

Longitudinal research resources

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Today

- About CLOSER
- CLOSER Discovery
- Learning Hub
- Harmonisation and data linkage resources



Harmonisation

Facilitating comparisons within and across studies

Why harmonisation matters

- Full potential of the UK studies realised when we compare within and across studies
- Different studies have used different methods to collect information on participants' lives
- Data harmonisation involves recoding or modifying variables so that they are comparable

Harmonisation topics

Height, weight and BMI

Socio-economic status

Use/collection of biological samples

Measures of vision

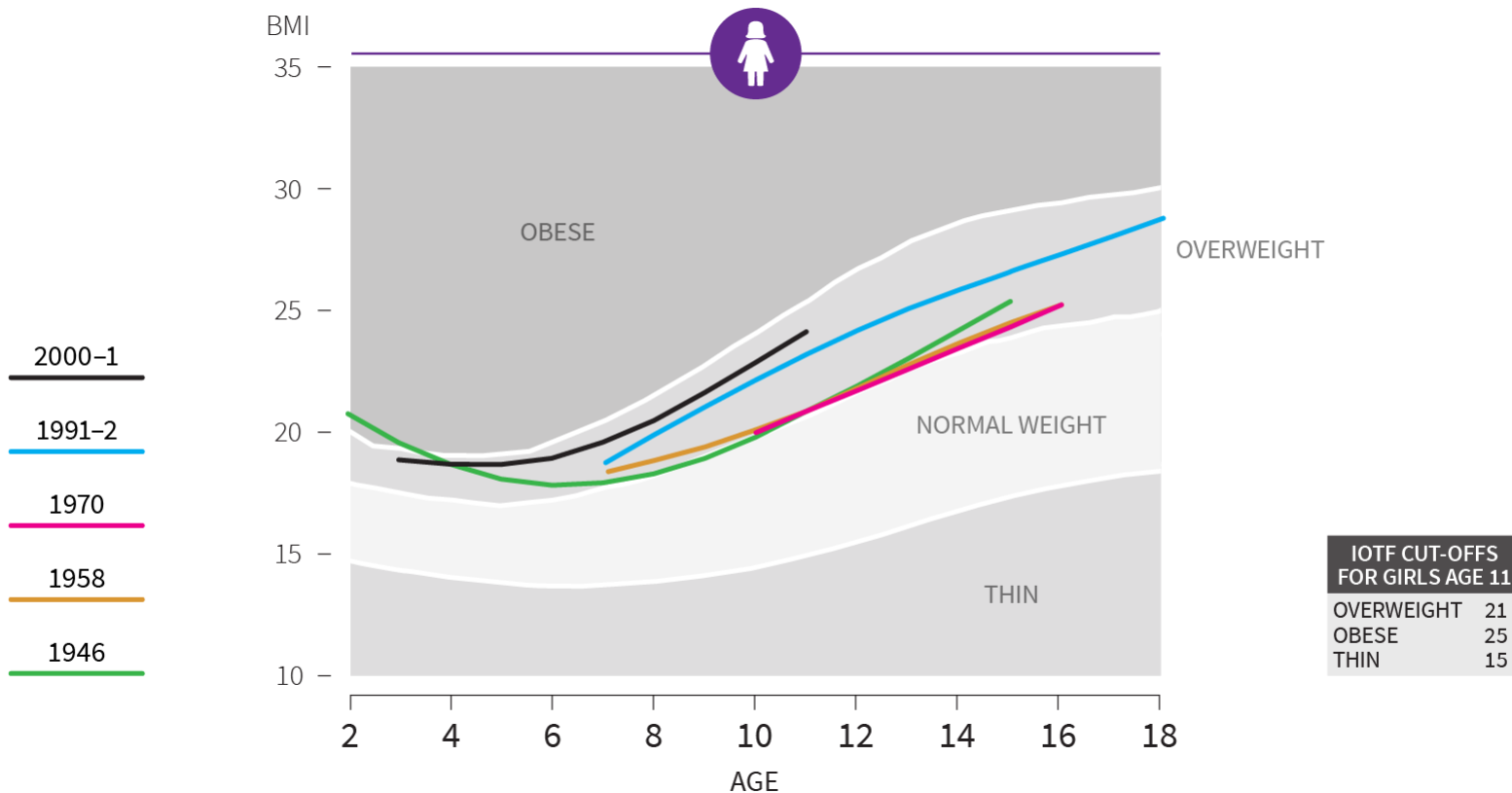
Childhood environment and adult wellbeing

Review of methods for determining pubertal status

Exploiting CLOSER biomarker data

Overcrowding and health

Tracking the rise of obesity in the UK (91st percentile)



Reference

Johnson, W., Li, L., Kuh, D., & Hardy, R. (2015). How Has the Age-Related Process of Overweight or Obesity Development Changed over Time? Co-ordinated Analyses of Individual Participant Data from Five United Kingdom Birth Cohorts. *PLOS Medicine*, e1001828. Contact: Rebecca Hardy rebecca.hardy@ucl.ac.uk

Harmonisation resources

- Harmonised datasets available via UK Data Service, with documentation
- Future outputs drawing out learning from across CLOSER's harmonisation work
- Further harmonisation projects 2017-2019 – inc. diet, mental health, cognitive measures
- Training events



Data linkage

Enhancing study data with administrative records

Data linkage

Economic and education data

Geographic data

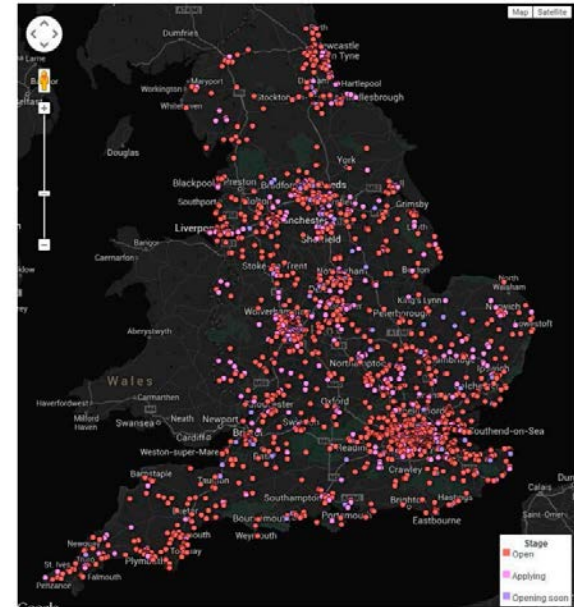
Hospital Episode Statistics

Data linkage in cohorts and longitudinal studies

Longitudinal analysis of schools

urn	urn 2005	urn 2006	urn 2007	urn 2008	urn 2009	urn 2010	urn 2011	urn 2012
130388	126175	126175	130388	130388	130388	130388	130388	130388
126175	126175	126175	130388	130388	130388	130388	130388	130388
126341	126341	126341	130388	130388	130388	130388	130388	130388
130391	.	130391	130391	130391	130391	130391	130391	130391
130826	.	130826	130826	130826	130826	130826	130826	130826
130854	.	130854	130854	130854	130854	130854	130854	130854
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100669	100669	130856	130856	130856	130856	130856	130856	130856
130857	.	130857	130857	130857	130857	130857	130857	130857
125489	125489	125489	125489	125489	125489	130869	130869	130869
130880	.	130880	130880	130880	130880	130880	130880	130880
102877	102877	130899	130899	130899	130899	130899	130899	130899
102880	102880	130899	130899	130899	130899	130899	130899	130899
130899	102877	130899	130899	130899	130899	130899	130899	130899
114883	114883	130901	130901	130901	130901	130901	130901	130901
130901	114880	130901	130901	130901	130901	130901	130901	130901
114880	114880	130901	130901	130901	130901	130901	130901	130901
130902	.	130902	130902	130902	130902	130902	130902	130902
130904	.	130904	130904	130904	130904	130904	130904	130904
130907	.	130907	130907	130907	130907	130907	130907	130907
130908	111772	130908	130908	130908	130908	130908	130908	130908
111772	111772	130908	130908	130908	130908	130908	130908	130908
107462	107462	130909	130909	130909	130909	130909	130909	130909
130909	107462	130909	130909	130909	130909	130909	130909	130909
101150	101150	101150	130912	130912	130912	130912	130912	130912
130912	101150	101150	130912	130912	130912	130912	130912	130912
130913	.	130913	130913	130913	130913	130913	130913	130913

Note: multiple rows per school, as linked forward and backward and include school mergers. (Churchfields, the village school formed from Atworth Primary School and Monkton Farleigh & South Wraxall.)



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Data linkage resources

- Outputs as part of ongoing data linkage coordination and advocacy
- Schools database
- Dataset linking P14 employment data (HMRC) to birth cohort data
- Training events (eg workshop on linking study data to geographic variables)

Thank you

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