciences Unit, University of Glasgow,
Glasgow.

Other packages

Roughly 150 packages related to “public health”, “health inequalities”, “social epidemiology”, “epidemiology”, “demography”, “mortality rate”, “mortality”.

Only four more closely related to this work: *popEpi*, *epiR*, *Epi*, *epitools*

- ▶ Overlap: calculation of standardized rates, rate ratios and SE/CI for these
- ▶ Differences: scope/flexibility of these functions, methods for SE/CI
- ▶ Gap: not many tools specific to health inequalities research

Future plans

- ▶ Testing
 - ▶ Researchers' needs
 - ▶ Bugs, idiosyncrasies
- ▶ Enhance functions
 - ▶ contribution of specific causes to inequality
 - ▶ different methods for CI
- ▶ New functions
 - ▶ Other measures of inequalities
- ▶ Review of public health packages/functions in R