

# Work package 1: Biological structure and function

Rebecca Hardy, Will Johnson, Diana Kuh  
MRC Unit for Lifelong Health and Ageing

CLOSER Data Harmony KEW, January 16th 2013

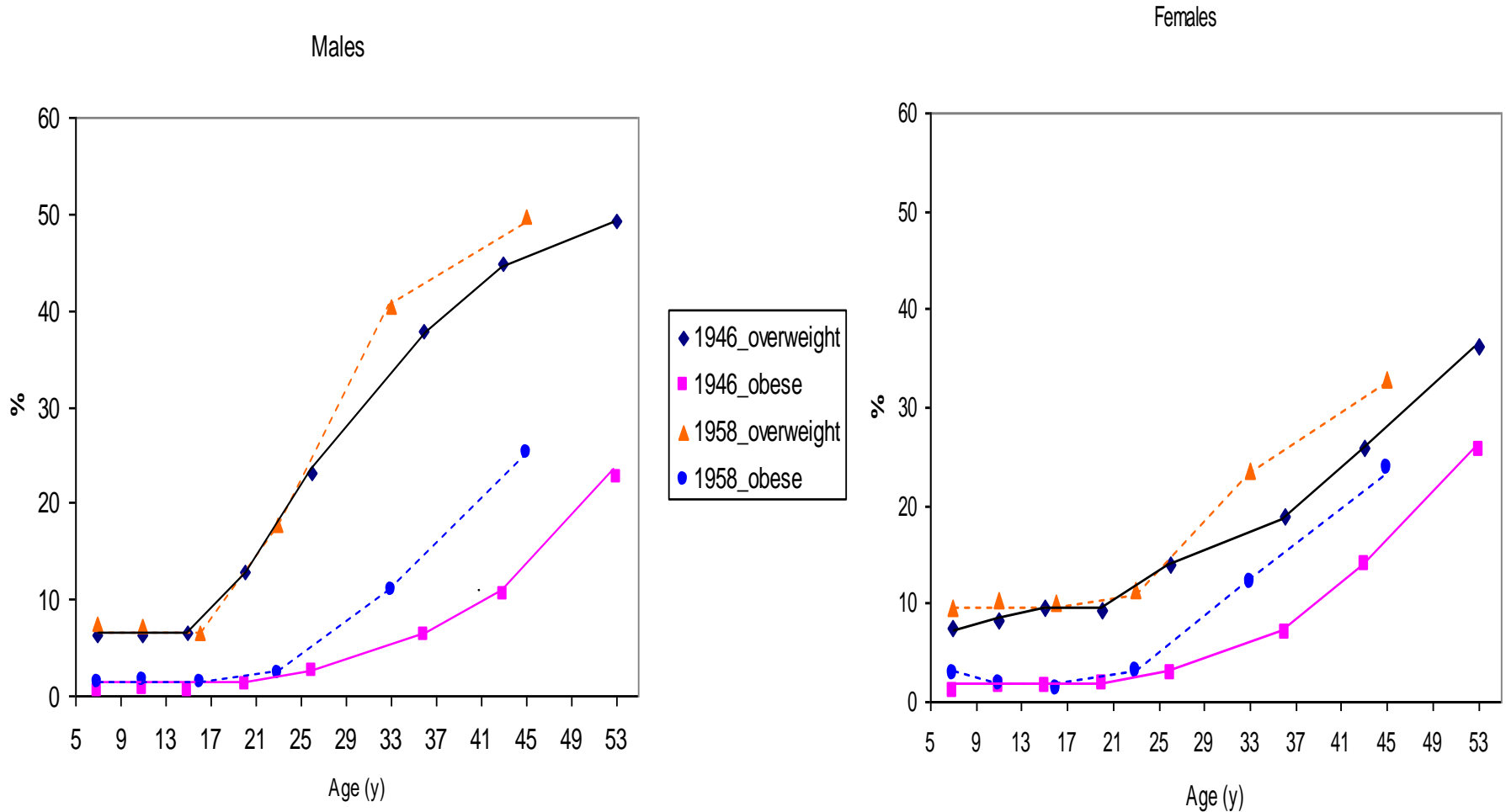
## Which measures?

- Builds on previous experience of LHA
- Start with measures of body size
- Others in priority order:
  - Blood pressure
  - Lung function
  - Grip strength
  - Physical performance
  - Cognitive performance

## Which cohorts?

- MRC NSHD
- NCDS
- BCS
- ALSPAC
- MCS
- Biobank
  
- SWS
- HAS
- HCS

# Overweight and obesity in 1946 & 1958 cohorts (Li et al AJE, 2008)



# Timetable and outputs

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Task	Date
Compare measurement protocols and evaluate need for correction factors	May 2013
Meeting of experts	June 2013
Harmonisation of measures as agreed and production of datasets	June 2014
Scientific demonstration project and paper submission	Nov 2014
Produce documentation	Jan 2015

# Scientific demonstration project

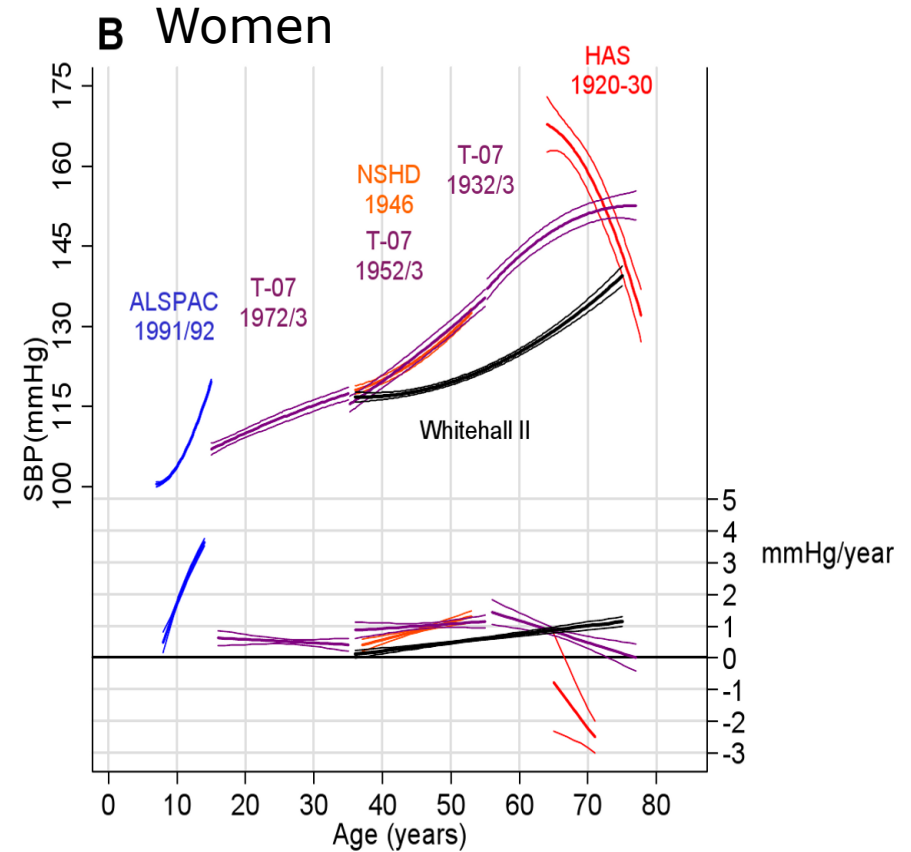
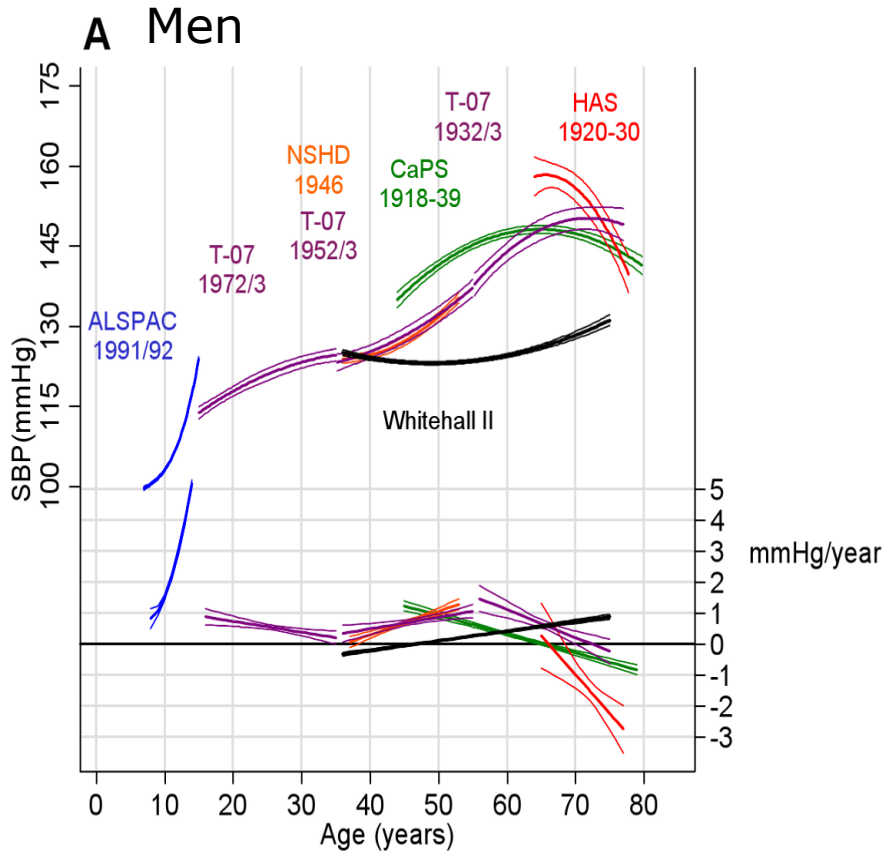
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- Compare socioeconomic inequalities in body size trajectories across cohorts
- Carry out sensitivity analyses
- Longitudinal modelling and harmonisation within cohorts - methodology

## Challenges for body size measures

- Self-reported versus measured
- Rounding accuracy
- Conversion from imperial to metric measures

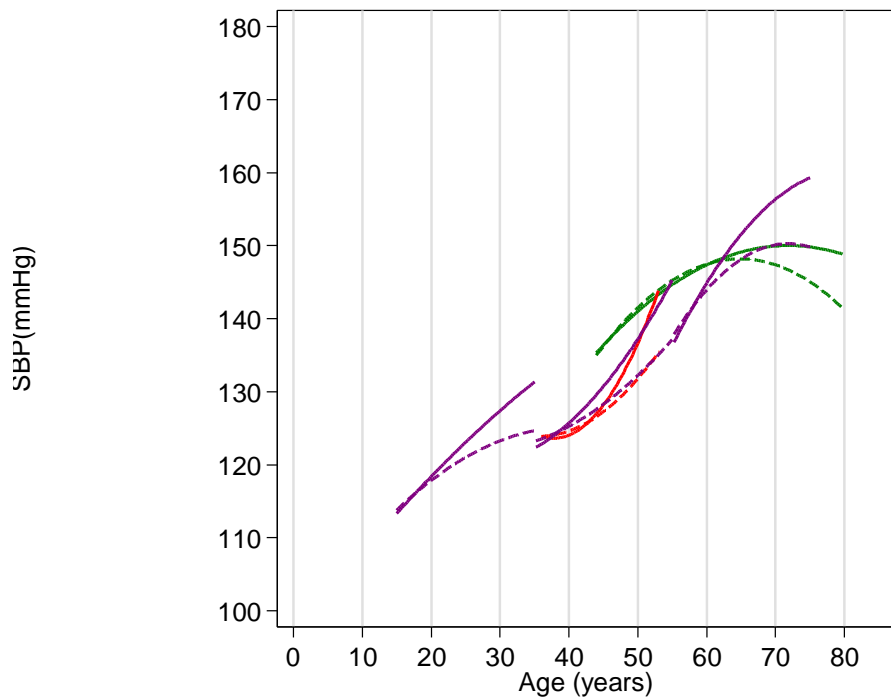
# Predicted mean SBP trajectories and velocities (95% CI) (Wills A et al PLoS Med, 2011)



Practice of Epidemiology

Algorithms for Converting Random-Zero to Automated Oscillometric Blood Pressure Values, and Vice Versa

Andreas Stang<sup>1</sup>, Susanne Moebus<sup>2</sup>, Stefan Möhlenkamp<sup>3</sup>, Nico Dragano<sup>4</sup>, Axel Schmermund<sup>5</sup>,  
 Eva-Maria Beck<sup>2</sup>, Johannes Siegrist<sup>4</sup>, Raimund Erbel<sup>3</sup>, and Karl-Heinz Jöckel<sup>2</sup> on behalf of the  
 Heinz Nixdorf Recall Study Investigative Group



— No correction  
 - - - correction

# 1<sup>st</sup> or 2<sup>nd</sup> reading:

