
Gateway to Global Aging Data Advanced Workshop

Beate Lichtwardt – Accessing ELSA data via the UK Data Service

UK Data Service
University of Essex
United Kingdom

**Drystan Phillips – Cross-country analysis using Harmonised ELSA
and RAND HRS data**

Gateway to Global Aging Data
Center for Economic and Social Research
University of Southern California
United States of America

Webinar, 20 October 2016

UK Data Service



Gateway to Global Aging Data Advanced Workshop

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University of Essex
United Kingdom

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UK Data Service



Roadmap

- overview UK Data Service
- finding and accessing data on ageing/ ELSA data
- exploring ELSA data online
- user support and resources



What is the UK Data Service?

- a comprehensive resource funded by the ESRC
- a single point of access to a wide range of secondary social science data (7,000 datasets)
- support, training and guidance

(listen to the recorded webinars at [/ukdataservice.ac.uk/news-and-events/webinars.aspx](https://ukdataservice.ac.uk/news-and-events/webinars.aspx))



UK Data Service

The screenshot shows the UK Data Service homepage. At the top right, there are links for 'Site search', 'FAQ', 'Help', 'Contact', and 'New users'. Below this is a navigation menu with 'UK Data Service' on the left and 'About us', 'Get data', 'Use data', 'Manage data', 'Deposit data', and 'News and events' on the right. The main header features the UK Data Service logo, social media icons for LinkedIn, Facebook, and Twitter, and a 'Register / Login' button. A large dark blue banner contains the text 'Explore the UK's largest collection of social, economic and population data resources.' and a search bar with a 'Search data' dropdown and a magnifying glass icon. Below the banner, there are two columns: 'About the UK Data Service' with a video player showing red double-decker buses, and 'Guides and resources' with a list of links: 'Dataset guides', 'Topic guides', 'Methods and software guides', and 'Guides to exploring online', followed by a 'See more >' link. To the right of the guides is a 'Video tutorials' section with a photo of a woman at a laptop and the text 'See our growing range of training videos'. At the bottom, a dark blue banner features the text 'See data from all over the world' and a 'Browse our data map' button.

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Explore the UK's largest collection of social, economic and population data resources.

Search data

About the UK Data Service



Guides and resources

- Dataset guides
- Topic guides
- Methods and software guides
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See more >

Video tutorials

See our growing range of training videos

See data from all over the world

Browse our data map

ukdataservice.ac.uk

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Who is it for?

- academic researchers and students
- government analysts
- charities and foundations
- business consultants
- independent research centres
- think tanks



Data sources

- official agencies - mainly central government
- international statistical time series
- individual academics - research grants
- market research agencies
- public records/historical sources
- access to international data via links with other data archives worldwide



Types of data collections

- survey microdata
 - cross-sectional
 - panel/ longitudinal
 - international microdata
- aggregate statistics
 - international macrodata
- Census data
 - aggregate data for 1971-2011
 - microdata for 1991, 2001 and 2011
- qualitative/ mixed methods data
 - in-depth interview transcripts, diaries, anthropological field notes, answers to open-ended survey questions, audio-visual recordings and images



Overview service

Kinds of data:

UK Surveys

large-scale
government
funded
surveys

Longitudinal

major UK
surveys
following
individuals
over time

International

multi-nation
aggregate
databanks
and survey
data

Census

Census data
1971 – 2011

Business

microdata

Qualitative

range of
multimedia
qualitative
data sources



Key data - longitudinal data

- National Child Development Study (NCDS)
- 1970 British Cohort Study (BCS70)
- Millennium Cohort Study (MCS)
- British Household Panel Survey (BHPS)
- Understanding Society/
UK Household Longitudinal Study (UKHLS)
- Families and Children Study (FACS)
- **English Longitudinal Study of Ageing (ELSA)**
- Next Steps (Longitudinal Study of Young people in
England - LSYPE)
- Growing Up in Scotland (GUS)
- Life Study

English Longitudinal Study of Ageing (ELSA): Waves 0-7, 1998-2015 (SN 5050)

- ELSA - is a longitudinal survey of ageing and quality of life among older people that explores the dynamic relationships between health and functioning, social networks and participation, and economic position as people plan for, move into and progress beyond retirement.
- 1 in 3 people in England are now over 50, which means it's really important to understand what life is like for England's ageing population.
- ELSA helps the government plan health care services and pensions systems to best meet the needs of this growing population.



The main objectives of ELSA are to:

- construct waves of accessible and well-documented panel data;
- provide these data in a convenient and timely fashion to the scientific and policy research community;
- describe health trajectories, disability and healthy life expectancy in a representative sample of the English population aged 50 and over;
- examine the relationship between economic position and health;
- investigate the determinants of economic position in older age;
- describe the timing of retirement and post-retirement labour market activity; and
- understand the relationships between social support, household structure and the transfer of assets.



English Longitudinal Study of Ageing

- collects data from a representative sample (~10 000) of the population aged 50+ in England on a range of indicators

health
economic circumstances
well-being
social participation



- 7 waves of data collection have been conducted so far between 1998-2015

Key findings include:

- More people aged over the state pension age are working than ever before. Over a third of 60-69 year olds were either employed or self employed in the last month.
- The majority of people over the age of 50 report hardly ever or never experiencing feelings of loneliness.
- More women than men report difficulty with activities related to daily living like climbing the stairs and showering.

www.natcen.ac.uk/our-research/research/english-longitudinal-study-of-ageing/

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Wave 3 Life History Essays

A set of 558 transcripts of short essays collected from respondents to the Wave 3 Life History Interview are provided in RTF format, in a separate download zip file. The essays were written in response to section 3 of the Life History self-completion questionnaire.

"Thinking back over your life, with its wide variety of enjoyable as well as difficult experiences, please write about three aspects of your life that have been especially important to you, and how they affected you."

Finding ELSA data



Key data search

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Home > Discover data > Key data > Cohort and longitudinal studies

Key data

Browse our most popular datasets, by data type.

UK surveys	Cross-national surveys	Longitudinal studies	International macrodata	Census data
Business microdata	Qualitative / mixed methods	Administrative data		

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Longitudinal studies involve repeated observations of the same subjects, allowing researchers to analyse change at the individual level.

The UK is home to several key longitudinal studies, including major panel and internationally-renowned cohort studies.

- [Discover data](#) from longitudinal studies
- [Discover case studies](#) relating to longitudinal studies

1970 British Cohort Study

The 1970 British Cohort Study (BCS70) follows the lives of more than 17,000 people born in England, Scotland and Wales in a single week of 1970. Over the course of cohort members' lives, the BCS70 has broadened from a strictly medical focus at birth to collect information on health, physical, educational and social development, and economic circumstances among other factors.

British Household Panel Survey

The British Household Panel Survey (BHPS) was carried out by the Institute for Social and Economic Research (ISER) from 1991-2009 (Waves 1-18). From Wave

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ANALYSING CHANGE OVER TIME

Read our introductory guide to quantitative analysis of change over time using different types of data and different methods commonly used to analyse these data.

ukdataservice.ac.uk/get-data/key-data.aspx

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Type +

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Tuesday 17 December 20
UKDS.Stat, Beyond 20/2

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Subject +

Date +

Data type +

Key data +

Country +

Kind of data +

Spatial unit +

Analysis unit +

Access +

Depositor +

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Data by theme

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UK Data Service has web pages to aid researchers looking specifically for data on particular themes:

- Ageing**
Ageing is the accumulation of a wide range of changes experienced by a person over time, including physical, psychological, and social factors. In particular, given the rise in life expectancy, there has been increasing focus on the social factors of ageing e.g. longer working hours, pensions, issues related to health and quality of life. Equally, social inequalities caused by increasing longevity also raise a complex set of challenges for policy makers. The UK Data Service holds a variety of data collections related to ageing, from key government and longitudinal surveys to international indicators and qualitative historical interviews.
- Crime and social control**
'Crime' encompasses a wide range of issues that lie within the remit of several academic disciplines, including sociology, psychology, law and economics. As a theme, crime may cover various topics, ranging from contemporary concerns over youth gangs and anti-social behaviour, through 'white collar' and corporate crime, including crimes against the environment, to serious violence. Crime-related data held by the UK Data Service include not only national crime surveys (which themselves cover diverse issues such as identity theft and alcohol-related disorder in the night-time economy) but also illegal drug use, workers in the criminal justice system, football hooliganism and community policing in Africa.
- Education**
Education is a key factor in shaping an individual's life chances. It not only determines later employment chances, but also living and housing conditions, nutrition and health, participation in social life, friends and

ABOUT OUR DATA

Key data

- Data by theme**
- Ageing
- Crime
- Education
- Environment
- Health
- Housing
- Labour

Data by geography

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A suite of web pages to aid researchers looking specifically for data on environment and energy

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- Crime and social control
- Education
- Environment and energy
- Health and health behaviour
- Housing and local environment
- Labour market

ukdataservice.ac.uk/get-data/themes.aspx

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ELSA - data access



Accessing ELSA data

- web access to ELSA data and metadata at: discover.ukdataservice.ac.uk/catalogue/?sn=5050&type=Data%20catalogue
- requires agreement to Special Condition online
- data supplied in
 - SPSS, STATA, SAS, TAB
 - RTF (Life History Essays)

Downloading data and documentation

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Discover > Catalogue

Catalogue

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Variable and question bank

QualiBank

UK Data Service data catalogue record for:

English Longitudinal Study of Ageing: Waves 0-7, 1998-2015

[Documentation](#) | [Related Studies](#) | [Publications](#) | [Syntax](#) | [Access online](#) | [Download/Order](#) | [DOI XML](#)

TITLE DETAILS

SN:	5050
Title:	English Longitudinal Study of Ageing: Waves 0-7, 1998-2015
Alternative title:	ELSA
Persistent identifier:	10.5255/UKDA-SN-5050-12
Series:	English Longitudinal Study of Ageing [English Longitudinal Study of Ageing]
Depositor:	NatCen Social Research
Principal investigator(s):	Marmot, M., University College London. International Institute for Society and Health Oldfield, Z., Institute for Fiscal Studies Clemens, S., NatCen Social Research Blake, M., NatCen Social Research Phelps, A., NatCen Social Research Nazroo, J., University of Manchester. School of Social Sciences Stephoe, A., University College London. UCL Research Department of Epidemiology and Public Health Rogers, N., University College London. UCL Research Department of Epidemiology and Public Health Banks, J., Institute for Fiscal Studies and University of Manchester School of Social Sciences Oskala, A., NatCen Social Research
Data collector(s):	NatCen Social Research
Sponsor(s):	National Institute of Aging

discover.ukdataservice.ac.uk/catalogue/?sn=5050&type=Data%20catalogue

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Usage details

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Special Conditions

Datasets for usage 90651 - Teaching

Use the download column to download now or request for download or the other media column to e.g. request data on CD. Add more datasets to this usage below.

SN	Study Description	Status	Download	Explore Online	Other media
5050	English Longitudinal Study of Ageing: Waves 0-7, 1998-2015	Accept special condition	Not available	-	-
7664	Quarterly Labour Force Survey, October - December, 2014		<input type="button" value="Download"/>		<input type="checkbox"/>
7725	Quarterly Labour Force Survey, January - March, 2015		<input type="button" value="Download"/>		<input type="checkbox"/>
					<input type="button" value="GO"/>

All requests are usually made available within 15 working days. Download requests are usually supplied in SPSS, STATA, TAB and RTF (qualitative only) formats and include documentation (in Adobe Acrobat PDF format). If data are required on CD or in another format, please use the 'Other media' option.

Add a dataset to this usage - enter the study number (e.g. 1234)

If you do not know the study number(s), find datasets using [Search catalogue](#), [Major studies](#) and use the 'Download/Order' links to add the study to this usage.

Order or view previous orders for datasets from a non-UK archive that do not have a study number in our online catalogue

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Here are some links to get started with the service:

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- major studies are now called [key data](#)
- learn about access to [UK Census data](#)
- [login to your account](#)
- [deposit data](#)
- read our [FAQs](#) for current users
- [get in touch](#) with questions or comments

Special condition for SN : 5050

SN 5050 English Longitudinal Study of Ageing

Confidentiality

- I agree not to link nor attempt to link the ELSA Wave 0 data to the Health Survey for England (HSE) data
- I agree not to use the Wave 0 data in any way to identify participants from ELSA or HSE
- I agree not to use nor attempt to use ELSA data to identify specific geography from which the study sample was selected, nor to claim to have done so

I accept

I do not accept



Download

You have selected to download the following dataset -

SN: 5050 English Longitudinal Study of Ageing: Waves 0-7, 1998-2015

For Usage -

Usage number: [90651](#)

Usage title: Teaching

Intended use: NON-COMMERCIAL

Under 'Format download' click on your chosen format button. **You must choose to 'Save this file to disk'.**

See [Download and format help](#) if you have problems downloading and for advice on choice of formats, file contents, and unzipping the compressed zip file.

Format download	Filename	File size
OTHER	5050SAS_2C776A37C101291624D1A5C9142DEEF2_001.ZIP	190.13 MB
SPSS	5050SPSS_CA0F146A3E58F44DDF3AA10CABFB97E0_001.ZIP	141.46 MB
STATA	5050STATA13_AB882D8E0AD5C9CD29C591480E15B05D_001.ZIP	135.53 MB
TAB	5050TAB_74BBA1254FFAD1341D83D9EF158B6B14_001.ZIP	144.64 MB
RTF	5050WAVE3LIFEHISTORYESSAYS_RTF_9E68A3589CDF7991EAFE2A9C48286373_001.ZIP	7.62 MB

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Home > Discover data > How to access > Download and order

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Information about how to download, order or request access to Safeguarded and Controlled data are provided below.

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3. register a new use of the data, or choose from any previously registered usages
4. enter a short summary describing your intended use of the data
5. click 'Add datasets' and the selected data collection will be added to your usage
6. agree any special conditions associated with the selected datasets. These will appear in the 'Status' column
7. click 'Download' and accept the EUL reminder
8. select the download format required and the download will begin. Note that where the format option is 'Other', format guidance is usually given within the zip file name, for example, SAS

Some data collections are not available for immediate download, and you will need to order the data. To do this, check the 'Other media' box and follow the online instructions.

View our video tutorial on how to download UK survey data.

How to download UK survey data
 

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ukdataservice.ac.uk/get-data/how-to-access/downloadorder.aspx



Exploring ELSA data

online



Online analysis with Nesstar

- online data browsing and analysis system
- allows users to search for, locate, browse and analyse and download a wide variety of statistical data within a web browser
- UK Data Archive, as service provider for the UK Data Service, hosts a Nesstar server populated by its most popular data series
- registration is required for analysis such as crosstabulations and regressions

nesstar.esds.ac.uk/webview/index.jsp



Explore ELSA teaching data in Nesstar

UK Data Service
Delivering quality social and economic data resources

DESCRIPTION TABULATION ANALYSIS

Dataset: English Longitudinal Study of Ageing (ELSA); Wave 1, 2002-2003: Teaching Dataset

Subject's sex: Categories On balance, I loo...se of happiness.: Categories Type: Row percentage

On balance, I look back on my life with a sense of happiness.	Often	Sometimes	Not often	Never	Total	N=
Subject's sex						
Male	69.0	25.7	4.1	1.2	100.0	4,709.3
Female	72.9	22.4	3.7	1.1	100.0	5,400.7
Total	71.1	23.9	3.9	1.1	100.0	10,110.0

Weight is on

Copyright held jointly between the Economic and Social Data Service, National Centre for Social Research, University College London and Institut University College London and Institute for Fiscal Studies.

In general, frequencies and tables should be weighted before quoting percentages from them. To apply weights, select the Wei documentation for further information on whether, and how, to correctly weight the data.

- Survey of Carers in Households
- Survey of English Housing
- Wales Life and Times Studies (Welsh Election Studies)
- Wealth and Assets Survey
- Welsh Health Survey
- Workplace Employment Relations Survey
- Young Life and Times Survey
- Young People's Social Attitudes Survey
- Teaching Datasets
- Avon Longitudinal Study of Parents and Children, Sampler Datasets
- British Cohort Studies
- British Household Panel Survey
- Crime Survey for England and Wales (formerly British Crime Survey)
- English Housing Survey
- English Longitudinal Study of Ageing
 - English Longitudinal Study of Ageing (ELSA); Wave 1, 2002-2003: Teaching Dataset
 - Metadata
 - Variable Description
 - Individual Demographics
 - Health
 - Social Participation
 - Work and Pensions
 - Income and Assets
 - Housing
 - Cognitive Function
 - Expectations
 - Psychosocial
 - Self-Completion
 - Age prevents me from doing the things I would like to.
 - I feel that what happens to me is out of my control.
 - I feel free to plan for the future.
 - I feel left out of things.
 - I can do the things I want to do.



Support and resources



Support and resources

- video tutorials/webinars
- case studies
- guides
- themes
- advice on managing and sharing data
- teaching data and resources
- helpdesk, individual user support



Home > News and Events > Events Item

Event

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Webinars

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Webinar: Born talking: Using birth cohort data about speech, language and communication practice

12 December 2014

Online at 3 pm

Birth cohorts are longitudinal studies of people. They involve data collected at regular intervals through the lifespan. They have implications for policy and practice in many areas. They are under-used to research speech, language and communication.

Findings from the birth cohorts collected for the UK Data Service Longitudinal Study Cohort (SLC), for example, demonstrating the factors associated with risk and resilience. This webinar is part of an ESRC-funded events in 2015-16 with the UK Data Service and SLC.

In this webinar, we seek to engage with researchers, practitioners, policy-makers and the public to shape upcoming events. Speaker: Professor James Law, Newcastle University and Wendy Lee, The Communication Trust. The webinar is facilitated by the UK Data Service, through which the birth cohort data are

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- [Key data: Key surveys \(national and cross-national\)](#)
- [2011 Census - aggregate data](#)
- [Open geographies and open software - using open UKDS Census Support datasets in open source GIS software](#)
- [Introduction to the UK Data Service](#)
- [Born talking: Using birth cohort data about speech, language and communication to inform policy and practice](#)
- [2011 Census - Flow Data](#)
- [An introduction to data and resources for librarians](#)
- [ReShare - the new data repository of the UK Data Service](#)
- [UK Data Service: an introduction to data on ageing](#)
- [New and easier ways of working with aggregate data and geographies from UK censuses webinar](#)
- [An introduction to the UK Data Service: resources for postgraduates](#)
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Data in use

"How our data are being used to advance research, inform policy and improve teaching"

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Find out what others have done with UK Data Service data and take a look at some selected case studies from researchers and teachers.

Every day, UK Data Service data are being used in leading-edge research and in university courses across the UK and beyond.

We have literally thousands of examples of how data from our collection are providing evidence to support research, inform policy decisions and teach the next generation of social scientists.

- Browse all [research case studies](#)
- Browse all [teaching case studies](#)
- Read more about the [impact of our data](#)
- Browse primary, [ESRC award outputs](#) associated with UK Data Service data collections

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Teaching with data

"Real data bring learning to life"



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We believe that the use of data in teaching is an invaluable way for learners to confront real-life research. The data collections:

- constitute well-documented examples of real-life data collection allowing students to engage critically with methods and methodologies
- provide rewarding raw material for data analysis teaching of all types
- can be used to enrich substantive teaching with evidence that can be interrogated

Register your class

Most of the data in our collection are only available to registered users. Find out how to register your students and share data with them here.

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DATA-DRIVEN LEARNING AND TEACHING

Download our brochure on using our data in learning and teaching. Printed copies can be sent on request.

RELATED LINKS

ESRC Quantitative Methods Initiative



Help

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Youtube: www.youtube.com/user/UKDATASERVICE



Questions?

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The Harmonized ELSA

Created to provide ELSA variables which are harmonized to be comparable to other international health and retirement studies.

- Incorporates the first six waves of ELSA (2002, 2004, 2006, 2008, 2010, 2012)
- The dataset is structured in a Fat Format where every individual is one record
- Variables are defined as similarly as possible to the RAND HRS definition of the variable
- Variable names are defined using the RAND HRS format e.g. r1work – whether the respondent is currently working in wave 1
- Variable names indicate how similar to the RAND HRS version of the variable. For example r1lbrf_e is the respondent's labor force status in wave 1 of ELSA, which has an ELSA specific response scale
- Spouse versions of most variables are also created e.g. s2work – whether respondent's spouse is currently working in wave 2
- Accompanied by the Harmonized ELSA Codebook

Cross-country analysis using the Harmonized ELSA and RAND HRS

Research question:

Are there gender differences in cognition and
are these differences consistent across all
age groups? Do we see the same patterns in
England as we do as the US?

Xiaoyan Lei, James P. Smith, Xiaoting Sun, Yaohui Zhao, Gender differences in cognition in China and reasons for change over time: Evidence from CHARLS, *The Journal of the Economics of Ageing*, Volume 4, December 2014, Pages 46-55, ISSN 2212-828X.

Cross-country analysis using the Harmonized ELSA and RAND HRS

Steps:

1. Identify relevant variables in the Harmonized ELSA and RAND HRS
2. Create pooled dataset with variables from both Harmonized datasets
3. Prepare variables
4. Apply weights
5. Analyze cognition across genders and ages for each country

Cross-country analysis using the Harmonized ELSA and RAND HRS

Verbal Memory Cognition: Word Recall Test

- Hotel
- River
- Tree
- Skin
- Gold
- Market
- Paper
- Child
- King
- Book

Cross-country analysis using the Harmonized ELSA and RAND HRS

Identify relevant variables in the Harmonized ELSA

Year of interest: 2010 – ELSA Wave 5

- Measure of cognition – r5tr20
- Gender identifier - ragender
- Age identifier – r5agey
- Analysis weight – r5cwtresp

Cross-country analysis using the Harmonized ELSA and RAND HRS

Identify relevant variables in the RAND HRS

Year of interest: 2010 – HRS Wave 10

- Measure of cognition - r10tr20
- Gender identifier - ragender
- Age identifier - r10agey_e
- Analysis weight - r10wtresp

Cross-country analysis using the Harmonized ELSA and RAND HRS

Create additional variables

- Create pooled dataset with variables from both Harmonized datasets

```
use r10tr20 ragender r10agey_e r10wtresp using rndhrs_o.dta
```

```
gen country = 840
```

```
append using H_ELSA.dta, keep(r5tr20 ragender r5agey r5cwtresp),  
gen(append)
```

```
replace country = 826 if append == 1
```

Cross-country analysis using the Harmonized ELSA and RAND HRS

Create additional variables

- Add labels to country identifier

```
label define iso 826 "England" 840 "USA"
```

```
label values country iso
```

Cross-country analysis using the Harmonized ELSA and RAND HRS

Prepare variables

- Adjust for differing wave numbers in variable names

```
gen r2010cog =.  
replace r2010cog = r10tr20 if country == 840  
replace r2010cog = r5tr20 if country == 826
```

```
gen weight =.  
replace weight = r10wtresp if country == 840  
replace weight = r5cwtresp if country == 826
```

Cross-country analysis using the Harmonized ELSA and RAND HRS

Prepare variables

- Adjust for differing wave numbers in variable names

```
gen r2010agey =.  
replace r2010agey = r10agey_e if country == 840  
replace r2010agey = r5agey     if country == 826
```

Cross-country analysis using the Harmonized ELSA and RAND HRS

Prepare variables

- Create age categories

```
egen r2010agecat = cut(r2010agey), at(55,60,65,70,75,80,110)  
label
```

Cross-country analysis using the Harmonized ELSA and RAND HRS

Apply weights

- Using `svyset` command

```
svyset [pw=weight], strata(country)
```

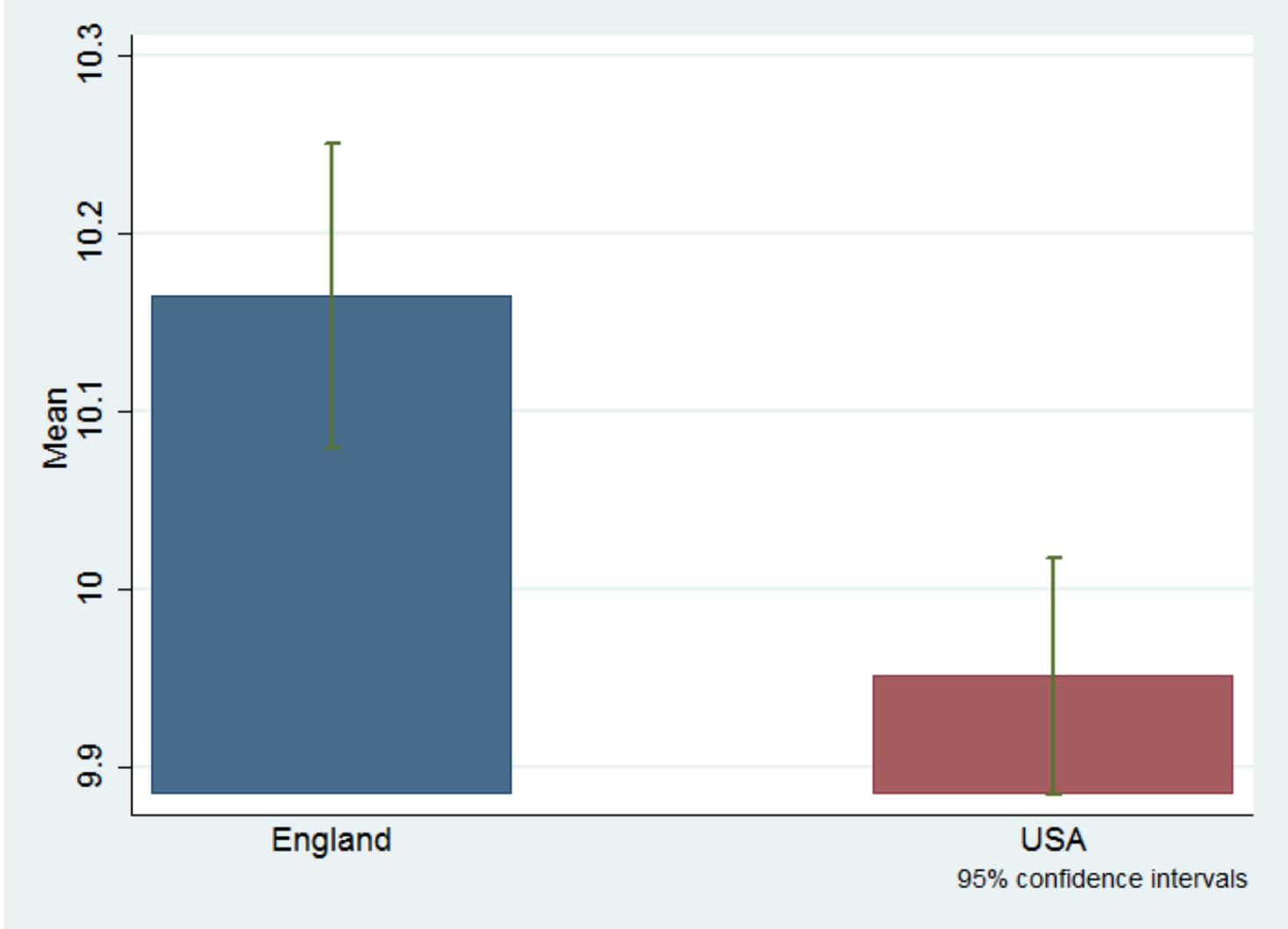
Cross-country analysis using the Harmonized ELSA and RAND HRS

Analyze cognition by country

- Estimate mean cognition for each country

```
svy, subpop(if inrange(r2010agey,55,110)): mean r2010cog,  
over(country)
```

Cross-country analysis using the Harmonized ELSA and RAND HRS



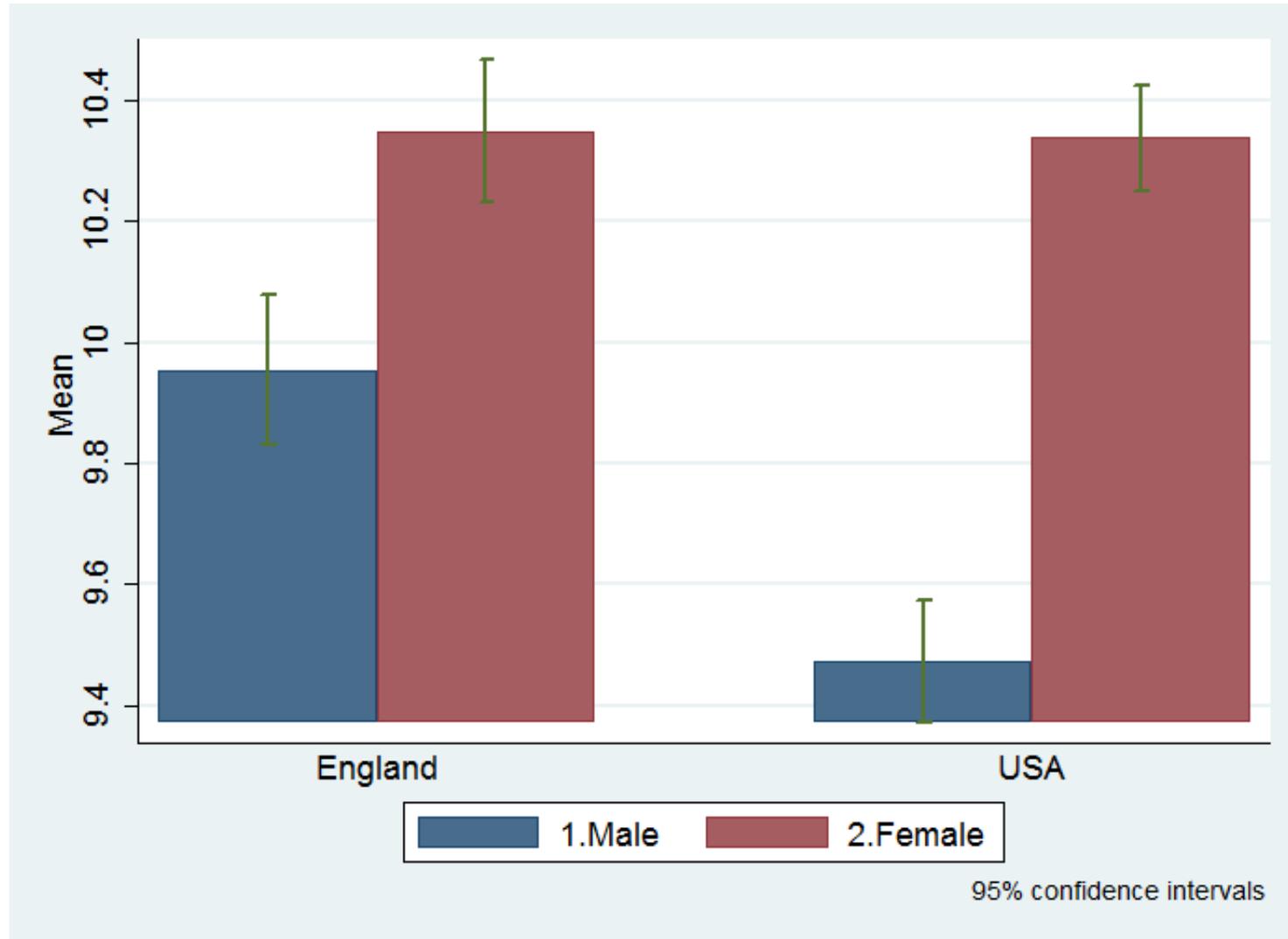
Cross-country analysis using the Harmonized ELSA and RAND HRS

Analyze cognition across country and gender

- Estimate mean cognition for each gender in each country

```
svy, subpop(if inrange(r2010agey, 55, 110)): mean r2010cog,  
over(country ragender)
```

Cross-country analysis using the Harmonized ELSA and RAND HRS



Cross-country analysis using the Harmonized ELSA and RAND HRS

Analyze cognition across genders and ages for each country

- Estimate mean cognition for each country-gender-age group

```
svy: mean r2010cog, over(country ragender r2010agecat)
```

- Test the difference for the youngest group in England

```
test [r2010cog]_subpop_1=[ r2010cog]_subpop_7
```

- Test the difference for the youngest group in the US

```
test [r2010cog]_subpop_13=[ r2010cog]_subpop_19
```

Cross-country analysis using the Harmonized ELSA and RAND HRS

Analyze cognition across genders and ages for each country

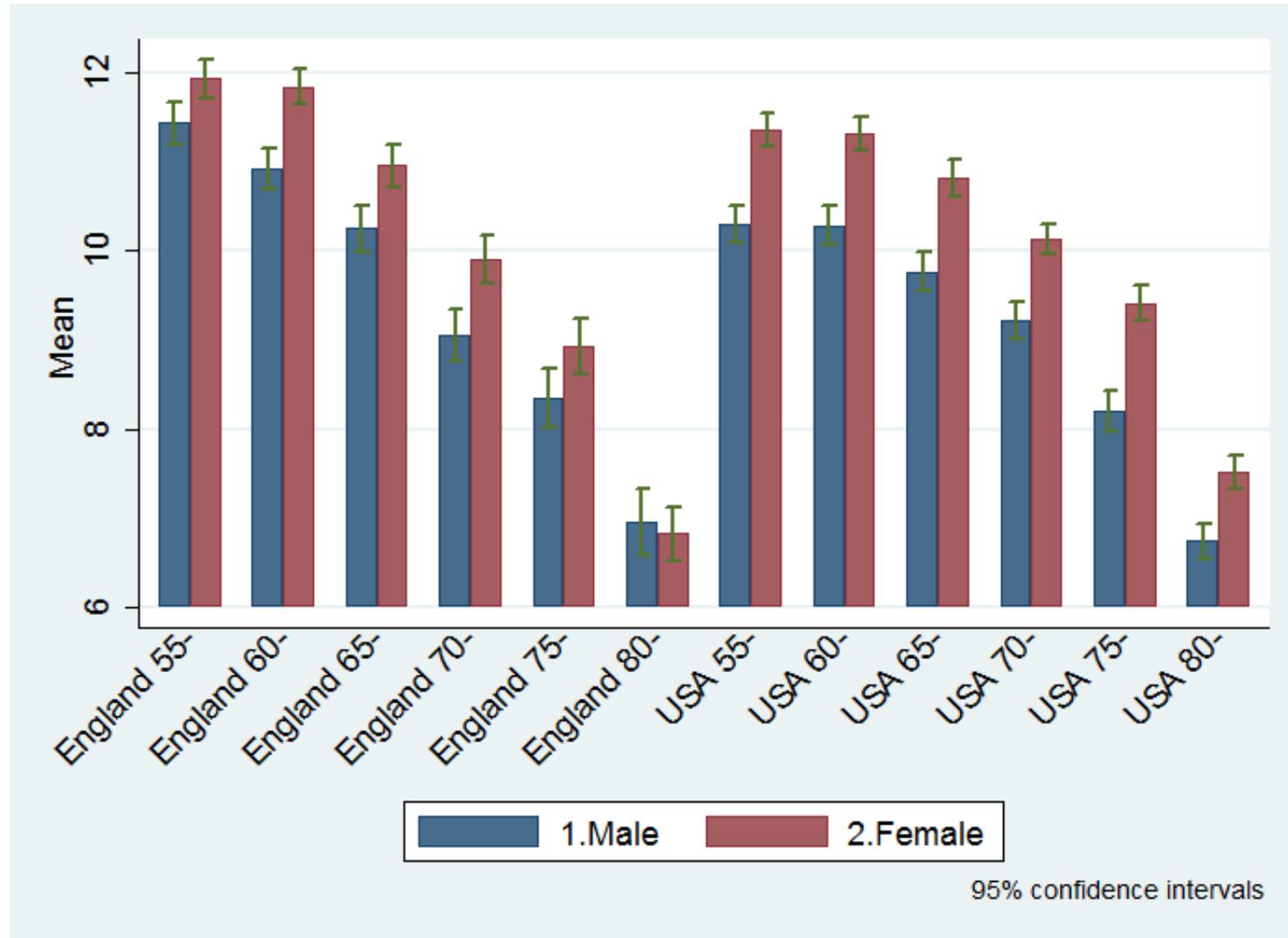
- Test the difference for the oldest group in England

```
test [r2010cog]_subpop_6=[ r2010cog]_subpop_12
```

- Test the difference for the oldest group in the US

```
test [r2010cog]_subpop_18=[ r2010cog]_subpop_24
```

Cross-country analysis using the Harmonized ELSA and RAND HRS



Contact us at
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Questions?