

Cross-study research

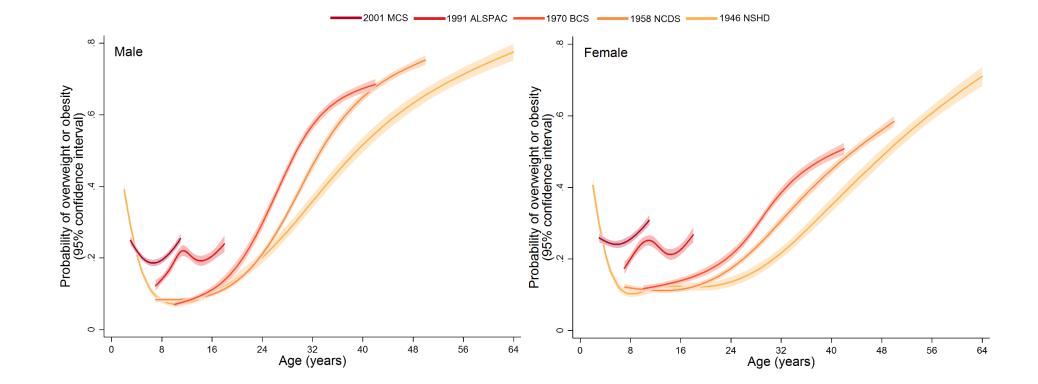
Opportunities, challenges and examples







Trajectories of the probability of overweight or obesity (versus normal weight) by cohort



Johnson et al. Plos Med 2015

Outline of the day

- Session 1: CLOSER data harmonisation
- Practical exercise
- Lunch
- Session 2: Cross-study research: examples
- Coffee break
- Session 3: CLOSER resources
- Key themes and where to next





Key themes



- Harmonisation depends on the scientific question (and studies included)
- Harmonisation of concepts versus harmonisation of variables
- Balancing act comparison versus detail
- Data analysis approach is dependent on the level of harmonisation achieved
- Calibration using external data sources can be helpful
- The use of sensitivity analyses is important
- Harmonisation challenges exist across multiple waves within one study as well as across studies
- Documentation and meta-data for harmonised variables (and within studies) are vital



Common technical challenges

- Whether/how to impute missing values
- Prospective versus recall
- Differences in measurement protocols
- Harmonising samples across studies
- Cultural norms/translation

Future?



- Deposited harmonised datasets
- Role of data platforms/repositories (e.g. CLOSER Discovery)
- Co-ordination of calibration studies
- Prospective harmonisation