

Testing for sensitive periods of neighbourhood effects on wellbeing across the life course

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LEVERHULME TRUST_____ ONS Quality of life and personal wellbeing:
Research and data showcase
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Research questions

- How important are neighbourhood effects across the life course on health and wellbeing?
- Are these effects more important at certain points during the life course?

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Data

- 1958 National Child Development Study and British Cohort Study 1970 birth cohort studies
- Linked to Townsend deprivation scores measured at censuses, 1971-2011 at 2011 lower super output boundaries

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Outcome variables at age 42/55

- Self-rated health: in general, would you say your health is...
 - excellent, very good, good, fair or poor
- Mental wellbeing: Warwick-Edinburgh Mental Well-being (BCS70) and Control, Autonomy, Selfrealisation and Pleasure (NCDS)

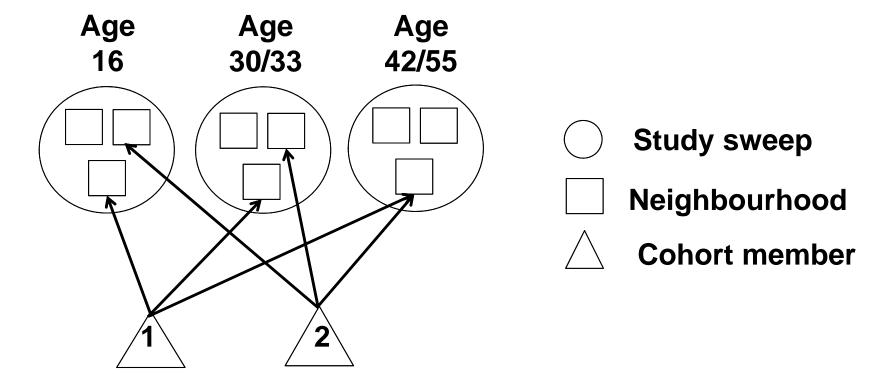
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Exposure: Townsend deprivation index

- Inputs
 - Unemployment
 - Non-home ownership
 - No car access
 - Overcrowding



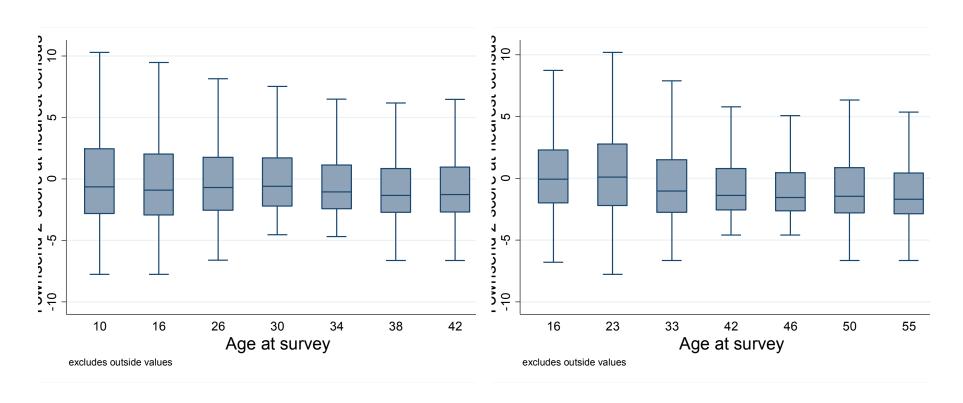
Statistical analysis



Cross-classified multilevel model

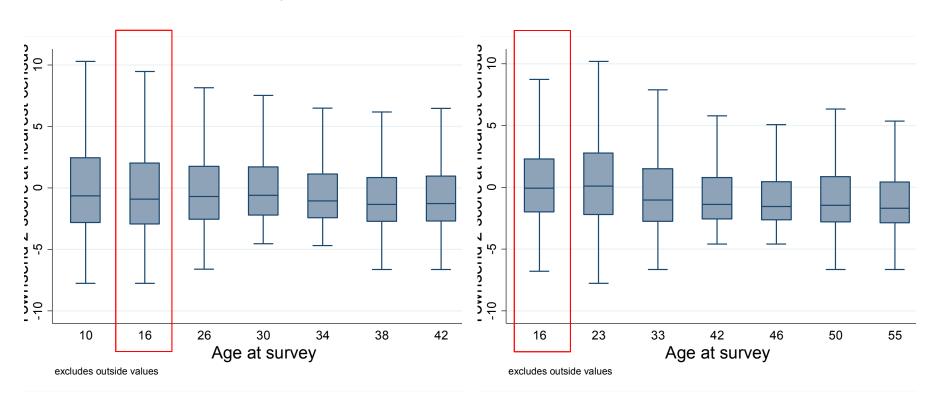


British Cohort Study 1970



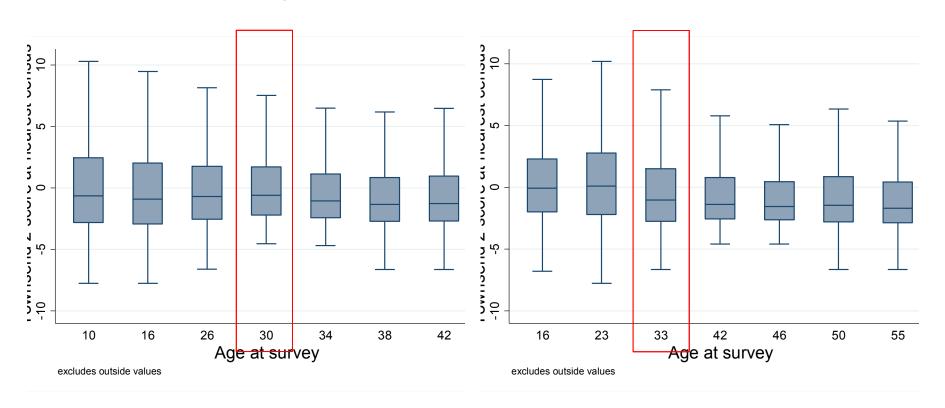


British Cohort Study 1970



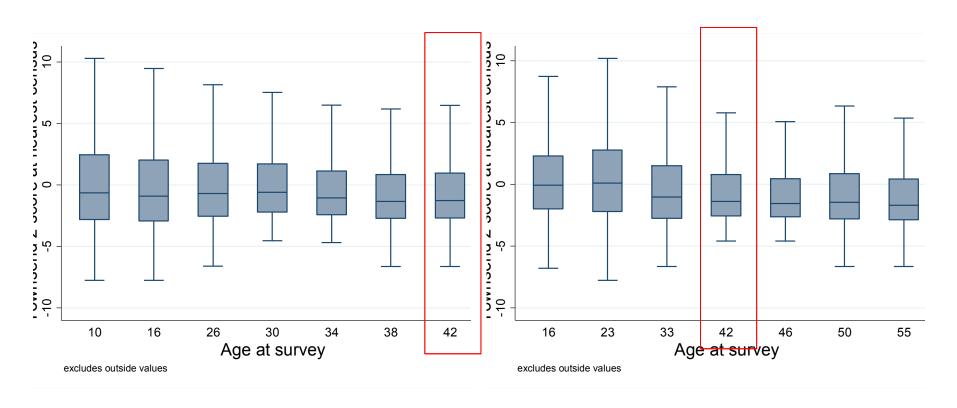


British Cohort Study 1970



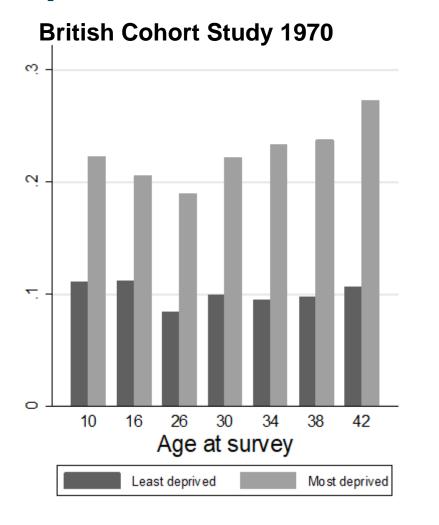


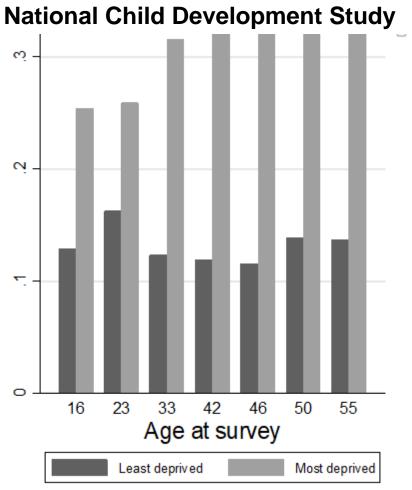
British Cohort Study 1970





Poor-rated health (%) by neighbourhood deprivation decile

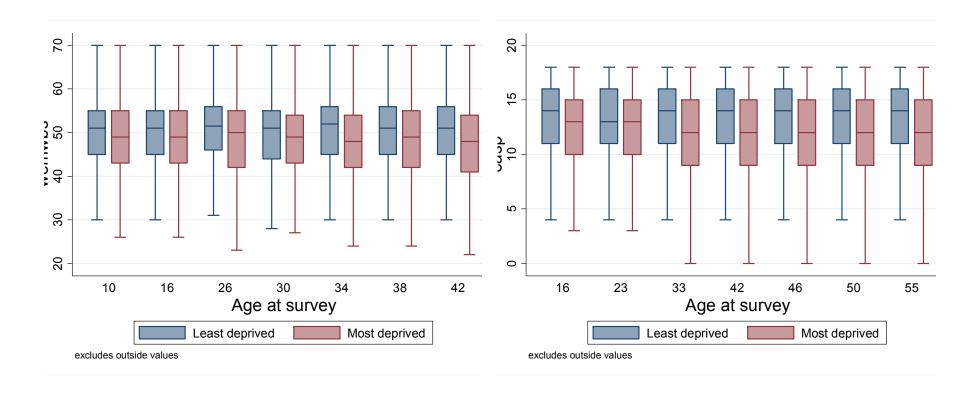






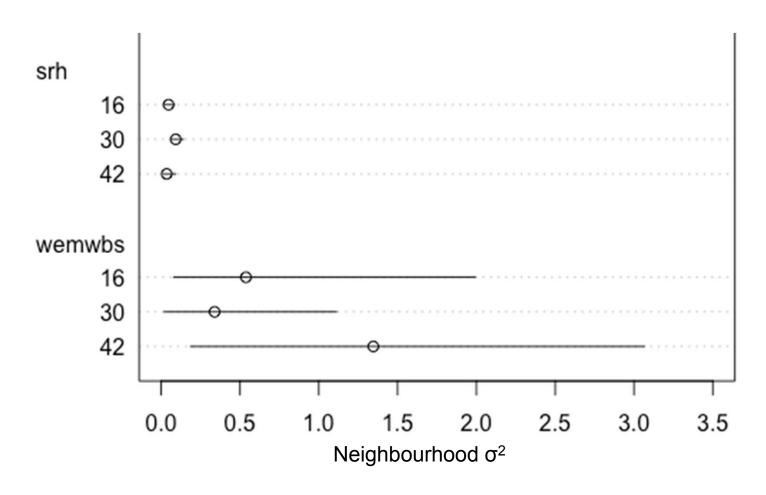
Mean mental wellbeing by neighbourhood deprivation decile

British Cohort Study 1970



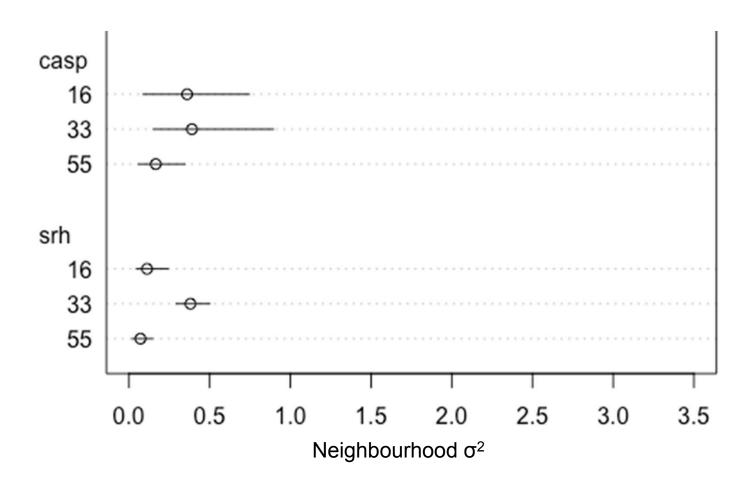


Neighbourhood variance cross-classified variance components models – BCS70





Neighbourhood variance cross-classified variance components models – NCDS



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Summary

- General neighbourhood effect is small across the life course (3-9% total variance)
- General neighbourhood variation is constant across the life course

Neighbourhood deprivation-later life wellbeing association stronger in later life