Agenda

- Background
- Longitudinal Weights
- Cross-Sectional Weights
  - Main Cross-Sectional Weights
  - Nurse Weights
  - Self-Completion Weights
- Clustering & Stratification Variables
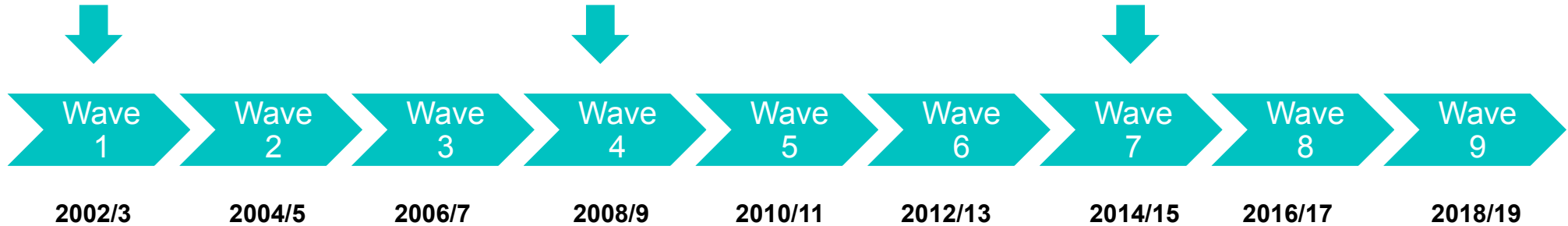- Q & A

Background

1.

History of ELSA

Original sample
HSE 1998/1999/2001
Age 50+, 1 Mar 2002

Refreshment sample
HSE 2006
Age 50-74, 1 Mar 2008

Refreshment sample
HSE 2011/12
Age 50-51, 1 Mar 2014

Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 6	Wave 7	Wave 8	Wave 9
2002/3	2004/5	2006/7	2008/9	2010/11	2012/13	2014/15	2016/17	2018/19

Refreshment sample
HSE 2001/02/03/04
Age 50-52, 1 Mar 2006

Refreshment sample
HSE 2009/10/11
Age 50-55, 1 Mar 2012

Refreshment sample
HSE 2013/14/15
Age 50-53, 1 Mar 2018

3

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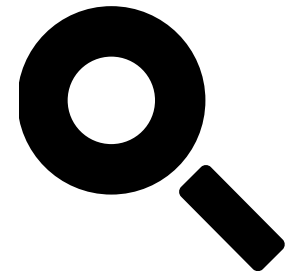
Longitudinal Weights

2.

Key Points

- Aim to make the sample representative of those aged 50+ living in England at a single point in time

- Assigned to core members only

- Produced by assessing differences between respondents and non-respondents on a number of characteristics, e.g.:

  - Age (at wave 1) by sex;
  - Government Office Region ;
  - Number in household;
  - Whether had a long-term limiting illness;
  - White/non-white ethnicity;
  - Self-reported general health.
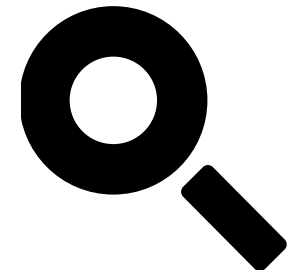
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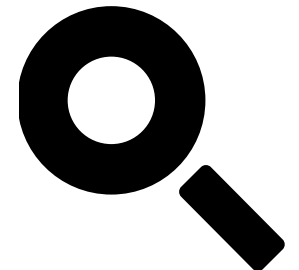
Key Points

- Built upon longitudinal weights from each previous wave, as weights apply to those who have taken part in each wave

  - 1 weight is available in each Wave 3-8 using Wave 1 core members as a base

  - 1 additional weight is available at Wave 8 using Wave 4 core members as a base

- Applied when analysing individual change over time

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Longitudinal Weights by Wave

Wave	Variable	Core Members
3	W3LWGT	7,168
4	W4LWGT	5,971
5	W5LWGT	5,262
6	W6LWGT	4,711
7	W7LWGT	4,062
8	W8W1LWGT	3,470
8	W8W4LWGT	5,623

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Cross-Sectional Weights

3.

Key Points

- Aim to make the sample representative of those aged 50+ living in England at the specific time of each wave

    - therefore do NOT include those who have moved out of England

- Assigned to core members only

- Produced by assessing differences between respondents and non-respondents on a number of characteristics
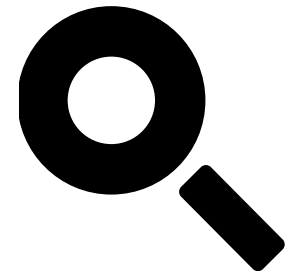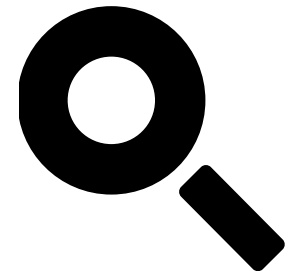
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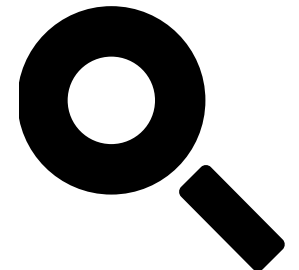
Wave 8 Example

W8W1LWGT, n=3,470

W8W4LWGT, n=5,623

W8XWGT, n=7,133

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Main Cross-Sectional Weights by Wave

Wave	Variable
1	W1WGT
2	W2WGT
3	W3XWGT
4	W4XWGT
5	W5XWGT
6	W6XWGT
7	W7XWGT
8	W8XWGT

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Nurse Weights by Wave

Wave	Nurse Variable	Blood Variable
2	W2NURWT	W2BLDWT
4	W4NURWT	W4BLDWT
6	W6NURWT	W6BLDWT
8	W8NURWT	W8BLDWT

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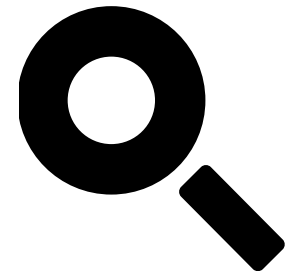
Self-Completion Weights by Wave

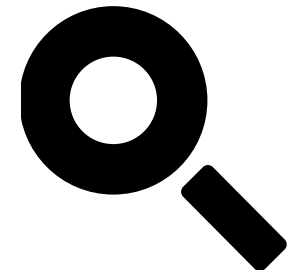| Wave	Self-Completion Variable	Sexual Self-Completion Variable
4	W4SCWT	N/A
5	W5SCWT	N/A
6	W6SCWT	W6SSCWT
7	W7SCWT	N/A
8	W8SCWT	W8SSCWT

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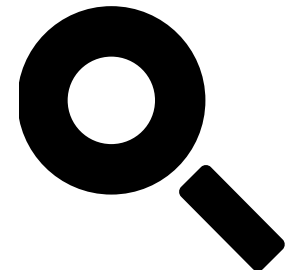
Clustering & Stratification Variables

4.

Clustering & Stratification Variables

Wave	Cluster Variable	Stratification Variable
1	AHSECLS2	ASTRATIF
2	HSECLST	ASTRATIF
3+	IDAHHWN (household serial number: 'IDAHHW' plus Wave number e.g. for Wave 5, this is IDAHHW5)	GOR

Questions?

Useful Resources

ELSA Main Interview User Guide (Section 5):

http://doc.ukdataservice.ac.uk/doc/5050/mrdoc/pdf/5050_waves_1-8_interviewer_data_user _guide_v01.pdf

ELSA Nurse User Guide (Section 6):

http://doc.ukdataservice.ac.uk/doc/5050/mrdoc/pdf/5050_waves_2-4-6-8_nurse_data_user_guide_v01.pdf

Weighting in Stata:

https://stats.idre.ucla.edu/stata/faq/how-do-i-use-the-stata-survey-svy-commands/

Weighting in SPSS:

https://www.spss-tutorials.com/spss-weight-command/

Weighting in SAS:

https://support.sas.com/documentation/cdl/en/statug/63347/HTML/default/viewer.htm#statug_freq_sect012.htm

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