

#### Getting Started: An introduction to four British cohort studies

15 November 2023

Centre for Longitudinal Studies, UCL Social Research Institute

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#### Housekeeping



- Please keep your cameras off and mics muted at all times
- If you have a question, please use the chat function, and please note your question will be visible to all attendees
- Technical issues please email us: <u>ioe.clsevents@ucl.ac.uk</u>
- We would be grateful for your feedback. Please follow the link in the chat at the end of the event for the short survey

Thank you for joining us today

#### Today's schedule

Session	Time	Topics covered	Speaker
1.	13.00 – 13.15	Introduction	Dr Vanessa Moulton
			Senior Research Associate
2.	13.15 –13.35	Content by 'subject area'	Prof. Morag Henderson
			Professor in Sociology
3.	13.35 – 13.55	Overview of the type of analysis	Dr Richard Silverwood
			Associate Professor
4.	13.55 – 14.20	Getting started with the data	Dr Vanessa Moulton
		And where to go for more information	Senior Research Associate
5.	14.20 – 14.30	General Q&A	All



#### **Birth cohort studies**

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- Cohort studies are a type of *longitudinal study*—an approach that follows participants over a period of time (often many years)
- Participants share a common characteristic, i.e. birth cohorts follow individuals born in a particular period - a day, week, month, year
- It follows these people throughout their lives, and collects information from them at particular ages
- During the period of follow-up, some of the cohort will be exposed to a specific risk factor or characteristic; by measuring outcomes over a period of time, it is then possible to explore the impact of this variable



Health Matters

#### The life course approach – life stages





#### Our new studies

#### Early Life Cohort Feasibility Study (fieldwork underway in 2023)

- ESRC funded study following a cohort of several thousand babies born in the UK in 2022.
- Will provide vital new insights into the health and development of children + test feasibility of setting up a new full-scale birth cohort study in future.
- Expected data release: late 2024.

#### Children of the 2020s Study (fieldwork began in 2022)

- Department for Education commissioned study following a cohort of babies born in England between September and November 2021 (around 8,500 families).
- Will answer important scientific and policy questions about family, early education and childcare determinants of early school success.
- Wave 1 (nine months old) completed and Wave 2 (two years old) underway.

#### <u>COVID Social Mobility and Opportunities study</u> (fieldwork began in 2021)

- A UKRI funded study following over 13,000 young people (in Year 11 in the academic year 2020-21).
- Is providing new information about the effects of COVID-19 pandemic and the cost of living crisis on young people's lives and prospects.
- Wave 1 and 2 data available now.

#### Four national longitudinal studies

1958 National Child Development Study (NCDS)

1970 British Cohort Study (BCS70)

Next Steps (formerly LSYPE)

Millennium Cohort Study (MCS)

born in GB in one week. N = 17,415

born in GB in one week. N = 17,196

living in England born in 1989/90. Began aged 13-14. N = 15,770

born in the UK in 2000-02. N = 18,818

1960	1980	2000	2020
1000	1000	2000	

#### Study timelines and future 2020-2030





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#### <u>An example:</u> <u>NCDS</u> A study of everyone born in one week in 1958 (GB)

	1958	1965	1969	1974	1981	1991	2000	2003	2004	2008	2013	
	Birth	7	11	16	23	33	42	44	46	50	55	
<b>D</b> O main respondent	mother	parents	parents	cohort member / parents	cohort member	cohort member	cohort member	cohort member	cohort member	cohort member	cohort member	
		school	school	school		children (1 in 3)						
s medical	medical exam	medical exam Ht/Wt	medical exam Ht/Wt	medical exam Ht/Wt	Ht/Wt	Ht/Wt		Ht/Wt blood - DNA biomedical		Ht/Wt	Ht/Wt	
survey instruments		cognitive mental h.	cognitive mental h.	cognitive mental h.	mental h.	mental h.	mental h.	biomodiodi		cognitive mental h.		
linked data				area of residence (census)	area of residence (census)					consent for health and economic records		
response rate	17,415	15,425	15,337	14,654	12,537	11,469	11,419	9,377	9,534	9,790	9,137	

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#### Other data enhancements in the birth cohorts

- Genetic data in the NCDS, BCS70 and MCS
  - MCS Trios (cohort, mother, father)
- Linked administrative data
  - Health and education
  - Consent: Employment (all) and crime (Next Steps, MCS)
- Geographical data

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- e.g. electoral wards, output areas, Points of Interest etc
- Harmonised datasets across the cohorts
  - Socio-economic, BMI, mental health, child environment
- COVID-19 online surveys
  - Possible impacts of pandemic on multiple aspects of life

#### Wide range of topics including family, employment, home schooling, mental health during lockdown and an open question on affects of the pandemic



## Thank you

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# The cohort studies by scientific theme/discipline

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# Subject areas

- Physical health
- Mental health & Wellbeing
- Family and relationships
- Earnings and income
- Education, ability and cognitive measures

...but there are many more



#### Typical information covered

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Birth	School years	Adult
Household composition Parental social class Obstetric history Smoking in pregnancy Pregnancy (problems, antenatal care)	Household composition Parental social class Parental employment Financial circumstances Housing Health	Household composition Employment Social class Income Housing Health (including biomarkers)
Labour (length, pain relief, problems) Birthweight, length	Cognitive tests Emotions and behaviour School Views and expectations Attainment	Well-being and mental health Health-related behaviour Training and qualifications Basic skills Cognitive tests Views and expectations



## **Physical Health**

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Physical health measures	NCDS 58	BCS 70	NS 89	MCS 01
Self assessed general health	7, 11,16, 33, 44, 46, 50, 55	5, 10, 16, 34, 42, 46	25	3, 5, 7, 11, 14, 17
BMI, Height, Weight	7,11, 16, 23, 33, 42, 44, 50, 55	10,16, 26, 30, 34, 42, 46	25	3, 5, 7, 11, 14, 17
Hospital Episodes Statistics:	England & Scotland ✓	England & Scotland ✓	England ✓	Scotland & Wales ✓
DNA /biomarkers	44 (available)	46 (genotyping)	Planned for age 32	14 (available)
Physical activity (leisure time)	11, 16, 23, 33, 42, 44, 50, 55	5, 10, 16, 34, 42, 46	20, 25	5, 7, 11, 14, 17
Diet related measures (intake, overeating)	7, 33, 42, 44	10, 16, 30, 34, 42, 46	25	9 months, 3, 7, 11, 14, 17
Anthropometry (e.g. blood pressure, body fat, grip strength, vision, motor skills )	7, 11, 16, 44	10, 16, 46 + accelerometry	-	3, 7, 11, 14, 17 (10, 14 acceler)
Medical conditions/ *long term illness	0, 7, 11, 26, 23, 33, 42, 44, 46, 50, 55	0, 5, 10, 16, 26, 30, 34, 38, 42, 46	14*, 15*, 16*, 17*, 18*, 19*, 20*, 25*	9m, 3, 5, 7, 11, 14, 17
Drugs & alcohol consumption	16, 23, 33, 42, 44, 46, 50, 55	16, 26, 30, 34, 42, 46	14, 15, 16, 17, 18, 19, 20, 25	11, 14, 17

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Drugs & alcohol consumption	16, 23, 33, 42, 44, 46, 50, 55	16, 26, 30, 34, 42, 46	14, 15, 16, 17, 18, 19, 20, 25	11, 14, 17

Health measures in COVID-19 web surveys	NCDS 58	BCS 70	NS 89	MCS 01
COVID-19 antibodies N=10,442	n=3,222	n=2,547	n=1,267	CM Par n=1,140 n=2,266
Long COVID Symptoms Testing COVID presence	W3 W1, W2; W1, W2; W1, W2, W3			
Self-related general health	W1, W2, W3	W1, W2, W3	W1, W2, W3	W1, W2, W3
Long-standing health conditions	W1, W2, W3	W1, W2, W3	W1, W2, W3	W1, W2, W3
Disruption to medical appointments	W1, W2, W3	W1, W2, W3	W1, W2, W3	W1, W2, W3
Difficulty obtaining medication	W2, W3	W2, W3	W2, W3	W2, W3
Defined as vulnerable	W1, W2, W3	W1, W2, W3	W1, W2, W3	W1, W2, W3



## Mental Health & Wellbeing

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# Mental health & Wellbeing- all cohorts

- Bristol Social Adjustment Guide (BSAG)
- Conners teachers Hyperactivity Rating Scale (Conn)
- Rutter Behavioural Scale (RUT)
- Child Development Scale (combination of Rutter and Connor) (CDS)
- Strengths and difficulty questionnaire (SDQ)
- Mood and feelings questionnaire (MFQ)
- Malaise inventory (MAL)
- Kessler Scale (4 item) (K4)
- General Health Questionnaire (12-item version) (GHQ-12)
- Short Form Health Survey (SF-36)

• The Warwick-Edinburgh Mental Wellbeing Scale (WEMWEBS) LONGITUDINAL STUDIES

## Malaise

A nine-item Malaise Inventory: a measure of psychological distress Do you feel tired most of the time? Do you often feel miserable or depressed? Do you often get worried about things? Do you often get into a violent rage? Do you often suddenly become scared for no reason? Are you easily upset or irritated? Are you constantly keyed up and jittery? Does every little thing get on your nerves? Does your heart often race like mad?

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Mental Health measure	NCDS 58	BCS 70	NS 89	MCS 01	
BSAG	7, 11				
Conn		10, 16			
RUT	7, 11, 16, 16	5, 10, 16			
CDS		10			
SDQ				3, 5, 7, 7, 11, 11, 14, 17, 17	
MFQ				14	
MAL	23, 33, 42, 50	16, 26, 30, 34, 42, 46			
K4/K6		34		17	
GHQ-12	42	16, 30	15, 17, 25		
SF-36	50	46			
WEMWEBS	50	42, 46		17	
CENTRE FOR LONGITUDINAL STUDIES Parent, teacher and self-report					

## COVID-19 sweeps: All Cohorts

- Patient Health Questionnaire-2 (PHQ-2):
- Over the <u>last 2 weeks</u>, how often have you been bothered by the following problems?
  Little interest or pleasure in doing things

Feeling down, depressed or hopeless

- Generalised-Anxiety Disorder (GAD-2)
- Over the <u>last 2 weeks</u>, how often have you been bothered by the following problems?

Feeling nervous, anxious or on edge

Not being able to stop or control worrying

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## Family and Relationships

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# Family and relationships

- Who is in the household
- Relationship to cohort member
- Age /number of siblings
- Biological, step, adoptive parents
- Age of parents when the cohort member was born
- Fertility intentions
- Pregnancy history
- Partnership formation, cohabitation, marriage, divorce, dissolution, formation

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## Education, ability and cognitive measures

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Education measure	NCDS 58	BCS 70	NS 89	MCS 01
<u>School</u>				
Key stage 1				NPD
Key stage 2			NPD	NPD
Key stage 3			NPD	
GCSE or equivalent (subject and grades) (KS4)	23, 42	32	NPD & self report	NPD & self report
A level or equivalent (KS5)	23, 42	26, 32, 34, 42	NPD & self report	NPD & self report
Study intentions	16	16	14, 15, 16, 17	11, 14
<b>Further education</b>			Individualised Learning Record	
Higher education				
Degree subject	42, 46	38, 42	20, 25	17
University type	23,33	42	20, 25	17
Degree grade	42	38	20, 25	-

# Cognitive ability in childhood

- Bracken school readiness (BSRA-R)
- British Ability Scales: verbal similarities, word definitions, matrices, recall of digits, pattern construction, picture similarities, naming vocabulary, word reading
- General Ability Test (GAT)
- Cambridge Neuropsychological Test Automated Battery (CANTAB): Decision making, Working memory
- National Foundation for Education Research (NFER): maths tests, reading comprehension
- Applied Psychology Unit (APU): Vocab test, Maths test
- Number Analogies (GL Assessment)

 Schonell Reading Test; Southgate Group Reading Test; Edinburgh Reading Test;
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Copying Designs Test; Human Figure Drawing; Complete a Profile Test

(Main) cognitive ability/skill	NCDS 58	BCS 70	NS 89	MCS 01
Developmental milestones		22 months*, 42 months*		9 months
School readiness (BSRA-R)				3
Verbal reasoning	11	10		11
Non-verbal reasoning	11	10,16		5
Verbal skills (i.e. reading, comprehension, vocabulary, literacy)	7,11,16,37*	5,10,16,21*,34,42		3,5,7,14
Mathematics and numeracy	7,11,16,37*	10,16,21*,34		7,17
Visual/spatial processing	7	5		5,7
Decision making				11,14
Memory (short-term, long-term, spatial working)	50	10,46		11
Processing speed	50	46		

\* sub-sample



## Earnings and income

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Earnings and Income	NCDS 58	BCS 70	NS 89	MCS 01
Earnings from work (CM and parents)	7, 11, 16, 23, 33, 42, 46, 50, 55	5, 10, 16, 26, 30, 34, 38, 42, 46	14, 15, 16, 20, 25	3, 7, 11, 14, 17
Income (investments, income support, benefits, etc.)	16, 33, 42, 46, 50, 55	10, 16, 30, 34, 38, 42	25	3, 7, 11, 14, 17
Occupation	11, 33, 42, 46, 50, 55	10, 30, 34, 38, 42, 46	25	3, 7, 11, 14, 17
Social mobility (generational analysis)	✓	✓	✓	✓
Wealth (actual): Housing Financial	55	42	-	11,14
<ul><li>Savings</li><li>Debt</li></ul>	23,33,50 -	34, 42, 46 42, 46	- 25	7,11,14 7,11,14



#### How to search these resources

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## **SEARCH Closer Discovery**



## Alternative methods for searching

- Or questionnaires (UK Data Service or <u>CLS website</u>: Our Studies; Sweeps; Documentation; Questionnaires)
- Or download the actual datasets and search the variables (<u>UK Data</u> <u>Service</u>)
- Descriptions of variables in published papers


## **Training resources**

#### More detailed picture of the contents by scientific theme & events:

#### https://cls.ucl.ac.uk/data-access-training/training-and-support-2/

On this page: 1. Getting started 2. The cohorts in focus 3. Enhanced data in focus 4. Themes in focus

4. Themes in focus

These videos look in detail at particular themes that can be researched using the CLS cohorts.

HOME ABOUT NEWS EVENTS CONTACT

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# Mental health in four British cohort studies: measurement, research and access

(2023, 44 minutes)



This short webinar explores the wide-ranging opportunities for mental health research using British cohort studies.



#### Events

#### Register for upcoming events, discover previous events and download materials.

On this page you can find out what events we have coming up and book your place.

• To hear about future training, please sign up to our events mailing list.

#### Past webinars and training events

- Selected webinars including our introductions to all four cohort studies can be found on the Training and support page.
- You can also find our COVID-19 online training sessions on the COVID-19 survey page.

#### Search our events

# Additional sources of information

#### **Physical health**

- Fluharty, M., Villadsen, A., Kandola, A., Griffiths, L., O'Neill, D., Pinto Pereira, S., Timpson, N., Cooper, R., Bann, D.(2020). Physical activity across age and study: a guide to data in six CLOSER studies. London, UK: CLOSER.
- <u>Rajatileka S, Groom A, Ring S. Harmonisation of strategies for exploitation of biological sample collections. London, UK:</u> <u>CLOSER; 2017.</u>
- Ruiz M, Benzeval M, Kumari M. A guide to biomarker data in the CLOSER studies: A catalogue across the cohort and longitudinal studies. London, UK: CLOSER; 2017.
- <u>Maddock, J., O'Neill, D., Robinson, S., Crozier, S., Jameson, K., Dodgeon, B., Suderman, M., Emmett, P., Gush, K.,</u> <u>Burton, J., Payne, J., Kumari, M., & Hardy, R. (2020). A guide to the dietary data in eight CLOSER studies. London, UK:</u> <u>CLOSER.</u>

#### **Mental Health and Wellbeing**

 McElroy, E., Villadsen, A., Patalay, P., Goodman, A., Richards, M., Northstone, K., Fearon, P., Tibber, M., Gondek, D., & Ploubidis, G.B. (2020). Harmonisation and Measurement Properties of Mental Health Measures in Six British Cohorts. London, UK: CLOSER.

#### **Cognitive ability**

CENTRE FOR LONGITUGNIton, V., McElroy, E., Richards, M., Fitzsimons, E., Northstone, K., Conti, G., Ploubidis, G.B., Sullivan, A., O'Neill, D. STUDIE (2020). A guide to the cognitive measures in five British birth cohort studies. London, UK: CLOSER.



## Next ....

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Economic and Social Research Council



# Examples of the types of analyses that can be undertaken using CLS cohort data

#### Richard Silverwood Associate Professor of Statistics & CLS Chief Statistician

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Economic and Social Research Council



- 1. Simple analyses
- 2. Confounder control
- 3. Repeated measures
- 4. Cross-cohort analysis



# Simple analyses

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- The cohorts provide rich data collected on cohort members over many years/decades, so complex analyses possible.
- But let's start with some simple examples...





Chaturvedi, Alun Hughes, George B. Ploubidis and Richard J. Silverwood



#### What is the prevalence of testconfirmed COVID-19 in each cohort?

COVIDTEST Have you been tested for Coronavirus?

Yes

No

COVIDRESULT What was the result of your coronavirus test? If you had more than one test please report the findings of the latest test.

- O Positive it showed I had coronavirus
- Negative it showed I did not have coronavirus
- Inconclusive
- Waiting for results

 Table 1 – Percentages of respondents that had tested

 positive for SARS-CoV-2 by cohort

Cohort	n	Ν	Percent	95% CI
MCS	8	2609	0.3	0.1, 0.8
NS	10	1876	0.6	0.3, 1.1
BCS70	28	4132	0.7	0.5, 1.0
NCDS	15	5119	0.3	0.2, 0.5
NSHD	1	1170	0.1	0.0, 0.5

n – number reporting a positive test; N – total sample size



#### What is the prevalence of selfreported COVID-19 in each cohort?

COVID19 Do you thi	nk that you have or have had Coronavirus?
0	Yes, confirmed by a positive test
0	Yes, based on strong personal suspicion or medical advice
0	Unsure
0	No





Does the prevalence of self-reported COVID-19 differ between males and females in each cohort?

Cohort	Male/female	N (total)	N (C-19) (%)	<b>Risk ratio</b>	95% CI
MCS	Male	770	38 (4.9)	1.00	(ref)
	Female	1,839	120 (6.5)	1.45	0.92, 2.27
Next Steps	Male	643	82 (12.8)	1.00	(ref)
	Female	1,233	115 (9.3)	0.68	0.44, 1.06
BCS70	Male	1,711	160 (9.4)	1.00	(ref)
	Female	2,420	219 (9.0)	1.00	0.71, 1.41
NCDS	Male	2,432	137 (5.6)	1.00	(ref)
	Female	2,686	159 (5.9)	1.17	0.83, 1.66



# Confounder control

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#### Confounder control



- If we want an estimated association between an independent variable and a dependent variable to have any causal interpretation, we need to consider confounder control.
- **Confounder**: A variable that causes non-causal (spurious) association between an independent variable and a dependent variable.





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## Confounder control



- If we want an estimated association between an independent variable and a dependent variable to have any causal interpretation, we need to consider confounder control.
- **Confounder**: A variable that causes non-causal (spurious) association between an independent variable and a dependent variable.
- Thankfully, the rich data collected on cohort members over many years/decades provide great opportunity for confounder control.













#### Early-life mental health (age 7-16)

Rutter Child Scale A at ages 7 and 11 (mothers) and at age 16 (teachers):

- Conduct problems
- Affective symptoms





#### **Biomarkers in midlife (age 44-45)**

- Fibrinogen
- C-reactive protein
- Glycated haemoglobin
- High-density lipoprotein
- Low-density lipoprotein
- High blood pressure

Early-life mental health (age 7-16) ? Biomarkers in midlife (age 44-45)







































Confounder control: Key message

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• The rich data collected on cohort members over many years/decades provide great opportunity for confounder control.



# **Repeated measures**

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#### **Repeated measures**



- Long-running cohorts measuring consistent topics over time provide repeated measures of the same measurement/construct.
- Examples:

- Physical measurements
- General physical health, mental health, specific diseases/conditions, health behaviours
- Relationships, marital status, household composition
- Employment status, occupation, earnings and income
- Allows you to characterise *changes* or *trajectories* over time.

#### Repeated measures: Example



Research

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#### JAMA Dermatology | Original Investigation

#### Patterns of Atopic Eczema Disease Activity From Birth Through Midlife in 2 British Birth Cohorts

Katrina Abuabara, MD, MA, MSCE; Morgan Ye, MPH; David J. Margolis, MD, PhD; Charles E. McCulloch, PhD; Amy R. Mulick, MSc; Richard J. Silverwood, PhD; Alice Sullivan, PhD; Hywel C. Williams, DSc; Sinéad M. Langan, PhD

**IMPORTANCE** Atopic eczema is characterized by a heterogenous waxing and waning course, with variable age of onset and persistence of symptoms. Distinct patterns of disease activity such as early-onset/resolving and persistent disease have been identified throughout childhood; little is known about patterns into adulthood.

**OBJECTIVE** This study aimed to identify subtypes of atopic eczema based on patterns of disease activity through mid-adulthood, to examine whether early life risk factors and participant characteristics are associated with these subtypes, and to determine whether subtypes are associated with other atopic diseases and general health in mid-adulthood.

**DESIGN, SETTING, AND PARTICIPANTS** This study evaluated members of 2 population-based birth cohorts, the 1958 National Childhood Development Study (NCDS) and the 1970 British Cohort Study (BCS70). Participant data were collected over the period between 1958 and 2016. Data were analyzed over the period between 2018 and 2020.

Supplemental content

Repeated measures: Example



- Aimed to identify subtypes of eczema based on patterns of disease activity in NCDS and BCS70.
- Parent-reported or self-reported eczema period prevalence available from standardised questions at ages 7, 11, 16, 23, 42 and 50 in NCDS and ages 5, 10, 16, 26, 30, 34, 38, 42 and 46 in BCS70.
- Then examined whether:
  - o early life risk factors associated with eczema subtypes
  - eczema subtypes associated with other atopic diseases and general health in mid-adulthood
### Repeated measures: Example



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Repeated measures: Key message



- British cohort studies provide repeated observations of the same measurement/construct.
- Allows you to characterise changes or trajectories over time.



# **Cross-cohort analysis**

**Cross-cohort analysis** 

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- Conducting analyses across multiple cohorts allows us to extend our hypotheses: how do things change over time or between cohorts?
- Ideally want to analyse *identical* measures across cohorts.
- In absence of this, need consider how measures can best be *harmonised*.
- COVID-19 surveys offer great opportunity for cross-cohort analysis as most questions identical.

Socioeconomic inequalities in childhood and adolescent body-mass index, weight, and height from 1953 to 2015: an analysis of four longitudinal, observational, British birth cohort studies

David Bann, William Johnson, Leah Li, Diana Kuh, Rebecca Hardy

#### Summary

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Background Socioeconomic inequalities in childhood body-mass index (BMI) have been documented in high-income countries; however, uncertainty exists with regard to how they have changed over time, how inequalities in the composite parts (ie, weight and height) of BMI have changed, and whether inequalities differ in magnitude across the outcome distribution. Therefore, we aimed to investigate how socioeconomic inequalities in childhood and adolescent weight, height, and BMI have changed over time in Britain.

Methods We used data from four British longitudinal, observational, birth cohort studies: the 1946 Medical Research Council National Survey of Health and Development (1946 NSHD), 1958 National Child Development Study (1958 NCDS), 1970 British Cohort Study (1970 BCS), and 2001 Millennium Cohort Study (2001 MCS). BMI (kg/m<sup>2</sup>) was derived in each study from measured weight and height. Childhood socioeconomic position was indicated by the



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#### Lancet Public Health 2018; 3: e194–203

Published Online March 20, 2018 http://dx.doi.org/10.1016/ S2468-2667(18)30045-8

See Editorial page e153

See Comment page e160

Centre for Longitudinal Studies, University College London (UCL) Institute of

### Cross-cohort analysis: Example



- Investigated how socioeconomic inequalities in childhood and adolescent weight, height, and BMI have changed over time.
- Used data from NSHD (BMI at ages 7, 11 and 15), NCDS (7, 11 and 16), BCS70 (10 and 16) and MCS (7, 11 and 14).
- Childhood socioeconomic position indicated by father's occupational social class reported at age 10-11.
- Examined associations between childhood socioeconomic position and BMI to assess socioeconomic inequalities.
- Examined whether inequalities widened or narrowed from childhood to adolescence.

Cross-cohort analysis: Example



### Cross-cohort analysis: Example



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Cross-cohort analysis: Key message

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 Conducting analyses across multiple cohorts allows us to extend our hypotheses: how do things change over time or between cohorts?

 Bann D, et al. <u>Investigating change across time in</u> prevalence or association using observational data: guidance on utility, methodology, and interpretation. Discover Social Science and Health. 2022; 2: 18.

### CLS bibliography

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# <sup>±</sup>UCL

### Bibliography

#### What is the bibliography?

The CLS bibliography is a searchable database of over 5,000 publications based on data from the 1958, 1970 and Millennium birth cohort studies, and more recently the Next. Steps cohort study. It's a useful resource for finding out what's already been published on certain subjects, and for building reading lists for literature reviews and courses.

CLS relies on researchers to let us know when they have published research using the cohort datasets. If you have a publication to contribute to the bibliography, please contact us at clsteedback@ucl ac uk

#### Tips for searching

The database is searchable by year, study (NCDS, BCS70, MCS or Next Steps), author and journal title. You can also search by keywords or phrases in the title or abstract. If your search contains a hyphen or a dash, try a shorter version of it that misses out that character.

Note: CLS is currently updating the bibliography with publications based on Next Steps data, starting with 2015-2018 publications and working backwards. We will keep this note updated with progress.

Search Year:	From		То	~	Study:	~
luthor		iournal:		Title/Abstract	÷	
		ep Journal		Tille/ADSI/BO	L.	
Search	Clear					

https://www.bibliography. cls.ucl.ac.uk

### CLS bibliography

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# Thank you.

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# Getting started with the data

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### This section

- Available resources
- Accessing the data
- Key ID's and other data protocols
- Merging data within and across sweeps
- Study design and sample weights
- Non-response and attrition
- Where to go for more information

### Available resources <u>https://cls.ucl.ac.uk/</u>

- User guides
  - Overview of measures
  - Response and weights
- Questionnaires
  - Exact question wording
  - Questionnaire routing
  - Variable names
- Data documentation
  - Data notes
  - Coding frames
  - Variables lists, including derived variables
- Technical reports
  - Sample and questionnaire design, development
  - Fieldwork, response, ethics
  - Coding, editing
- Data dictionaries
- Cohort profiles e.g.

**≜UC** Our studies Our research Publications and resources Data access and training • Home Publications and resources Search the complete documentation from each of our fou studies. You can also explore our extensive library of working papers, briefings, impact documents and videos. Publications and resources Bibliography Our bibliography is an excellent resource for finding publications based on data from our four studies. It incl publications and is searchable by study, year, author, journal, title and abstract Data documentation Here you will find all the documentation for our four studies. This includes survey question showcards, technical reports, survey reports, and derived variables. Guide to the documentation Here you can find out more about the different types of documents we publish on our website for each of our studie Briefings and impac Our briefings and impact library includes summaries of our research findings as well as reports highlighting the

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CLS working papers
Over working papers
Over working papers
over sevels heateners research based on our four cohort studies and dates back to 1983. Topics arrays from social
inequalities and multily, to physical heath and cognitive development. Other papers in the series seek to improve the practice of
longitudinal research.

https://cls.ucl.ac.uk/publications-and-resources/

- Sullivan A, Brown M, Hamer M, and Ploubidis GB (2022) Cohort Profile Update: The 1970 British Cohort Study (BCS70), International Journal of Epidemiology, dyac148
- Joshi, H and Fitzsimons, E (2016) The Millennium Cohort Study: the making of a multi-purpose resource for social science and policy. Longitudinal and Life Course Studies, 7(4), 409-430.
- Previous journal publications

### Resources available: UK Data Service

Millennium Coho	ort Study:	Seventh Survey, 2018						
Details Documentatio	n Resources		Access data					
Documentation								
Title		File name $\Leftrightarrow$	Size (MB)					
Information about the MCS Data Dictionary	Longitudinal	mcs longitudinal data dictionary 2021-02- 03.xlsx	1.35					
MCS Data Handling Guide v STATA and SPSS, August 20	vith syntax in R, 20	mcs data handling guide ed1 2020-08-1 0.pdf	1.2					
MCS7 Derived Variables Us Edition, December 2020	er Guide, 2nd	mcs7 dv user guide age17 ed2 2020 12 08.pdf	0.4					
MCS7 Parent Online (CAWI) Questionnaire		<u>mcs7-parent-online-cawi-questionnaire.pd</u> <u>f</u>	1.11					
MCS7 Technical Report		mcs7 technical report.pdf	1.65					
MCS7 User Guide, 2nd Editi 2020	on, December	mcs7 user guide age17 ed2 2020 12 08. pdf	1.03					
MCS7 Young Person Intervi	ew	mcs7-young-person-interview.pdf	1.18					
MCS7 Young Person Online Questionnaire	(CAWI)	mcs7-young-person-online-cawi-questionn aire.pdf	0.93					
MCS7 Young Person Self-co Questionnaire	mpletion	mcs7-young-person-self-completion-questi onnaire.pdf	0.95					
UK Data Archive Citation Fil 8682	e for Study	UKDA Study 8682 Information.htm	0					
UK Data Archive Data Dictio	onaries	ukda data dictionaries.zip	0.1					
UK Data Archive ReadMe Fi 8682	le for Study	read8682.htm	0					

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Details Documentation Resource	5	Access data		
Documentation				
Title	File name	Size (MB)		
1970 British Cohort Study - Age 46 Derived Variables User Guide	<u>bcs70 age 46 derived variables user g</u> <u>e.pdf</u>	<u>uid</u> 0.3		
1970 British Cohort Study - Age 46 Survey User Guide	bcs70 age 46 survey user guide.pdf	0.48		
1971 British Cohort Study - Variable Lookup Table	bcs 2016 variable lookup table.xlsx	0.11		Access data
UK Data Archive Citation File for Study 8547	UKDA Study 8547 Information.htm	0		
UK Data Archive Data Dictionaries	<u>ukda data dictionaries.zip</u>	0.15	e name 👙	Size (MB)
UK Data Archive ReadMe File for Study 8547	read8547.htm	0	vid-19_w1-3_variable_lookup.xlsx	0.05
		Technical Report	cohorts_covid-19_survey_technical _report.pdf	0.86
		UCL Cohorts: COVID-19 Survey User Guide	ucl_cohorts_covid-19_survey_user_guid e.pdf	1.26
		UCL Cohorts: COVID-19 Wave 1 Survey Questionnaire	covid-19_online_survey_guestionnaire_ wave_1_april_2020.pdf	0.49
		UCL Cohorts: COVID-19 Wave 2 Survey Questionnaire	covid-19_online_survey_guestionnaire_ wave_2_september_2020.pdf	0.62
		UCL Cohorts: COVID-19 Wave 3 Survey Questionnaire	covid-19 online survey questionnaire wave_3_february_2021.pdf	0.95
		UK Data Archive Citation File for Study 8658	UKDA_Study_8658_Information.htm	0
		UK Data Archive Data Dictionaries	ukda_data_dictionaries.zip	0.23
		UK Data Archive ReadMe File for Study 8658	read8658.htm	0

# Data <u>freely</u> available to researchers, government analysts and third sector

And most research data is accessed via the UK Data Service



**UK Data Service** 



#### ukdataservice.ac.uk

# Access to different types of data at the UKDS

Access to data held by the UK Data Service varies depending on how the data is classified:

<u>Safeguarded data available under End User Licence</u> (EUL): data with a low level of sensitivity and disclosivity.

- Most of our data are available under this licence.
- Your application is authorised directly by the UK Data Service, and you can download the data directly from there.

<u>Special safeguarded data available under Special Licence</u> (SL): access to moderately sensitive or disclosive data. Access through the UK Data Service and application approved by CLS before you can download the data.

<u>Controlled data available under Secure Access Licence</u> (SA) for access to the most sensitive and/or potentially disclosive data. Access through the UK Data Service and attend a specialised training course. CLS approval and access via UK Data Service SecureLab

For details on specialist linked administrative data, genetic data and more information on data access please visit: <a href="https://cls.ucl.ac.uk/data-access-training/data-access/">https://cls.ucl.ac.uk/data-access-training/data-access/</a>

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# Registering with the UK Data Service



#### 1. Click 'Login'

2. On the Login page begin typing your organisation name. Select the organisation required

#### 3. Click 'Continue'

4. Your own organisation login page will then be displayed. Login with your usual username and password

5. Complete the registration form with your details, selecting other options as required

6. Agree to the End User Licence (EUL), which outlines the terms and conditions of use of the Service

7. Click 'Register'.

Once registration is complete you will be able to download/order or request access to data

OKL	Data Service						Search the	site		① Login
ind data	Deposit data	Learning Hub	Training and events			About	News	Impact	Help	Contact
ogin										
lf you are a below:	t a UK college or u	niversity, it's likely	you can sign-in using you	ır username/passwo	rd for your college	or university. S	Start typing	g your organ	iisation na	ame
You prev	iously selected: <u>U(</u>	<u>CL (University Colle</u>	<u>ge London)</u>							
Start typi	ng the name of yo	ur organisation								•
			<b>Continue</b> : you will be red	irected to your orga	nisation's website t	o sign-in				
My orga	nisation is not liste	ed.								

### Accessing CLS cohort data I

Cohort	Link
NCDS	http://discover.ukdataservice.ac.uk/series/?sn=2000032
BCS70	http://discover.ukdataservice.ac.uk/series/?sn=200001
Next Steps	http://discover.ukdataservice.ac.uk/series/?sn=2000030
MCS	http://discover.ukdataservice.ac.uk/series/?sn=2000031



The Millennium Cohort Study (MCS), which began in 2000, is conducted by the Centre for Longitudinal Studies (CLS). It aims to chart the conditions of social, economic and health advantages and disadvantages facing children born at the start of the 21st century The study has been tracking the 'Millennium children' through their early childhood years and plans to follow them into adulthood. It also provides a basis for comparing patterns of development with the preceding cohort studies (the National Child Development Study (NCDS) and the 1970 Birth Cohort Study (BCS70).

Abstra	ct FAQ's Resources		Access data
ccess o	data		
N 33359			
lillenniu	m Cohort Study – Survey and Biomeasures Data		
SN	Study description	Explore online	Select
8756	Millennium Cohort Study, Sweeps 1-7, 2001-2019: Exact Participation Dates: Secure Access		
8755	Millennium Cohort Study, Sweeps 1-7, 2001-2019: Demographics, Language and Religion: Secure Access		
8754	Millennium Cohort Study, Sweeps 1-7, 2001-2019; Self-Reported Health, Behaviour and Fertility; Secure Access		
8753	Millennium Cohort Study, Sweeps 1-7, 2001-2019: Socio- Economic, Accommodation and Occupational Data: Secure Access		
8682	Millennium Cohort Study: Seventh Survey, 2018		
8172	Millennium Cohort Study: Longitudinal Family File, 2001-2018		
8156	Millennium Cohort Study: Sixth Survey, 2015		
7464	Millennium Cohort Study: Fifth Survey, 2012		
7261	Millennium Cohort Study: First Survey, Health Visitor Survey, 2002-2003		
7238	Millennium Cohort Study: Fourth Survey, Physical Activity Data, 2008		
6411	Millennium Cohort Study: Fourth Survey, 2008		
5795	Millennium Cohort Study: Third Survey, 2006		
5559	Millennium Cohort Study: Survey of Mothers who Received Assisted Fertility Treatment, 2003		
5350	Millennium Cohort Study: Second Survey, 2003-2005		
4683	Millennium Cohort Study: First Survey, 2001-2003		

# Accessing CLS cohort data II

ssign dataset to	a project		
efore you can dowr roject for it. Once a:	nload a data ssigned, yo	aset or request access, you must assign it to one of your projec u can access datasets via the Projects section.	ts or create a new
waiting assignm	ent to pro	ojects	Select all datasets
SN	\$	Dataset	A
3172		Millennium Cohort Study: Longitudinal Family File, 2001-2018	3 🗆

Title: *	UK Data Service				
	235 characters remainin				
Project type: *	Non-commercial -				
Abstract: *	Project created for demonstration purposes to show the process of creating new projects and downloading datasets.				
	Please include a short description of the project and its benefits (100				

Before downloading the data:

- Click on Request Access
- Click on Complete actions
- Agree to standard 'End User Licence'

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Read and agree extra conditions

Choose data format and download zip file

- SPSS
- STATA
- TAB (tab-delimited)

### Files: Datasets

Name	Contents	Structure	Identifier
NS8_2015_Main_Interview	Modules 1 to 7	Flat	NSID
NS8_2015_Self_Completion	Module 8	Flat	NSID
NS8_2015_Partnerships	Relationship histories	Hierarchical	NSID, W8RELID
NS8_2015_Children	Details of children of CM	Hierarchical	NSID, W8CHID
NS8_2015_Household_Members	Details of members living in same household as CM	Hierarchical	NSID, W8HHMID
NS8_2015_Activity_History	Activities and Employment histories	Hierarchical	NSID, W8HISTID
NS8_2015_Benefits	Details of individual benefits received	Hierarchical	NSID, W8BENID
NS8_2015_Income_Unfolding_brackets	Unfolding brackets questions for payments and income	Flat	NSID
NS8_2015_Benefits_Unfolding_brackets	Unfolding brackets questions for benefits	Hierarchical	NSID, W8BENID
NS8_2015_Derived_variables	Derived variables	Flat	NSID

# Key identifiers (ID's)

Cohort	Key cohort identifier	Key cohort member/family identifier format	
NCDS 1958 BCS70 1970	NCDSID	<ul> <li>7 characters:</li> <li>N followed by 5 digits, and a single character</li> <li>e.g. N10016V</li> <li>7 characters:</li> <li>B followed by 5 digits, and a single character</li> <li>e.g. B25819Z</li> </ul>	Cohort member/family identifier: Every cohort member (or for the MCS family) has the same ID across sweeps Use these ID's to link datasets
Next Steps 1989/90	NSID	8 characters: NS followed by 5 digits and a single character e.g. NS21140C	<b>W8xxID</b> used in particular files to denote relationship, child, HH member etc
MCS 2000/02	MCSID	7 characters: M followed by 5 digits, and a single character e.g. M10029A	<b>CNUM</b> Cohort members, 1, 2 (twins) or 3 (triplets) <b>PNUM</b> Person number, for everyone else in the family apart from cohort members: parents, siblings, grandparents, etc

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### File structures: Flat v hierarchical

Type of file structure	Format	Examples in the cohorts
Flat	1 record per case	NCDS, BCS70, Next Steps – main data files MCS – family files
Hierarchical	1 or more records per case	Household files Activities e.g. employment histories Relationship histories Time use diaries MCS - Person within family

BCSID	Sex	Country	Emp
B567689A	1	1	1
B567689A	1	1	3
B567689A	1	1	3
B467921B	2	1	1
B879255C	2	2	5
B879255C	2	2	2
B297614D	1	1	6
B297614D	1	1	1
B349725E	1	3	3

	BCSID	Sex	Country	Emp1	Emp2	Emp3
	B567689A	1	1	1	3	3
CENTRE FOR LONGITUDINAL STUDIES	B467921B	2	1	1		
	B879255C	2	2	5	2	
	B297614D	1	1	6	1	
	B349725E	1	3	3		

### Merging data within and across sweeps

- 1. Identify appropriate files
  - Establish number of cases in target population
- 2. Check file structure: flat v hierarchical
  - Transform if necessary
- 3. Identify merging variables:
  - 1. Unique 'key' cohort ID (member or family)
  - 2. Other ID's depending on merge
    - Check the same variable name (case sensitive, changed across sweep etc)
    - Create identical variable name if necessary
- 4. Check merged correctly

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	Millennium Cohort Study
	Data Handling Guide with syntax in R, STATA and SPSS
veep etc)	August 2020
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### Study design (sampling and sample weights) Studies are representative of...

Cohort	Population	Sample and study design	Design weight(s)			
NCDS 1958	All born in GB in one week	<b>Total sample:</b> Captured 98% of the total births	None			
BCS70 1970	All born in GB in one week	<b>Total sample:</b> Captured 95-98% of the total bir	None			
Next Steps 1989/90	Young people in England in 2004 born between 01/09/89 and 31/8/90	Complex sample design: Maintained schools* 2-stage san Stage 1: Schools Stage 2: Pupils within schools.	psu (SampPSU) strata (SampStratum) _File			
MCS 2000/02	Children born in 2000 /2002 and living in the UK at age nine months,	Complex sample design: Clusters: Areas of residence (ele Disproportionately stratified by a country, and ethnicity in England	Longitudinal Family File			

### Non-response and attrition

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- Distinction between unit (respondents') non-response and item nonresponse
  - Unit non-response (not responding to a particular sweep)
    - Non-response is common in longitudinal surveys
  - Item non-response i.e. not answering some questions
    - tends to be less of an issue in the cohorts
- Missing data may be a risk to representativeness
  - Potential for bias since respondents are often systematically different from nonrespondents



# Dealing with unit non-response

(2023, 190 minutes)

Institute of Education

•••

Handling missing data in the British cohort studies

Handling missing data in the British co

Handling missing data in the British cohort studies

- Case-wise deletior
  - Any individual in variable in the a
  - Straightforward,
- Non-response weig
  - Adjust the same respondents.
  - Provided in MC Steps (W8FINV https://cls.ucl.ac.uk/v https://cls.ucl.ac.uk/v
- Other more advand
  - MI involves the values are replaced by imputed values sampled from distribution given the observed





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# Where to go for more information

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### CLOSER Learning Hub: <a href="https://learning.closer.ac.uk/">https://learning.closer.ac.uk/</a>

CLOSER provides training and resources for students and early-career researchers to *"maximise the use, value and impact of longitudinal research"* 

Learning Hub – demonstration video: <u>https://youtu.be/Z\_bFCClq2Dc</u>

A	Learning modules	Teaching resources	Research case studies	Explore by topic			 Q	Glossary	*
L	earning mo.	dules	Introduction to le Study design Data harmonisat Understanding r Analysing longit Research comm	ongitudinal studies tion netadata udinal data nunication					
	100	100	1/2	1	23	7.03	1		





#### Enhance your data skills and teaching

#### New to using data

Best practice and training for researchers new to accessing and using data in our collection. Includes advice and tools to correctly cite data; student-specific information on our Dissertation Award for undergraduates; and more.

#### Data skills modules

There is a wealth of data available for reuse in research and reports. These free, interactive tutorials are designed for anyone who wants to start using secondary data. They show you how to get started with finding good quality data, understanding it and starting your analyses.

#### <u>Students</u>

Students can access most of the UK Data Service's collection of social, economic and population data. Find resources to help you find and use our data during your studies including the UK Data Service dissertation resources.

#### Survey data

Survey data, including data from longrunning surveys, series and longitudinal studies, are a major part of social science research. Learn how to use survey and longitudinal data through training resources including videos, on-demand webinars and written guides.

#### International data

Our international macrodata contain socioeconomic time series data aggregated to a country or regional level for a range of countries over a substantial time period.

#### <u>Qualitative data</u>

Qualitative research gives a voice to the lived experience, offering researchers a deeper insight into a topic or individuals' experiences. Qualitative data can be combined with quantitative to enhance understanding around a policy or topic in a way that quantitative data by itself often cannot.

### Resources available: CLS website

**STUDIES** 

#### https://cls.ucl.ac.uk/





### CLS training and support

Covid C	CENTRE FOR LONGITUDINAL STUDIES	HOME	ABOUT	NEWS	EVENTS	CONTACT	
COVID-19       Our studies       Our research       Publications and resources       Data accesss and training         Home       Data access and training         Home       Data access and training         Welcome to the CLS training and support page. This page features recordings from past         CLS training events, often with accompanying slides. Please use the menu below to         navigate. If you're looking for recordings of our COVID-19 survey training, please head         to ur separate COVID-19 training page. There are also many more training videos to         explore on our CLS YouTube Channel.         Upcorning training events.         For upcoming training events.         For upcoming training events.         On this page:       1. Getting started       2. The cohorts in focus       3. Enhanced data in focus       4. Themes in focus					16		
Home Data access and training   Home Data access and training <b>Training and support page.</b> This page features recordings from past CLS training and support page. This page features recordings from past CLS training events, often with accompanying sildes. Please use the menu below to navigate. If you're looking for recordings of our COVID-19 survey training, please head to our separate COVID-19 training page. There are also many more training videos to explore on our CLS YouTube Channel.   Upcoming training events.   Dycoming training events, please see our events page. If you would like to hear about future training by email, as well as other CLS news, please sign up to our mailing ist.   On this page: 1. Getting started 2. The cohorts in focus 3. Enhanced data in focus 4. Themes in focus   Training videos on this page	COVID-19 Our studies Our research Publications and resources		Data a	ccess an	d training		
Training and support page. This page features recordings from past         CLS training events, often with accompanying slides. Please use the menu below to         navigate. If you're looking for recordings of our COVID-19 survey training, please head         to our separate COVID-19 training page. There are also many more training videos to         explore on our CLS YouTube Channel.         Upcoming training events.         For upcoming training events, please see our events page. If you would like to hear         about future training by email, as well as other CLS news, please sign up to our mailing         list.         On this page: 1. Getting started 2. The cohorts in focus 3. Enhanced data in focus 4. Themes in focus         Training videos on this page	Home Data access and training						l
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Upcoming training events       A         For upcoming training events, please see our events page. If you would like to hear       about future training by email, as well as other CLS news, please sign up to our mailing list.       A         On this page: 1. Getting started 2. The cohorts in focus 3. Enhanced data in focus 4. Themes in focus       A       A         Training videos on this page       M       A       A	Welcome to the CLS training and support page. This page features recordings from past CLS training events, often with accompanying slides. Please use the menu below to navigate. If you're looking for recordings of our COVID-19 survey training, please head to our separate COVID-19 training page. There are also many more training videos to explore on our CLS YouTube Channel.						li
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	Iraining videos on this page						Ν

Upcoming training events	
Introduction to Longitudinal Data: Structure and Visualisation	21 November 2023 12-2pm
Ageing in the British cohort studies: measurement, research and access	Early Feb 2024
Genetic data: An overview of genetic data in the British cohort studies	Feb/March 2024
Methods: Cross-cohort analyses	May/June 2024

https://cls.ucl.ac.uk/events/

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https://cls.ucl.ac.uk/data-access-training/training-and-support-2/

### So we've covered

- An introduction to birth cohorts
- Some of the content in the CLS cohorts by subject areas

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- Examples of the types of analysis
- Getting started with the data
- Where to go for more information


## Thank you Any questions?

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