



Getting Started: An introduction to four British cohort studies

27 November 2025

Centre for Longitudinal Studies, UCL Social Research Institute

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Today's schedule

Session	Time	Topics covered	Speaker
1.	12.30 – 12.45	Introduction	Prof. Morag Henderson
2.	12.45 – 13.05	Content by 'subject area'	Prof. Morag Henderson
3.	13.05 – 13.25	Overview of the type of analysis	Prof. Richard Silverwood
4.	13.25 – 13.45	Getting started with the data	Prof. Richard Silverwood
5.	13.45 – 14.00	And where to go for more information General Q&A	All

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Birth cohort studies

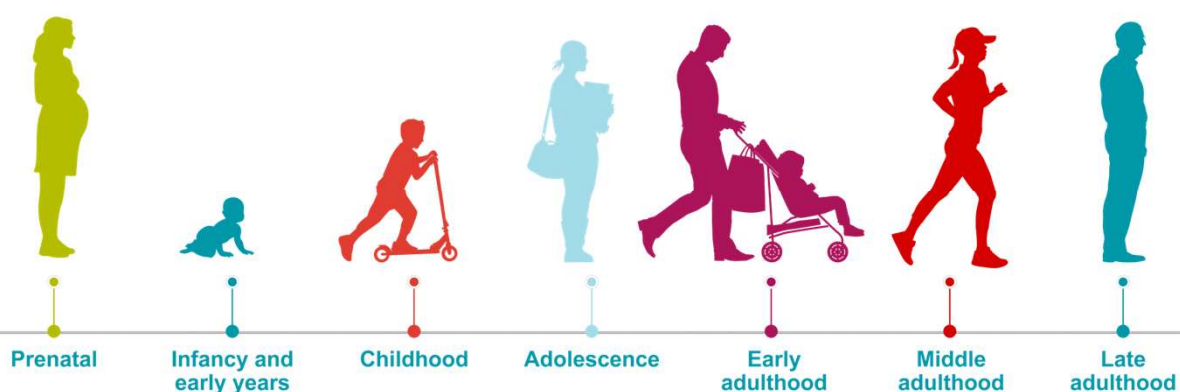
- Cohort studies are a type of *longitudinal study*—an approach that follows participants over a period of time (often many years)
- Participants share a common characteristic, i.e. birth cohorts follow individuals born in a particular period - a day, week, month, year
- It follows these people throughout their lives, and collects information from them at particular ages
- This design allows researchers to observe how early-life factors shape later-life outcomes

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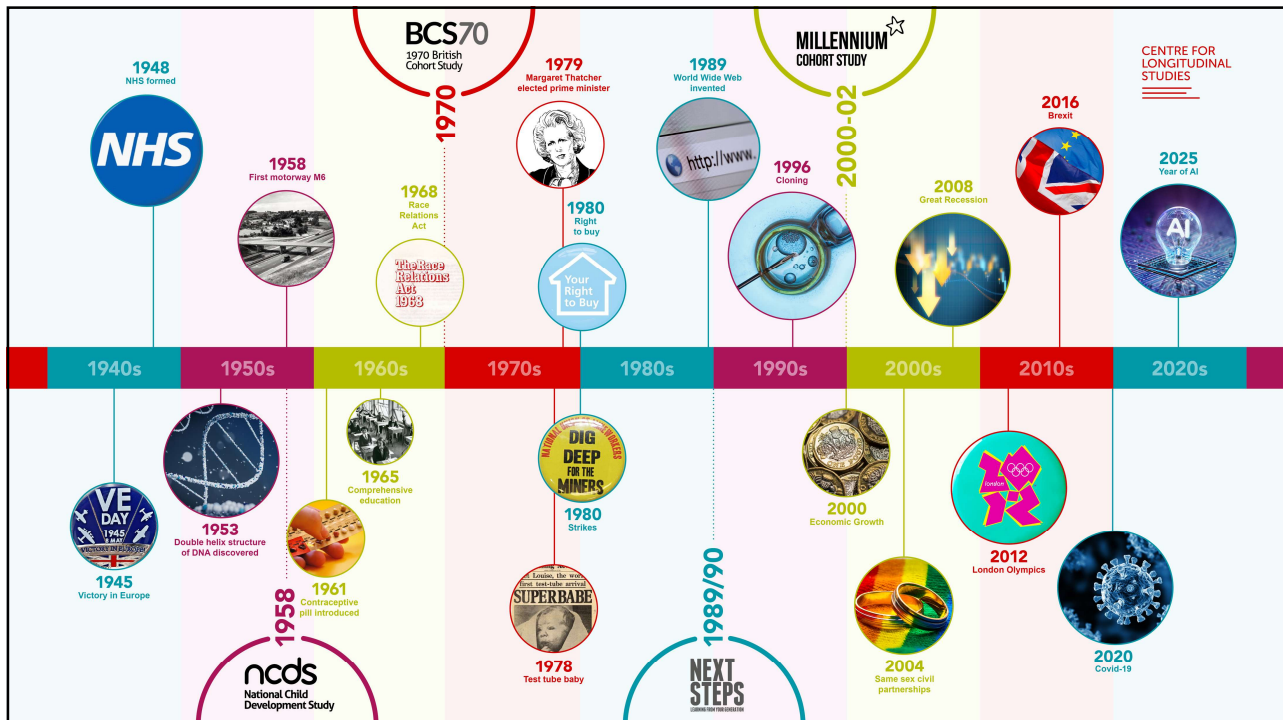
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The life course approach

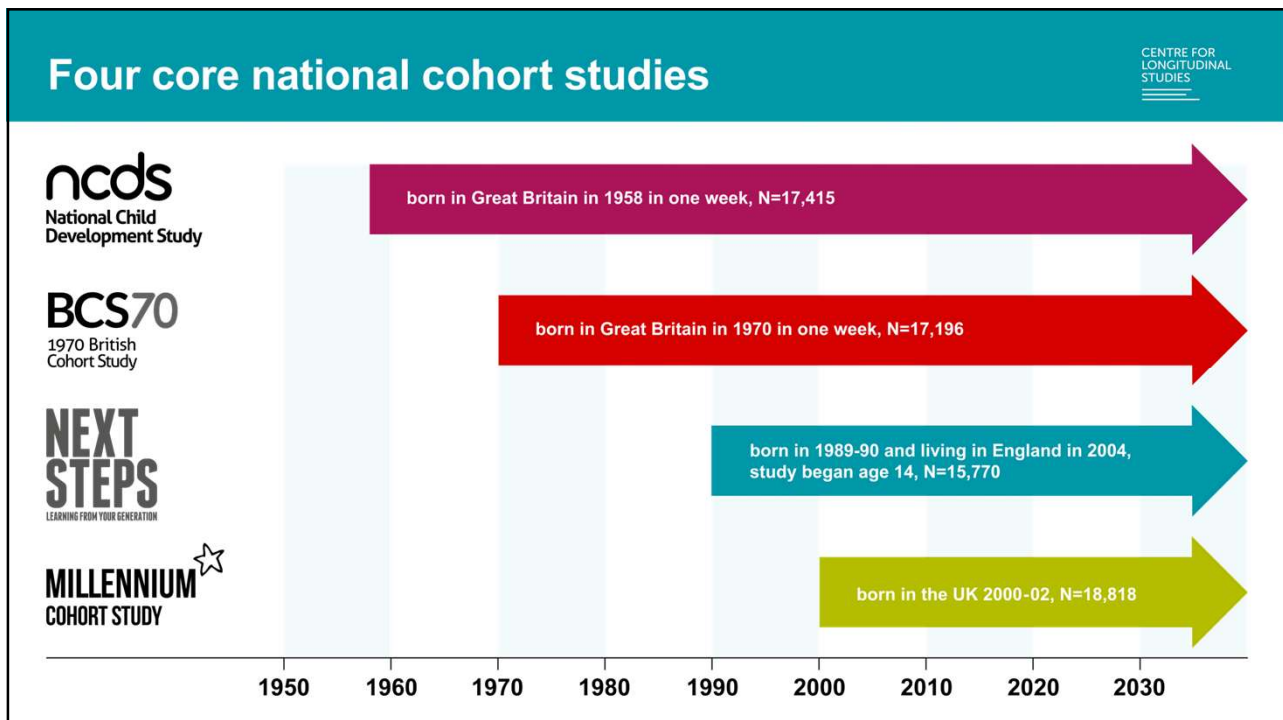
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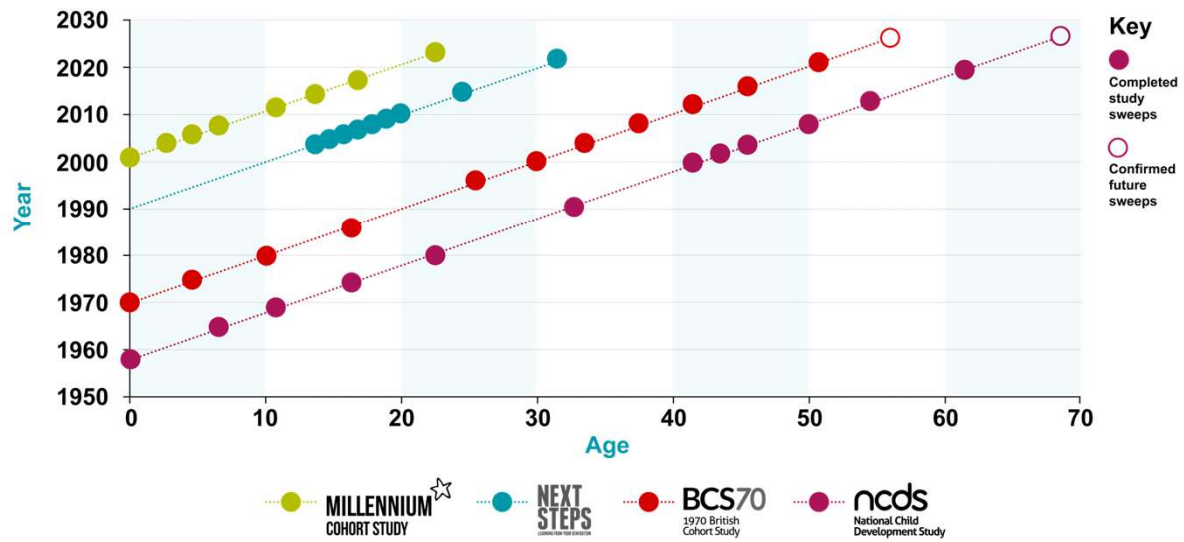
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Study timelines

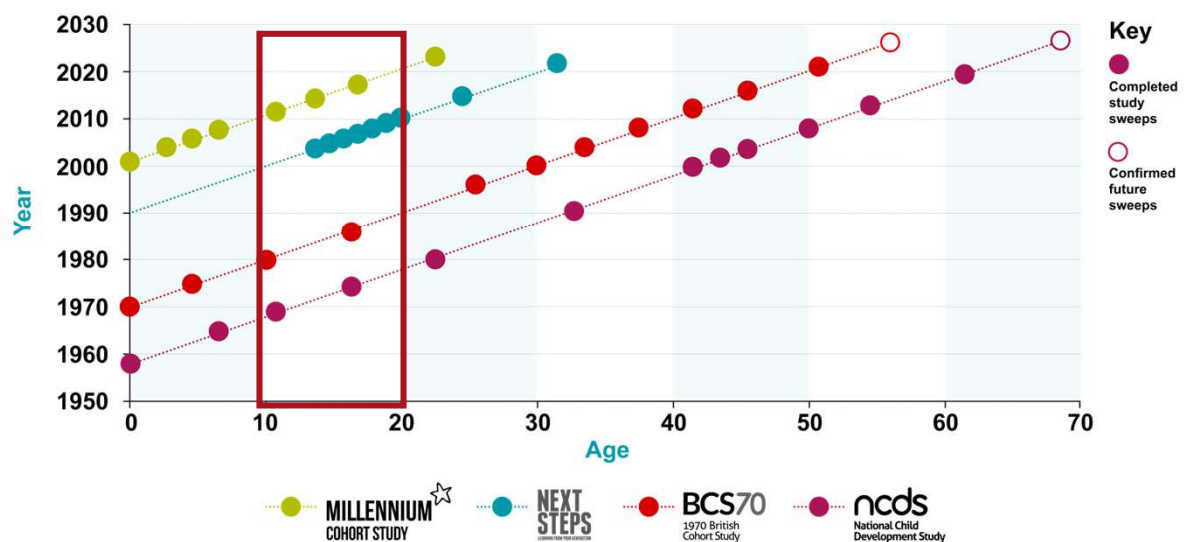
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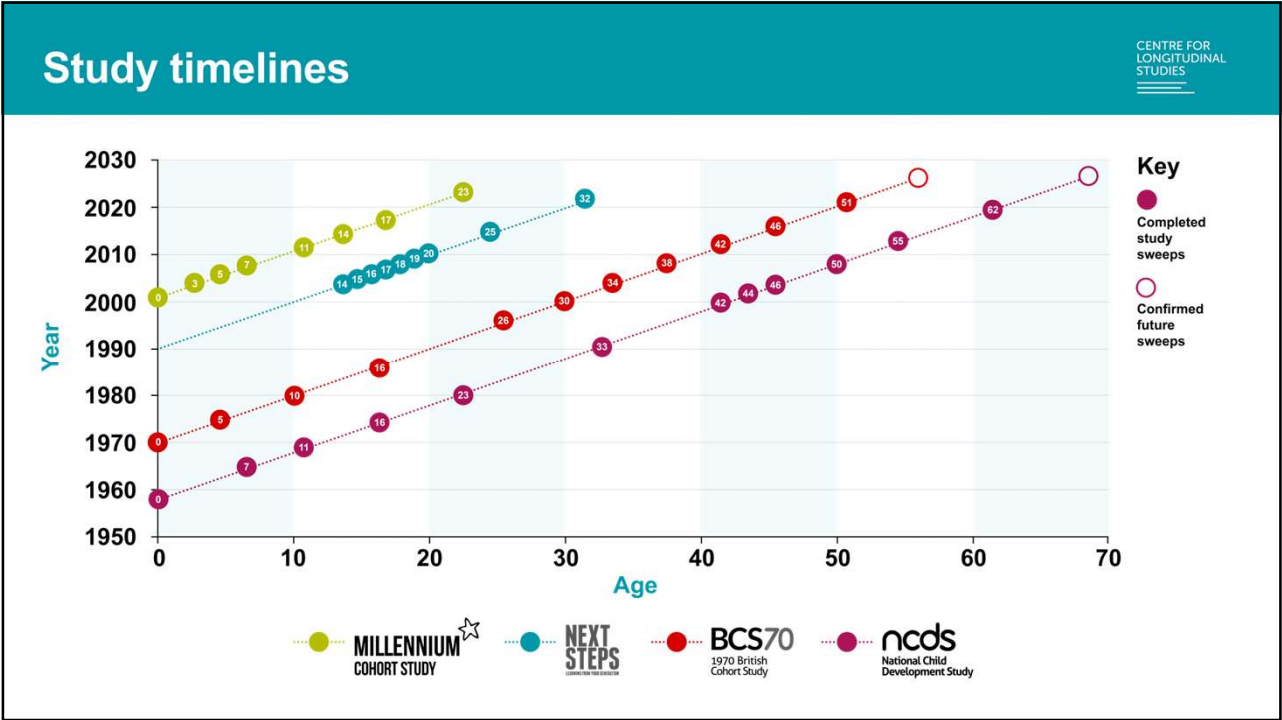
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Study timelines

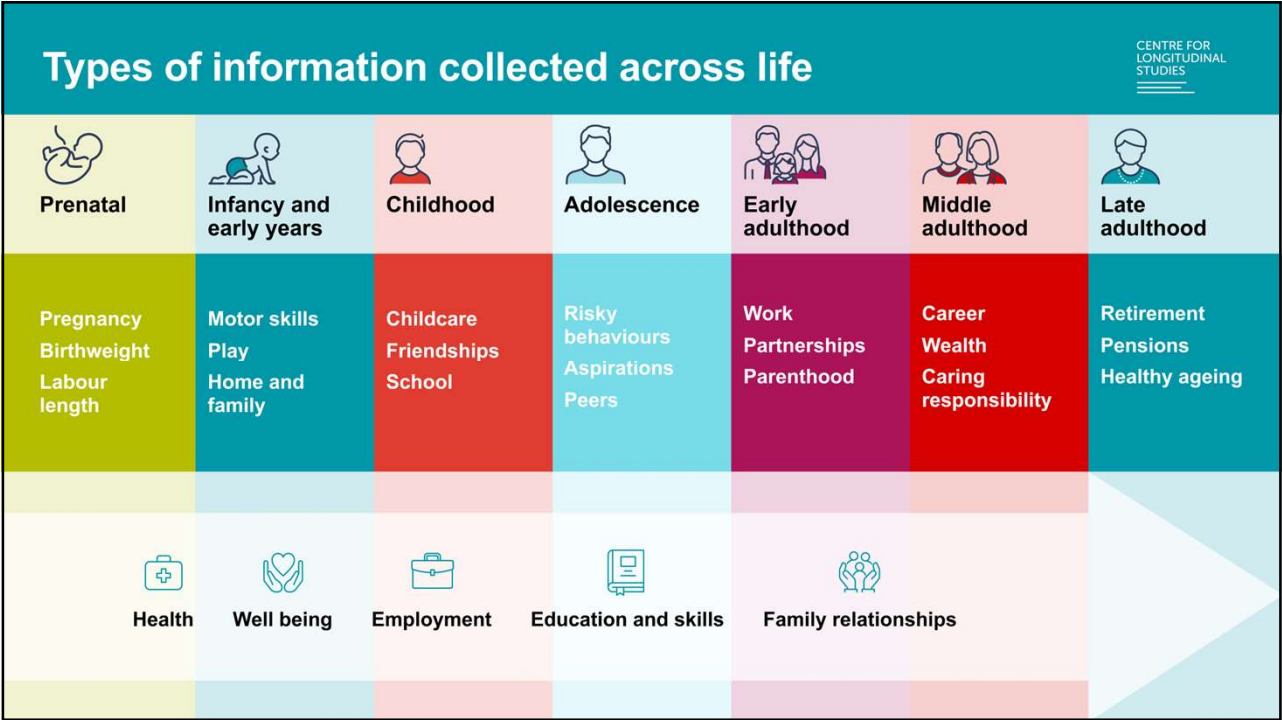
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NCDS A study of everyone born in one week in 1958 (GB)

	1958	1965	1969	1974	1981	1991	2000	2003	2004	2008	2013	2020/3
	Birth	7	11	16	23	33	42	44	46	50	55	62/65
main respondent	mother	parent cohort member	parent cohort member	parent cohort member	cohort member	cohort member	cohort member	cohort member	cohort member	cohort member	cohort member	cohort member
others		school	school	school	exam results [16/18]	children (1 in 3) partner						
health	medical birthweight	medical height/weight conditions illnesses accidents vaccinations	medical height/weight conditions illnesses accidents vaccinations puberty	medical height/weight conditions illnesses accidents vaccinations puberty smoking alcohol	height/weight conditions illnesses accidents smoking alcohol exercise	height/weight conditions illnesses accidents smoking alcohol exercise	height/weight conditions illnesses accidents diet smoking alcohol drugs exercise	biomedical height/weight blood - DNA	conditions illnesses smoking alcohol exercise	height/weight conditions illnesses smoking alcohol exercise	height/weight conditions illnesses smoking alcohol	biomedical height/weight blood - DNA
survey instruments		cognitive mental h.	cognitive mental h. motor coord essays	cognitive mental h. motor coord	mental h.	cognitive [c]* mental h. *c=children	mental h.			cognitive mental h.		cognitive mental h.
linked data				area of residence (census)	area of residence (census)		Linked health data (HES)	Linked health data (HES)	Linked health data (HES)	consent for economic records Linked HES	Linked health data (HES)	consent for health & 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	8,405

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BCS70 A study of everyone born in one week in 1970 (GB)

	1970	1975	1980	1986	1996	2000	2004	2008	2012	2016	2021-24
	Birth	5	10	16	26	30	34	38	42	46	51-53
main respondent	mother	parent cohort member	parent cohort member	parent cohort member	cohort member	cohort member	cohort member	cohort member	cohort member	cohort member	cohort member
others		school	school	school			children (1 in 2)				
health	medical birthweight	medical height/weight conditions illnesses accidents	medical height/weight conditions illnesses accidents	medical height/weight conditions illnesses accidents alcohol smoking drugs motor coord diet	height/weight conditions illnesses accidents alcohol smoking	height/weight conditions illnesses accidents alcohol smoking drugs exercise diet	height/weight conditions illnesses accident alcohol smoking exercise diet	conditions illnesses smoking	height/weight conditions illnesses accidents alcohol smoking exercise	biomedical height/weight conditions illnesses accidents alcohol smoking exercise blood (DNA) accelerometer	height/weight conditions illnesses accidents alcohol smoking exercise
survey instruments		cognitive mental h.	cognitive mental h. dyslexia	cognitive mental h. time use diary diet diary	mental h.	mental h.	cognitive [c]* mental h. dyslexia basic skills *c=children		cognitive mental h.	cognitive mental h.	cognitive mental h.
linked data					HES	HES	HES	HES	HES, consent to health & econ		consent to health & econ
response rate	17,196 16,568* (ex NU)	13,135	14,875	11,622	9,003	11,261	9,665	8,874	9,841	8,851	8,016

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Next Steps A study of people born in 1989/90

	2004 Age 14	2005 Age 15	2006 Age 16	2007 Age 17	2008 Age 18	2009 Age 19	2010 Age 20		2015 Age 25	2022 Age 32
Min respondent	Cohort member	Cohort member	Cohort member	Cohort member	Cohort member	Cohort member	Cohort member		Cohort member	Cohort member
Others	Parents	Parents	Parents	Parents						
Featured measures	Education	Education, quals	Education, quals	Education, subjects studied, quals, jobs & training, NEET	Education, subjects studied, quals, jobs & training, NEET, social attitudes	Education, subjects studied, quals, jobs & training, NEET	Education, subjects studied, quals, jobs & training, NEET, social attitudes		Education, subjects studied, quals, jobs & training,	Education, subjects studied, quals, jobs and training, NEET, social attitudes
Health	Birth weight, illness, smoking, alc, drugs, exercise	Illness, smoking, alcohol, drugs, exercise	Illness, smoking, alcohol, drugs, exercise	Birth weight, illnesses, alcohol, drugs, exercise		Illness, alcohol, drugs, exercise	Illness, alcohol, drugs, exercise		Height, weight, illness, smoking, alcohol, drugs, exercise	Height, weight, illness, sexual health, vaccinations, smoking, alcohol, drugs, exercise, diet, coronavirus
Survey instruments		Mental health, non-cognitive skills		Mental health, non-cognitive skills			Non-cognitive skills		Mental health, alcohol, non-cognitive skills	Cognition, mental health, personality, alcohol, non-cognitive skills, social provision, & genetic data
Linked data	NPD, HES	NPD, HES	NPD, HES	NPD, ILR, HES	HES	HES	HES		HES, Student Loans Co + consents to econ, health, ed	Consents to econ, health, ed.
Sample & RR	15,770 (74%)	13,539 (86%)	12,439 (92%)	11,801 (92%)	10,430 (89%)	9,799 (87%)	8,682 (90%)		7,707 (51%)	7,279 (53%)

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MCS A study of people born between 2000-2002

	2001-03 9 months	2003-05 3	2006 5	2008 7	2012-13 11	2015-16 14	2018-19 17	2023-24 23
main respondent	Parents	Parents / Cohort member	Parents / Cohort member	Parents / Cohort member	Parents / Cohort member	Parents / Cohort member	Parents / Cohort member	Cohort member
others		Older siblings (England)	Teachers, Siblings	Teachers	Teachers		Parents	Parents (Ongoing)
Health	Birth weight	Height, weight, conditions, illnesses, accidents, vaccinations	Height, weight, waist size, conditions, illnesses, accidents, vaccinations	Height, weight, waist size, body fat, conditions, illnesses, accidents, vaccinations	Height, weight, body fat conditions, illnesses, accidents, diet, puberty	Height, weight, body fat, puberty, diet, sleep, conditions, illnesses, vaccinations, alcohol, smoking	Conditions, illnesses, physical activity, puberty, sexual health, alcohol, smoking, drugs	Conditions, illnesses
Survey instruments	Developmental milestones	Cognition and mental health, developmental milestones	Cognition and mental health	Cognition and mental health, activity monitor	Cognition and mental health	Cognition and mental health, time use diaries, accelerometer, genetic data (trios)	Cognition and mental health	Cognition and mental health
linked admin data	Health, Geographical Identifiers, Air Pollution, Green Space, Birth Registration, Maternity Hospital Episodes, Hospital of Birth	Health, Education, Geographical Identifiers, Air Pollution, Green Space	Health, Education, Geographical Identifiers, Air Pollution, Green Space, Distances to Preferred Schools, Air Pollution, School Inspections	Health, Education, Geographical Identifiers, Points of Interest, Air Pollution, School Inspections, Green Space	Health, Education, Geographical Identifiers, Points of Interest, Air Pollution, School Inspections, Green Space, Distances to Grammar Schools	Health, Education, Geographical Identifiers, Points of Interest, Air Pollution, School Inspections, Green Space, Polygenic Indices	Health, Education, Geographical Identifiers, School Inspections	Health, Education, Geographical Identifiers, COVID-19 antibodies
sample	18,818 from 18,552 families	15,808 from 15,590 families	15,460 from 15,246 families	14,043 from 13,857 families	13,469 from 13,287 families	11,872 from 11,726 families	10,757 from 10,625 families	9,645 cohort members

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Other data enhancements in the birth cohorts

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

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Our new studies

[Generation New Era](#) (fieldwork in late 2026)

- Generation New Era is a new UK-wide birth cohort study aiming to follow the lives of 30,000 children born in 2026, and their families.
- The first sweep of data collection will take place when the child is 9-10 months old, beginning in late 2026

[Early Life Cohort Feasibility Study](#) (fieldwork completed in 2023-24)

- ESRC funded study following a cohort of several thousand babies born in the UK in 2022-23
- Data collection took place when babies were 9-12 months. Data available at [UK Data Service](#)

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

- DfE commissioned study following a cohort of babies born in England Sept-Nov 2021 (@ 8,500 families).
- Wave 1 data (nine months) available now from [ONS Secure Research Service](#), Wave 2 (two years) to be deposited soon

[COVID Social Mobility and Opportunities study](#) (fieldwork began in 2021)

- A UKRI funded study following over 13,000 young people (in Year 11 in the academic year 2020-21)
- Wave 1 and Wave 2 data available from the [UK Data Service](#)

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The contents of the cohort studies

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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

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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, 62	5, 10, 16, 34, 42, 46, 51	25, 32	3, 5, 7, 11, 14, 17
BMI, Height, Weight	7, 11, 16, 23, 33, 42, 44, 50, 55, 62	10, 16, 26, 30, 34, 42, 46, 51	25, 32	3, 5, 7, 11, 14, 17
Hospital Episodes Statistics:	England & Scotland ✓	England & Scotland ✓	England ✓	Scotland & Wales ✓
DNA /biomarkers	44 (available), 62	46 (available)	32 (available)	14 (available)
Physical activity (leisure time)	11, 16, 23, 33, 42, 44, 50, 55, 62	5, 10, 16, 34, 42, 46, 51	20, 25, 32	5, 7, 11, 14, 17
Diet related measures (intake, overeating)	7, 33, 42, 44, 62	10, 16, 30, 34, 42, 46, 51	25, 32	9 months, 3, 7, 11, 14, 17
Anthropometry (e.g. blood pressure, body fat, grip strength, vision, motor skills)	7, 11, 16, 44, 62	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, 62	0, 5, 10, 16, 26, 30, 34, 38, 42, 46, 51	14*, 15*, 16*, 17*, 18*, 19*, 20*, 25*, 32	9m, 3, 5, 7, 11, 14, 17
Drugs & alcohol consumption	16, 23, 33, 42, 44, 46, 50, 55, 62	16, 26, 30, 34, 42, 46, 51	14, 15, 16, 17, 18, 19, 20, 25, 32	11, 14, 17

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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, 62	5, 10, 16, 34, 42, 46, 51	25, 32	3, 5, 7, 11, 14, 17
BMI, Height, Weight	7, 11, 16, 23, 33, 42, 44, 50, 55, 62	10, 16, 26, 30, 34, 42, 46, 51	25, 32	3, 5, 7, 11, 14, 17
Hospital Episodes Statistics:	England & Scotland ✓	England & Scotland ✓	England ✓	Scotland & Wales ✓
DNA /biomarkers	44 (available), 62	46 (available)	32 (available)	14 (available)
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Anthropometry (e.g. blood pressure, body fat, grip strength, vision, motor skills)	7, 11, 16, 44, 62	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, 62	0, 5, 10, 16, 26, 30, 34, 38, 42, 46, 51	14*, 15*, 16*, 17*, 18*, 19*, 20*, 25*, 32	9m, 3, 5, 7, 11, 14, 17
Drugs & alcohol consumption	16, 23, 33, 42, 44, 46, 50, 55, 62	16, 26, 30, 34, 42, 46, 51	14, 15, 16, 17, 18, 19, 20, 25, 32	11, 14, 17

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Health measures in COVID-19 web surveys	NCDS 58	BCS 70	NS 89	MCS 01	
COVID-19 antibodies	n=3,222	n=2,547	n=1,267	CM	Par
				n=1,140	n=2,288
Long COVID	W3	W3	W3	W3	
Symptoms	W1, W2;	W1, W2;	W1, W2;	W1, W2;	
Testing	W1, W2;	W1, W2;	W1, W2;	W1, W2;	
COVID presence	W1, W2, W3	W1, W2, W3	W1, W2, W3	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	

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More information can be found in this video on the cohort studies through a biomedical science perspective

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Introducing the 1958, 1970, 1989-90 & 2000-01 birth...

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<https://www.youtube.com/watch?v=dSd7ETrQdR0&t=1932s>

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Mental Health & Wellbeing

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Mental health & Wellbeing– all cohorts

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- 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)

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Malaise

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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, 62	16, 26, 30, 34, 42, 46		
K4/K6		34		17
GHQ-12	42	16, 30	15, 17, 25, 32	
SF-36	50, 62	46		
WEMWEBS	50	42, 46		17
PHQ, GAD	62		32	

Self-report, teacher, parent

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COVID-19 sweeps: All Cohorts

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- **Patient Health Questionnaire-2 (PHQ-2):**
- Over the last 2 weeks, 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 last 2 weeks, how often have you been bothered by the following problems?
 - Feeling nervous, anxious or on edge
 - Not being able to stop or control worrying
- Not at all – Nearly every day

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More information can be found in this video on mental health in the cohort studies

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Mental health in four British cohort studies:...

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<https://www.youtube.com/watch?v=Do4XVUqsPO0&t=1510s>

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Wellbeing scales

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Well-being measure	NCDS	BCS70	NS89	MCS01
Warwick-Edinburgh Mental Wellbeing Scale (SWEMWBS)	50, 62	42, 46, 51		
Life satisfaction	33, 42, 46, 50, 62	26, 30, 34, 42, 46, 51	20, 25, 32	9 months, 5, 11, 14, 17
Quality of Life Scale (CASP- 12/6 item)	50, 55, 62			
Self-efficacy	33, 42, 46, 50, 62	26, 30, 34, 42, 51	14	14, 17
Loneliness (UCLA)	COVID sweeps, 62	COVID sweeps, 51	COVID sweeps, 32	COVID sweeps

Parent

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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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More information can be found in this video on families in the cohort studies

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Families and relationships in four British cohort studies...

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1/3 recordings

<https://www.youtube.com/watch?v=IFkCW C9eJbE>

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Education, ability and cognitive measures

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Education	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
<u>Study intentions</u>	16	16	14, 15, 16, 17	11, 14
<u>Further education</u>			ILR	
<u>Higher education</u>				
Degree subject	42, 46	38, 42,	20, 25, 32	17
University type	23,33	42.	20, 25, 32	17
Degree grade	42,	38	20, 25, 32	-
<u>Life long learning</u>	62	51	32	

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Cognitive ability in childhood

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- 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; English Picture Vocabulary Test
- Copying Designs Test; Human Figure Drawing; Complete a Profile Test

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Cognition	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*, 62	5, 10, 16, 21*, 34, 42, 51		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, 62	10, 46, 51	32	11
Processing speed	50, 62	46, 51		

* sub-sample

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Occupation, earnings and income

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Occupation, 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, 62	10, 16, 26, 30, 34, 38, 42, 46, 51	14, 15, 16, 20, 25, 32	3, 7, 11, 14, 17
Income (investments, income support, benefits, etc.)	16, 33, 42, 46, 50, 55, 62	10, 16, 30, 34, 38, 42, 51	14, 15, 16, 17, 18, 19, 20, 25, 32	3, 7, 11, 14, 17
Occupation	11, 33, 42, 46, 50, 55, 62	10, 30, 34, 38, 42, 46, 51	14, 15, 16, 17, 18, 19, 20, 25, 32	3, 7, 11, 14, 17
Social mobility (generational analysis)	✓	✓	✓	✓
Wealth (actual):				
Housing	55, 62	42, 51	32	11, 14
Financial				
- Savings	23, 33, 50, 62	34, 42, 46, 51	32	7, 11, 14
- Debt	33	42, 46, 51	25, 32	7, 11, 14
- Pensions	62	51	32	3, 5, 7, 11, 14

Self-report, parents

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How to search these resources

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- CLS data collection documentation
- UK Data Service study documentation
- Data dictionaries at variable level
- CLS Data site
- Research topic guides
- CLOSER Discovery
- CLS online bibliography



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Data Dictionaries

- [NCDS Data Dictionary](#)
- [BCS70 Data Dictionary](#)
- [Next Steps Data Dictionary](#)
- [MCS Data Dictionary](#)

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Data Dictionaries

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Sweep / Year / Age	Dataset name	Topic	Subtopic	Variable label	Value labels	Variable name
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Types of childcare used - A childminder	(-92) Refused (-91) Not applicable (-1) Don't know (C	W6CintroyPod
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Types of childcare used - A baby-sitter who comes to the home	(-92) Refused (-91) Not applicable (-1) Don't know (C	W6CintroyPde
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Types of childcare used - Your ex-husband/partner/the child's non	(-92) Refused (-91) Not applicable (-1) Don't know (C	W6CintroyPof
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Types of childcare used - The child's grandparent(s)	(-92) Refused (-91) Not applicable (-1) Don't know (C	W6CintroyPog
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Types of childcare used - Another relative	(-92) Refused (-91) Not applicable (-1) Don't know (C	W6CintroyPoh
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Types of childcare used - A friend or neighbour	(-92) Refused (-91) Not applicable (-1) Don't know (C	W6CintroyPoi
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Types of childcare used - Any other type of childcare	(-92) Refused (-91) Not applicable (-1) Don't know (C	W6CintroyPoj
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Types of childcare used - No answer	(-92) Refused (-91) Not applicable (-1) Don't know (C	W6CintroyPok
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Types of childcare used - Don't know	(-92) Refused (-91) Not applicable (-1) Don't know (C	W6CintroyPom
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Reasons for choosing childcare - Refused	(-92) Refused (-91) Not applicable (-1) Don't know (C	W6CintroyPon
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Reasons for choosing childcare - Quality of provision	(-92) Refused (-91) Not applicable (-1) Don't know (C	W6CintroyPoa
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Reasons for choosing childcare - Location	(-92) Refused (-91) Not applicable (-1) Don't know (C	W6CintroyPob
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Reasons for choosing childcare - Availability	(-92) Refused (-91) Not applicable (-1) Don't know (C	W6CintroyPoc
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Reasons for choosing childcare - Cost	(-92) Refused (-91) Not applicable (-1) Don't know (C	W6CintroyPod
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Reasons for choosing childcare - Trust	(-92) Refused (-91) Not applicable (-1) Don't know (C	W6CintroyPoe
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Reasons for choosing childcare - Other	(-92) Refused (-91) Not applicable (-1) Don't know (C	W6CintroyPof
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Reasons for choosing childcare - Don't know	(-92) Refused (-91) Not applicable (-1) Don't know (C	W6CintroyPog
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Amount of information available about childcare in local area	(-997) Script error (-92) Refused (-91) Not applicable	W6CintroyPoh
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Level of knowledge about childcare provided in local area	(-92) Refused (-91) Not applicable (-1) Don't know (I	W6CintroyPoi
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Quality of knowledge about childcare provided in local area	(-92) Refused (-91) Not applicable (-1) Don't know (I	W6CintroyPoj
Sweep6 - 2009 - 19 years old	wave_six_isype_young_person_2020.sav	Family & social networks	Childcare	YP: Quality of childcare in local area	(-92) Refused (-91) Not applicable (-1) Don't know (I	W6CintroyPok

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Childcare

Sort A to Z
Sort Z to A
Sort by Color
Clear Filter From "Subtopic"
Filter by Color
Text Filters
Search

Administration (CV19)
Age
Alcohol consumption
Anthropometry
Assets
Attitudes and beliefs - other
Benefits | Welfare
Child welfare
Childbirth
Childcare
Cognitive function
Criminal behaviour
Demographics - other
Diet and nutrition

OK Cancel

Variable label

Value labels

Variable name

YP: Types of childcare used - A childminder (-92) Refused (-91) Not applicable (-1) Don't know (C W6CintroyPod

YP: Types of childcare used - A baby-sitter who comes to the home (-92) Refused (-91) Not applicable (-1) Don't know (C W6CintroyPde

YP: Types of childcare used - Your ex-husband/partner/the child's non (-92) Refused (-91) Not applicable (-1) Don't know (C W6CintroyPof

YP: Types of childcare used - The child's grandparent(s) (-92) Refused (-91) Not applicable (-1) Don't know (C W6CintroyPog

YP: Types of childcare used - Another relative (-92) Refused (-91) Not applicable (-1) Don't know (C W6CintroyPoh

YP: Types of childcare used - A friend or neighbour (-92) Refused (-91) Not applicable (-1) Don't know (C W6CintroyPoi

YP: Types of childcare used - Any other type of childcare (-92) Refused (-91) Not applicable (-1) Don't know (C W6CintroyPoj

YP: Types of childcare used - No answer (-92) Refused (-91) Not applicable (-1) Don't know (C W6CintroyPok

YP: Types of childcare used - Don't know (-92) Refused (-91) Not applicable (-1) Don't know (C W6CintroyPom

YP: Reasons for choosing childcare - Refused (-92) Refused (-91) Not applicable (-1) Don't know (C W6CintroyPon

YP: Reasons for choosing childcare - Quality of provision (-92) Refused (-91) Not applicable (-1) Don't know (C W6CintroyPoa

YP: Reasons for choosing childcare - Location (-92) Refused (-91) Not applicable (-1) Don't know (C W6CintroyPob

YP: Reasons for choosing childcare - Availability (-92) Refused (-91) Not applicable (-1) Don't know (C W6CintroyPoc

YP: Reasons for choosing childcare - Cost (-92) Refused (-91) Not applicable (-1) Don't know (C W6CintroyPod

YP: Reasons for choosing childcare - Trust (-92) Refused (-91) Not applicable (-1) Don't know (C W6CintroyPoe

YP: Reasons for choosing childcare - Other (-92) Refused (-91) Not applicable (-1) Don't know (C W6CintroyPof

YP: Reasons for choosing childcare - Don't know (-92) Refused (-91) Not applicable (-1) Don't know (C W6CintroyPog

YP: Amount of information available about childcare in local area (-997) Script error (-92) Refused (-91) Not applicable W6CintroyPoh

YP: Level of knowledge about childcare provided in local area (-92) Refused (-91) Not applicable (-1) Don't know (I W6CintroyPoi

YP: Quality of knowledge about childcare provided in local area (-92) Refused (-91) Not applicable (-1) Don't know (I W6CintroyPoj

YP: Affordability of child care in local area (-92) Refused (-91) Not applicable (-1) Don't know (I W6CintroyPok

YP: Whether regularly take care of any children aged 14 or under who (-92) Refused (-91) Not applicable (-1) Don't know (I W6CintroyPom

YP: Relationship to children taken care of - Brother/ sister (-92) Refused (-91) Not applicable (-1) Don't know (I W6CintroyPon

YP: Relationship to children taken care of - Child of other family memb (-92) Refused (-91) Not applicable (-1) Don't know (I W6CintroyPoa

YP: Relationship to children taken care of - Other (-92) Refused (-91) Not applicable (-1) Don't know (I W6CintroyPob

YP: Whether regularly take care of children aged 14 or under outside o (-92) Refused (-91) Not applicable (-1) Don't know (I W6CintroyPoc

YP: Whether regularly looks after ill, disabled or elderly adult relative (-92) Refused (-91) Not applicable (-1) Don't know (I W6CintroyPod

NEXT STEPS: Safeguarded DataDict

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CLS Variable Search tool

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STUDIES

[CLS Explore](#) [Metadata Guide](#) [Browse Variables](#)

CENTRE FOR LONGITUDINAL STUDIES



Browse Variables

This BETA site version 1.2 is subject to ongoing testing and improvements. For more details, refer to the [Metadata Guide](#). If you have feedback or encounter any issues, please [contact us](#).

Filters

<p>Study / Sweep</p> <p>Click to filter on study/swp</p>	<p>Category</p> <p>Click to filter on category</p>	<p>Research topic</p> <p>Click to filter on topic</p>	<p>Variable name string</p> <p>Enter variable name string</p>
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[Start over](#)
[Submit »](#)

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SEARCH Closer Discovery

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STUDIES

About

Search

Explore

Lists 0

Item Type

- ☐ Studies (0)
- ☐ Sweeps (0)
- ☐ Datasets (0)
- ☐ Variables (7)
- ☐ Questionnaires (0)
- ☐ Questions (0)

More...

Help

closer Discovery Explore the content of UK longitudinal studies

UKRI Economic and Social Research Council

life satisfaction Sort by: Relevance

Item types: All
Query: life satisfaction
Search within: 1970 British Cohort Study

Results 1 to 8 of 8 (0.02 seconds)

COVID, Social, and Mental health - Life satisfaction

Study: 1970 British Cohort Study / Sweep: Age 50 COVID-19 Survey (2020) Wave 2 / Questionnaire: BCS70 Age 50 COVID-19 Survey - Wave 2

B960667

Satisfaction about how **life** has turned out (10)

Please tick the box with the number above it which shows how dissatisfied or satisfied you are about the way your **life** has turned out so far.

Study: 1970 British Cohort Study / Sweep: Age 26 Survey (1996) / Dataset: BCS70 Questionnaire (1996) Dataset

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Alternative methods for identifying variables

- Search in questionnaires (available from UK Data Service or [CLS website](#))
- Or download the actual datasets and search the variables ([UK Data Service](#))
- Descriptions of variables in published papers (most of which can be found in the CLS bibliography)

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Publications and resources

CLS Bibliography

The CLS Bibliography includes thousands of publications based on data from our studies. It is searchable by study, year, author, journal, title and abstract.



Data documentation

Here you will find all the documentation for our studies. This includes survey questionnaires, interviewer instructions, 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 studies.



Briefings and impact

Our briefings and impact library includes summaries of our research findings as well as reports highlighting the impact of our cohort studies.



CLS working papers

Our working papers series features research based on our four cohort studies and dates back to 1983. Topics range from social inequalities and mobility to physical health and cognitive development. Other papers in the series seek to improve the practice of



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Additional sources of information

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STUDIES

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.](#)
- [Rajatileka S, Groom A, Ring S. Harmonisation of strategies for exploitation of biological sample collections. London, UK: CLOSER; 2017.](#)
- [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.](#)
- [Maddock, J., O'Neill, D., Robinson, S., Crozier, S., Jameson, K., Dodgeon, B., Suderman, M., Emmett, P., Gush, K., Burton, J., Payne, J., Kumari, M., & Hardy, R. \(2020\). A guide to the dietary data in eight CLOSER studies. London, UK: CLOSER.](#)

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

- [Moulton, V., McElroy, E., Richards, M., Fitzsimons, E., Northstone, K., Conti, G., Ploubidis, G.B., Sullivan, A., O'Neill, D. \(2020\). A guide to the cognitive measures in five British birth cohort studies. London, UK: CLOSER.](#)

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Next

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

Richard Silverwood

Professor of Statistics & CLS Chief Statistician

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27 November 2025



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Outline

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

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Simple analyses

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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 (more descriptive) examples...

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Simple analyses: Examples

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Centre for Longitudinal Studies

UCL

Fertility intentions and postponed parenthood

Initial findings from Next Steps at Age 32

The age at first birth in the UK has steadily increased over time. Among women born in the early 1990s, 44% have had one or more children before the age of 30, compared with 58% of their mothers' generation (born in mid-1960s) and 81% of their grandmothers' generation (born in late 1930s).

While some individuals might prefer not to have children, others may be uncertain about their childbearing plans, or have reasons for putting them off. Against the backdrop of persistently low fertility rates in England and Wales (1.49 children per woman in 2022), understanding people's 'fertility intentions' – their desire to have or not have children – can shed light on potential barriers that might force individuals to postpone or forego having children.

This briefing investigates fertility intentions among 32-year-olds taking part in Next Steps, a nationally representative cohort study following the lives of around 16,000 people in England who were born in 1989-90. It focuses on the reasons why people who do want to have children (or more children) might postpone doing so, within a challenging social and economic context. Higher inflation, the rising cost-of-living and housing prices might strain current and potential parents financially. At the same time, the Covid-19 pandemic has significantly altered working styles and patterns, with increased remote work and flexible arrangements becoming more common. These changes may influence how individuals balance career and family planning decisions. Additionally, ongoing debates about parental leave policies, childcare costs, and work-life balance are shaping the environment in which this generation is making fertility decisions.

The analysis was conducted on an analytical sample of 7,279 Next Steps respondents, of whom 2,045 reported that they wanted to have children (or more children) but were not currently trying, and their reasons for postponing parenthood.

ABOUT THE DATA
Next Steps Age 32 Sweep
Next Steps is following the lives of around 16,000 people in England born in 1989-90. The Age 32 Sweep took place between April 2022 and September 2023. More than 7,200 study members took part in a 60-minute survey, either online or with an interviewer. Data from this and previous sweeps of Next Steps are available to download from the UK Data Service.

AUTHORS
Dr Alina Pelikh
Professor Alice Golsis

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Simple analyses: Examples

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Which of these statements best describes the way you feel about having (more) children?

- I would definitely like (more) children, and I'm currently trying
- I would definitely like (more) children, but I'm not currently trying
- I might like (more) children in the future, I'm not sure yet
- I would definitely not like (more) children
- I don't know
- Prefer not to say

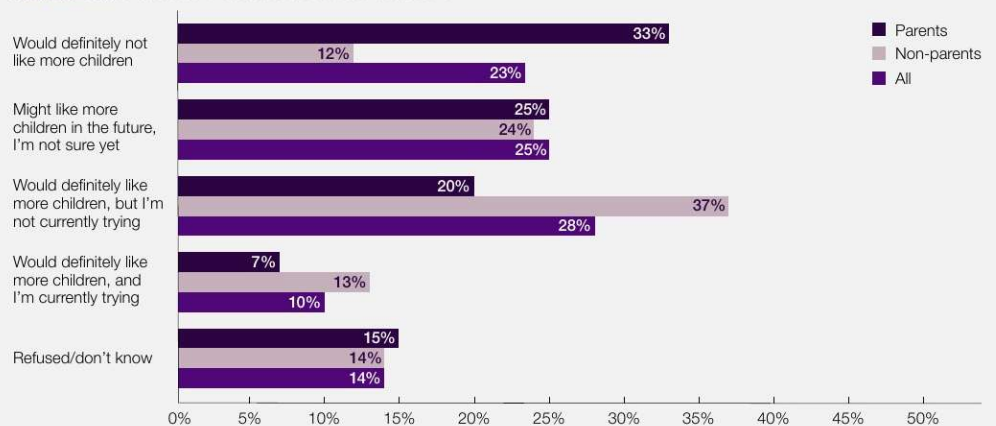
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Simple analyses: Examples

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FIGURE 1: FERTILITY INTENTIONS AT AGE 32



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Simple analyses: Examples

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Which one of the following best describes the main reason you are not currently trying to have (more) children?

- I do not feel ready to have (more) children yet
- I do not have a suitable partner to have children with
- My partner is unwilling at the moment
- Because of financial reasons
- Because of my work or study
- Because of my partner's work or study
- Because of environmental reasons
- Other (please specify)
- Don't know/Prefer not to say

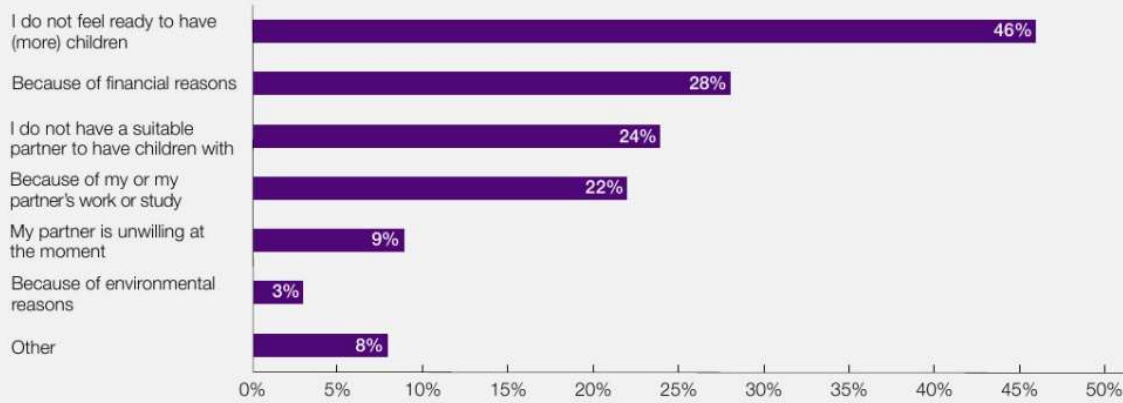
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FIGURE 2: REASONS FOR NOT TRYING TO HAVE (MORE) CHILDREN NOW



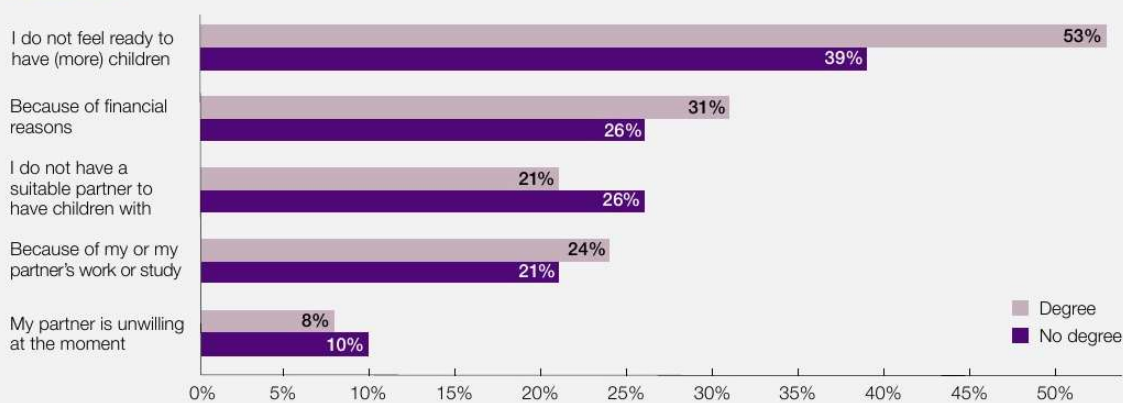
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Simple analyses: Examples

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FIGURE 3: REASONS FOR NOT TRYING TO HAVE (MORE) CHILDREN NOW, BY DEGREE STATUS



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Simple analyses: Key message

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- Great opportunity for simple (more descriptive) analyses – literally **thousands** of interesting variables collected in the cohorts.

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Confounder control

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Confounder control

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- 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 (exposure) and a dependent variable (outcome).

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Confounder control

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- 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.
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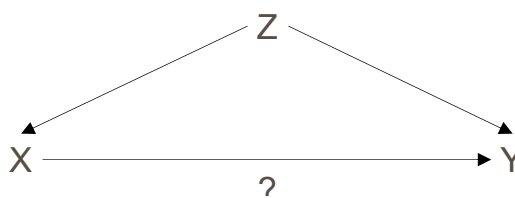
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Confounder control

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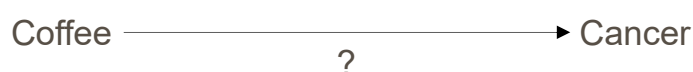
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Confounder control

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- 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.
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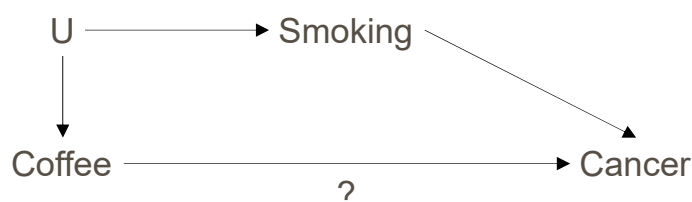
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Confounder control

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- 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 (exposure) and a dependent variable (outcome).



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Confounder control

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- 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 (exposure) and a dependent variable (outcome).
- Thankfully, the rich data collected on cohort members over many years/decades provide great opportunity for confounder control.

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Confounder control: Example

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Research

JAMA Psychiatry | Original Investigation

Association of Early-Life Mental Health With Biomarkers in Midlife and Premature Mortality

Evidence From the 1958 British Birth Cohort

George B. Ploubidis, PhD; G. David Batty, PhD, DSc; Praveetha Patalay, PhD; David Bann, PhD; Alissa Goodman, MSc

IMPORTANCE Early-life mental health is known to be associated with socioeconomic adversity and psychological distress in adulthood, but less is known about potential associations with biomarkers and mortality.

OBJECTIVE To investigate the association between early-life mental health trajectories with biomarkers in midlife and premature mortality.

DESIGN, SETTING, AND PARTICIPANTS This study used data from the British National Child Development Study, a population-based birth cohort. The initial sample of 17 415 individuals consisted of all infants born in Great Britain in a single week in 1958. Analysis began February 2017 and ended May 2020.

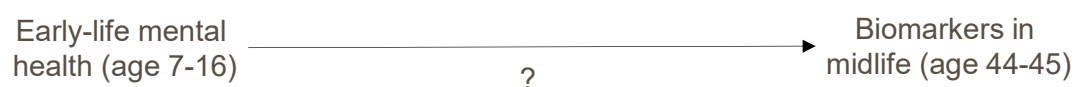
[Supplemental content](#)

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Confounder control: Example

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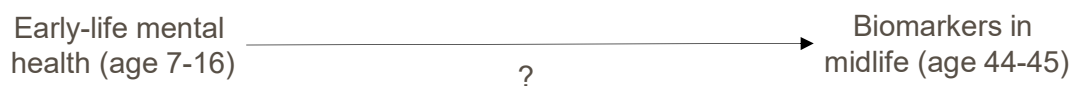
Confounder control: Example

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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



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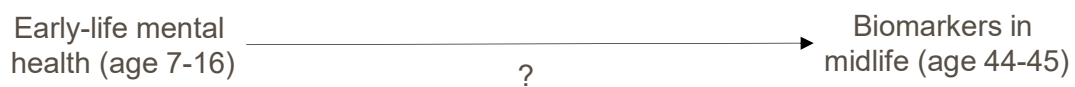
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Confounder control: Example

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Biomarkers in midlife (age 44-45)

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

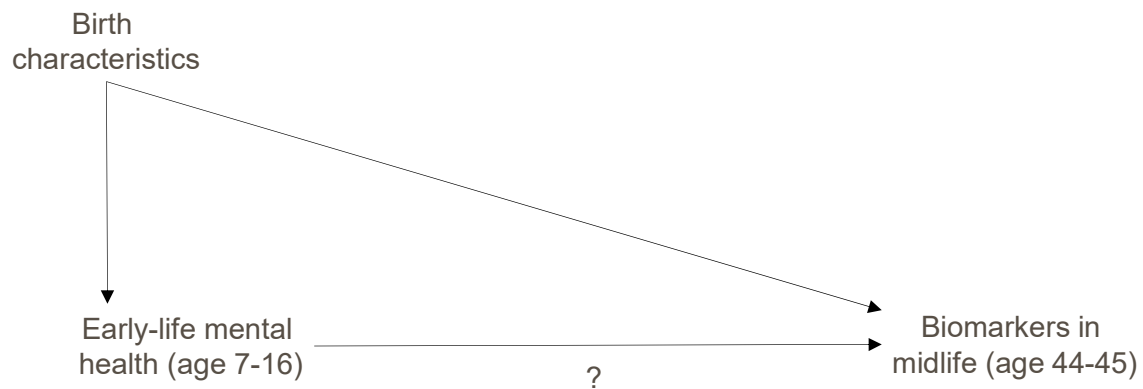


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Confounder control: Example

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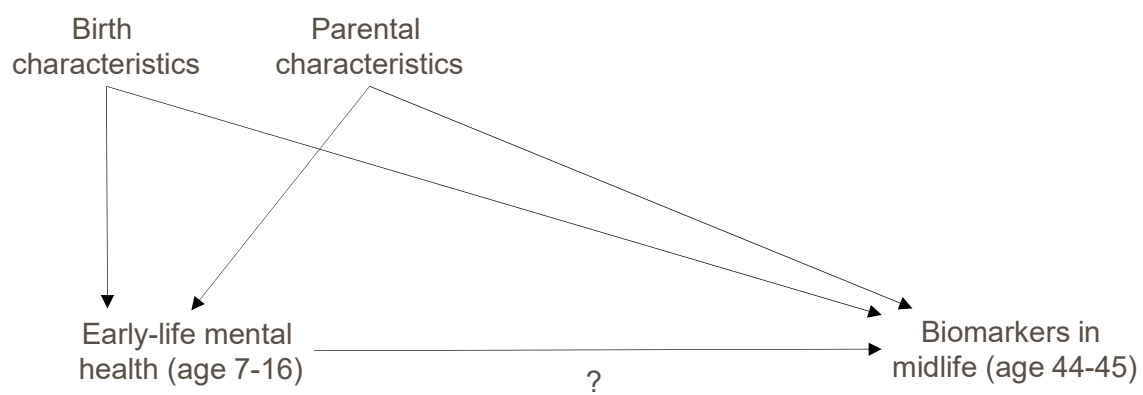


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Confounder control: Example

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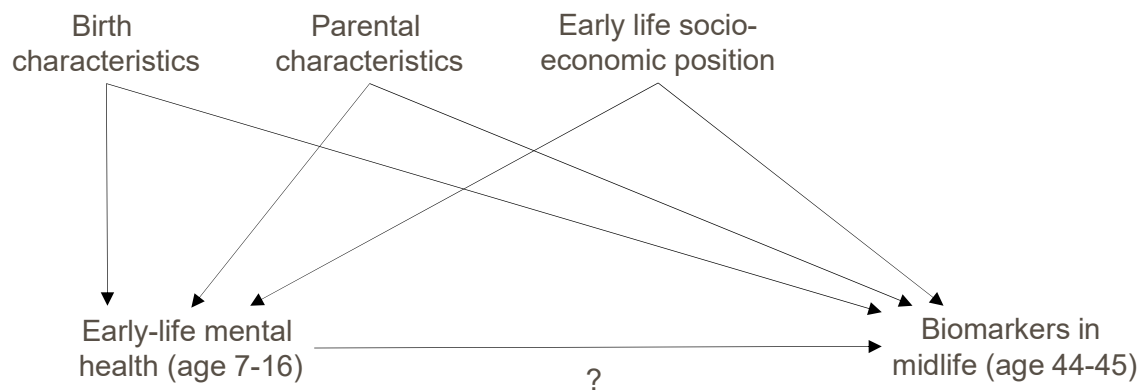


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Confounder control: Example

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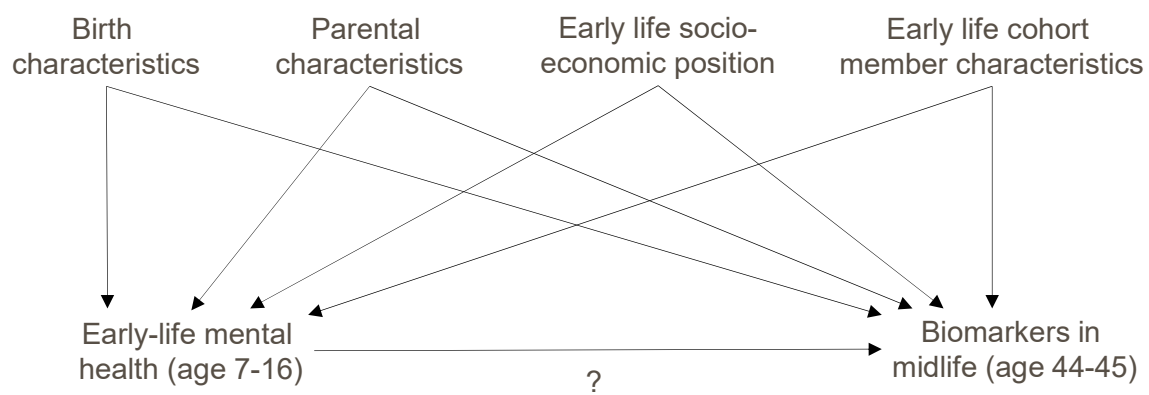


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Confounder control: Example

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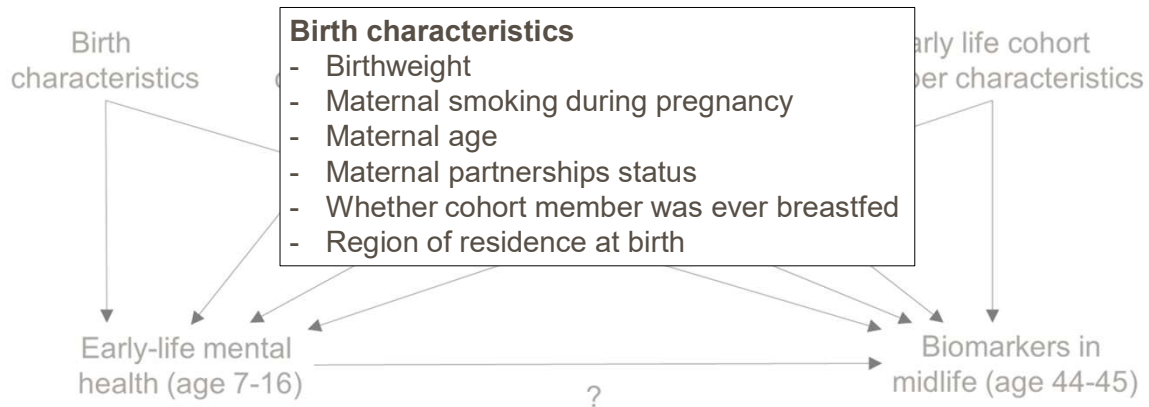


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Confounder control: Example

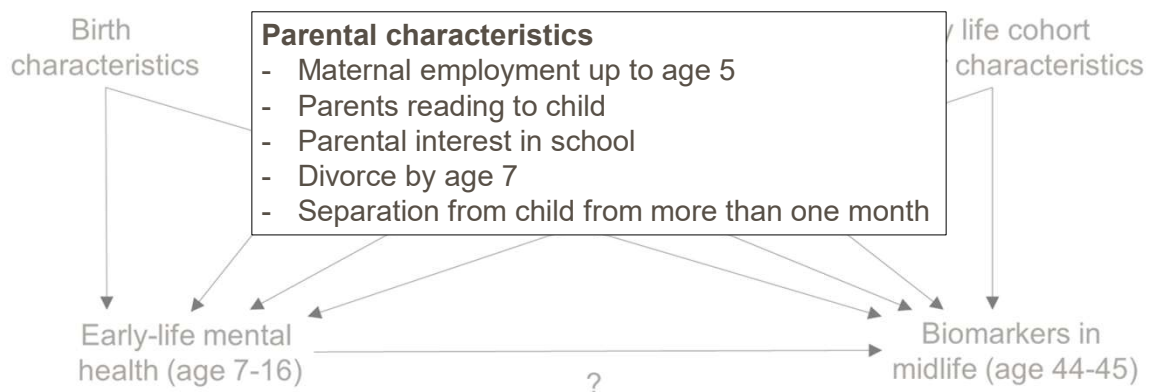
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Confounder control: Example

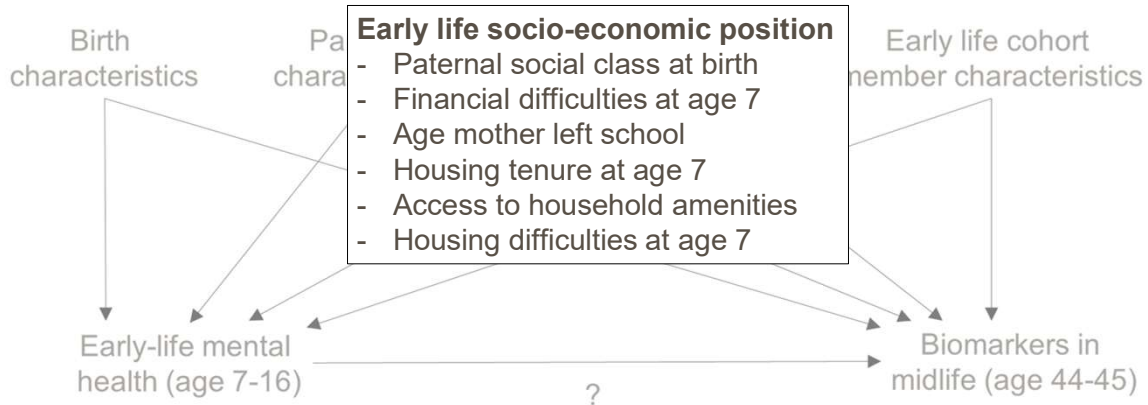
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Confounder control: Example

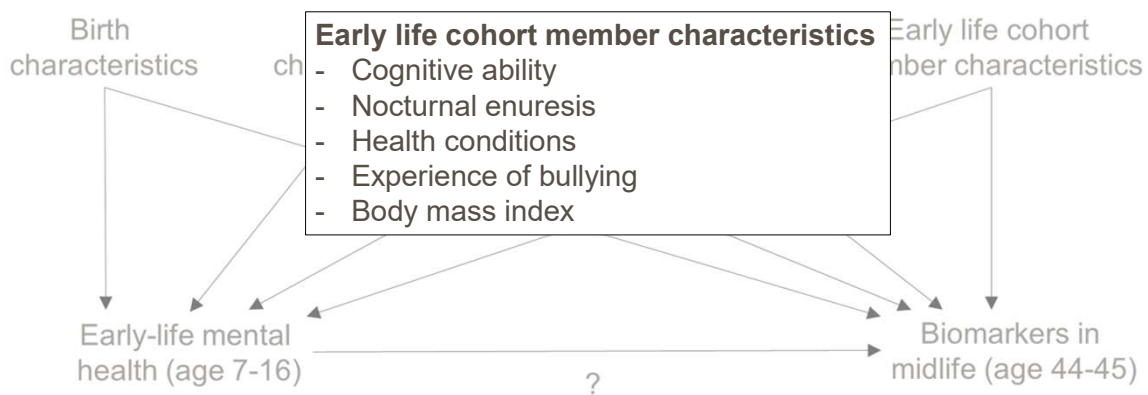
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Confounder control: Example

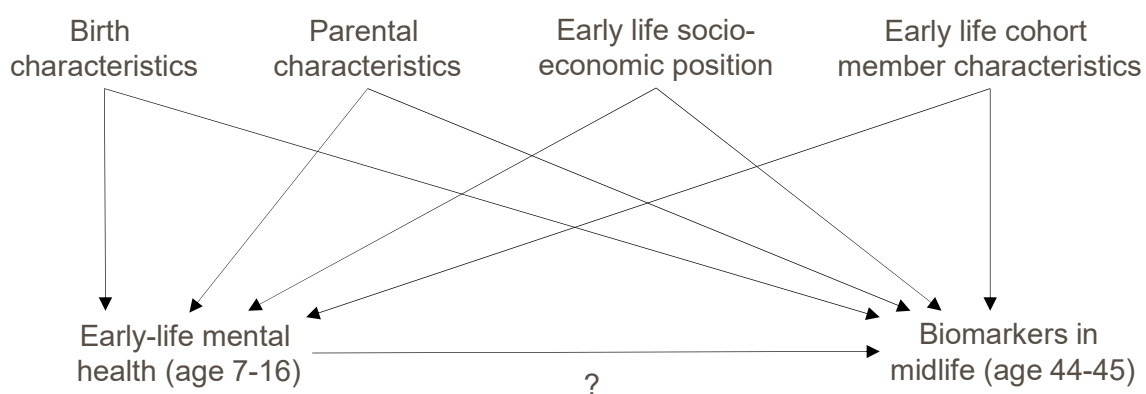
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Confounder control: Example

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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.

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Repeated measures

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Repeated measures

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STUDIES

- 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.

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Repeated measures: Example

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Research

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](#)

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Repeated measures: Example

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STUDIES

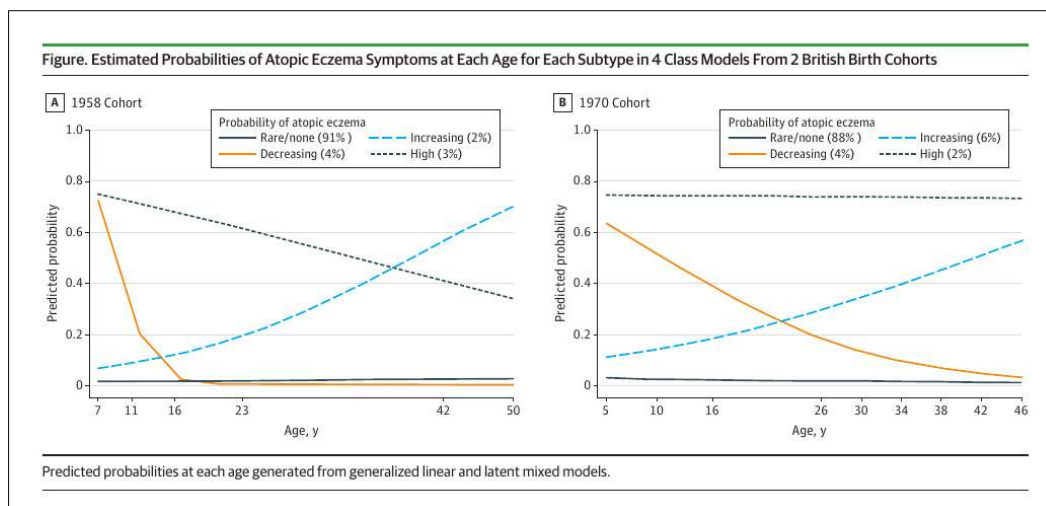
- Aimed to identify subtypes of eczema based on patterns of disease activity in NCDS and BCS70.
- Parent-reported or self-reported eczema period prevalence available from standardised questions at ages 7, 11, 16, 23, 42 and 50 in NCDS and ages 5, 10, 16, 26, 30, 34, 38, 42 and 46 in BCS70.
- Then examined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

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Repeated measures: Example

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STUDIES



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Repeated measures: Key message

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STUDIES

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

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Cross-cohort analysis

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Cross-cohort analysis

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LONGITUDINAL
STUDIES

- 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*.

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Cross-cohort analysis: Example

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STUDIES

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

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^2) was derived in each study from measured weight and height. Childhood socioeconomic position was indicated by the

Lancet Public Health 2018;
3: e194–203

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

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Cross-cohort analysis: Example

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STUDIES

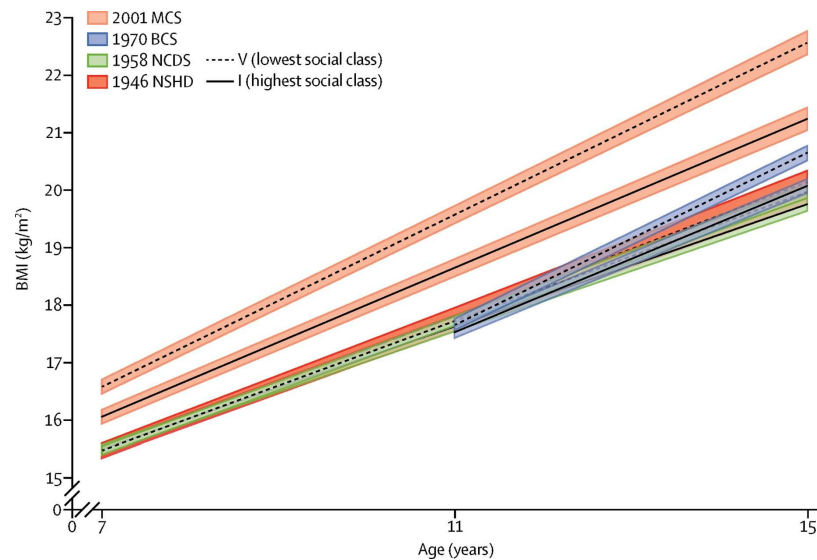
- Investigated how socioeconomic inequalities in childhood and adolescent weight, height, and BMI have changed over time.
- Used data from NSHD (BMI at ages 7, 11 and 15), NCDS (7, 11 and 16), BCS70 (10 and 16) and MCS (7, 11 and 14).
- Childhood socioeconomic position indicated by father's occupational 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.

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Cross-cohort analysis: Example

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STUDIES

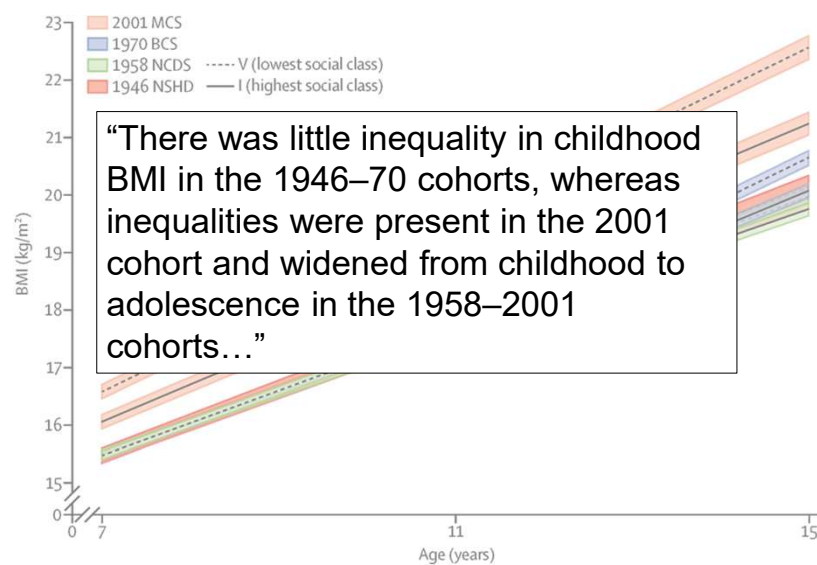


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Cross-cohort analysis: Example

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Cross-cohort analysis: Key message

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


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Cross-cohort analysis: Key message

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

Discover Social Science and Health

Perspective 

Investigating change across time in prevalence or association: the challenges of cross-study comparative research and possible solutions

David Bann¹ · Liam Wright¹ · Alice Goisis¹ · Rebecca Hardy^{1,2} · William Johnson¹ · Jane Maddock¹ · Eoin McElroy¹ · Vanessa Moulton¹ · Praveetha Patalay^{1,2} · Shaun Scholes² · Richard J. Silverwood¹ · George B. Ploubidis¹ · Dara O'Neill¹

Received: 9 May 2022 / Accepted: 18 October 2022
Published online: 27 October 2022
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Abstract
Cross-study research initiatives to understand change across time are an increasingly prominent component of social and health sciences, yet they present considerable practical, analytical and conceptual challenges. First, we discuss the key challenges to comparative research as a basis for detecting societal change, as well as possible solutions. We focus on studies which investigate changes across time in outcome occurrence or the magnitude and/or direction of associations. We discuss the use and importance of such research, study inclusion, sources of bias and mitigation, and interpretation. Second, we propose a structured framework (a checklist) that is intended to provide guidance for future authors and reviewers. Third, we outline a new open-access teaching resource that offers detailed instruction and reusable analytical syntax to guide newcomers on techniques for conducting comparative analysis and data visualisation (in both R and Stata formats).

Keywords Comparative research · Time trends · Cross-study analysis · Measurement · Missing data

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CLS bibliography

CENTRE FOR
LONGITUDINAL
STUDIES

CENTRE FOR LONGITUDINAL STUDIES

Bibliography

What is the CLS Bibliography?

The CLS Bibliography is a searchable database of thousands of publications based on data from our four core studies:

- 1958 National Child Development Study (NCDS)
- 1970 British Cohort Study (BCS70)
- Next Steps
- Millennium Cohort Study (MCS)

If you have a publication to contribute to the Bibliography, please contact us via email: clsdata@ucl.ac.uk

Tips for searching

The database is searchable by year, study, author and journal title. You can also search by keywords or phrases in the title or abstract.

Filter By

Choose a filter from the dropdowns and fields to narrow your search:

Search Year: From To Study:

Author: Journal: Title/Abstract:

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

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Getting started with the data

Richard Silverwood

Professor of Statistics & CLS Chief Statistician

CENTRE FOR
LONGITUDINAL
STUDIES

27 November 2025

**UK
RI**

Economic
and Social
Research Council

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This section

CENTRE FOR
LONGITUDINAL
STUDIES

- Accessing the data
- Additional resources
- Datasets, key identifiers (IDs)
- Study design and survey variables
- Non-response and attrition
- Where to go for more information

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Accessing the data

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Researchers in the UK and
around the world can
access data from our
cohort studies **free of
charge.**

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UK Data Service

UK Data Service

Find data Deposit data Learning Hub Training and events About News Impact Help Contact

Welcome to the UK Data Service

Trusted access and training to use the UK's largest collection of economic, population and social research data for teaching, learning and public benefit.

[Explore our data catalogue](#)

Highlights

Empowering researchers to influence the visions of policy makers

The UK Data Service has released a new film that explains the value of its key services to researchers around the world and how it supports their work to make positive changes to people's lives. With over 10,000 datasets in our collection, we help over 52,000 researchers worldwide to drive impactful social and economic research.

UK Data Service celebrates reaching 10,000 data collections landmark

The UK Data Service has hit a significant milestone in its history, with the number of data collections we make available reaching the 10,000 mark. Over the past six decades, the UK Data Service and its forerunners have supported research by simplifying findability and access to social, economic and population data.

How research data can help shape government policies

We were pleased to join forces with the team at CLOSER again this year to produce another informative podcast featuring several high-profile experts from the world of data, including our own Director, Dr Steve McEachern. In this new production, we explore how research data can be used by government policymakers to make positive influences to our society.

<https://ukdataservice.ac.uk/>

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Access to different types of data at UKDS

Safeguarded data: End User Licence (EUL)	Special safeguarded data: Special Licence (SL)	Controlled data: Secure Access Licence (SA)
<ul style="list-style-type: none"> • Low level of sensitivity and disclosivity. • Most of our data are available under this licence. • Application approved directly by UKDS. • Download data from UKDS. 	<ul style="list-style-type: none"> • Moderately sensitive or disclosive data. • Application approved by CLS. • Download data from UKDS. 	<ul style="list-style-type: none"> • The most sensitive and/or potentially disclosive data. • Application approved by CLS. • Attend specialised training. • Access via UKDS SecureLab.

More information: <https://cls.ucl.ac.uk/data-access-training/data-access/>

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Logging in to UKDS

CENTRE FOR
LONGITUDINAL
STUDIES

UK Data Service

Search the site... Login

Find data Deposit data Learning Hub Training and events About News Impact Help Contact

Login

If you are at a UK college or university, it's likely you can sign-in using your username/password for your college or university. Start typing your organisation name below:

You previously selected: **UCL (University College London)**

Start typing the name of your organisation...

Continue: you will be redirected to your organisation's website to sign-in

☐ My organisation is not listed.

If you are a SecureLab user, [click here to login to SecureLab](#).

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CLS cohort data at UKDS

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LONGITUDINAL
STUDIES

Links to the relevant area of UKDS for each study:

- [1958 National Child Development Study](#)
- [1970 British Cohort Study](#)
- [Next Steps](#)
- [Millennium Cohort Study](#)

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Accessing CLS cohort data

The screenshot shows the UK Data Service website. The top navigation bar includes links for Find data, Deposit data, Learning Hub, Training and events, About, News, Impact, Help, and Contact. A search bar and a Login button are also present. The main content area is titled 'Search our data catalogue' and features a sidebar for 'Download series metadata'. The main content area displays the 'Millennium Cohort Study' page, which includes tabs for Abstract, FAQ's, DOI change log, Resources, and Access data. The 'Access data' tab is circled in blue. The 'Abstract' section provides a brief overview of the study, stating that it began in 2000 and 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). The 'Citation and copyright' section is also visible at the bottom of the page.

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Millennium Cohort Study	
Abstract	FAQ's
DOI change log	Resources
Access data	
Studies	
SN	Study Description
4683	Millennium Cohort Study: Age 9 months, Sweep 1, 2001
5350	Millennium Cohort Study: Age 3, Sweep 2, 2004
5559	Millennium Cohort Study: Age 9 months, Sweep 1, 2003: Survey of Mothers who Received Assisted Fertility Treatment
5614	Millennium Cohort Study, 2001-2003: Birth Registration and Maternity Hospital Episode Data
5724	Millennium Cohort Study, 2001-2003: Hospital of Birth: Secure Access
5795	Millennium Cohort Study: Age 5, Sweep 3, 2006
6411	Millennium Cohort Study: Age 7, Sweep 4, 2008
7238	Millennium Cohort Study: Age 7, Sweep 4, 2008: Physical Activity
7261	Millennium Cohort Study: Age 9 months, Sweep 1, 2001-2003: Health Visitor Survey
7414	Millennium Cohort Study: Linked Education Administrative Dataset (KS1), Scotland: Secure Access
7464	Millennium Cohort Study: Age 11, Sweep 5, 2012
7758	Millennium Cohort Study: Sweep 1 Geographical Identifiers: Secure Access
7759	Millennium Cohort Study: Sweep 2 Geographical Identifiers: Secure Access
7760	Millennium Cohort Study: Sweep 3 Geographical Identifiers: Secure Access

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Access study data

The Data Collection is available to UK Data Service registered users subject to the [End User Licence Agreement](#).

Commercial use of the data requires approval from the data owner or their nominee. The UK Data Service will contact you.

Personal/genealogical use of these data is not permitted.

Additional conditions of use apply:

I agree not to use nor attempt to use the Data Collections to identify the individuals from which the study sample was selected, nor to claim to have done so; and

I agree not to link between the research identifiers supplied by the UK Data Service (MCSID) and any other identifiers previously issued.

Download these data by adding them to your account.

[Add to account](#)

Millennium Cohort Study: Age 3, Sweep 2, 2004

Details	Documentation	DOI change log	Resources
-------------------------	-------------------------------	--------------------------------	---------------------------

Details

Title	Millennium Cohort Study: Age 3, Sweep 2, 2004
Alternative title	MCS2
Study number	5350
Series	Millennium Cohort Study
Access	These data are safeguarded
Persistent identifier (DOI)	10.5255/UKDA-SN-5350-7
Data creator(s)	University of London, Institute of Education, Centre for Longitudinal Studies

Citation and copyright

Abstract

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Data

Assign dataset to a project

Before you can download a dataset or request access, you must assign it to one of your projects or create a new project for it. Once assigned, you can access datasets via the Projects section.

Awaiting assignment to projects

[Select all datasets](#)

SN	Dataset	
5350	Millennium Cohort Study: Age 3, Sweep 2, 2004	<input checked="" type="checkbox"/>

[Remove](#)
[Add to project](#)

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Assign datasets to project

SN	Dataset	Status	
5350	Millennium Cohort Study: Age 3, Sweep 2, 2004	-	<input checked="" type="checkbox"/>

☐ Create a new project

☒ Add to an existing project

Project: *

Please select...

Only checked datasets will be added to this project.

[Add to project](#)
[Cancel](#)

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[Your project name will be shown here]

Project **Datasets** Members Notes Log

Datasets in project

Select all datasets

SN	Dataset	Status		
8658	COVID-19 Survey in Five National Longitudinal Cohort Studies: Millennium Cohort Study, Next Steps, 1970 British Cohort Study and 1958 National Child Development Study, 2020-2021	✓ Active	Actions ▼	<input type="checkbox"/>
5350	Millennium Cohort Study: Age 3, Sweep 2, 2004	⚠ Request access	Actions ▼	<input type="checkbox"/>
5545	Next Steps: Sweeps 1-9, 2004-2023	✓ Active	Actions ▼	<input type="checkbox"/>

Download selected

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Complete actions for access

✎ Introduction

✓ Accept standard EUL

⚠ Additional conditions of use

Accept standard EUL

Please read and accept the following:

End User Licence Agreement Reminder

I understand that this Data Collection is supplied under the [UK Data Service End User Licence Agreement](#). I have read, understood and will abide by any and all terms and conditions of this Licence Agreement.

✓ You agreed to this on 21/11/2014.

Your changes will be saved automatically.

Close

Back

Next

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✕

Complete actions for access

✎ Introduction

✓ Accept standard EUL

⚠ Additional conditions of use

Additional conditions of use

Please read and accept the following:

I agree not to use nor attempt to use the Data Collections to identify the individuals from which the study sample was selected, nor to claim to have done so; and

I agree not to link between the research identifiers supplied by the UK Data Service [MCSID] and any other identifiers previously issued.

✓

You agreed to this on 31/10/2025.

🔄 Please wait, saving changes...

Close

Back

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[Your project name will be shown here]

Project

Datasets

Members

Notes

Log

Datasets in project

Unselect all datasets

SN	Dataset	Status		
8658	COVID-19 Survey in Five National Longitudinal Cohort Studies: Millennium Cohort Study, Next Steps, 1970 British Cohort Study and 1958 National Child Development Study, 2020-2021	✓ Active	Actions ▼	<input type="checkbox"/>
5350	Millennium Cohort Study: Age 3, Sweep 2, 2004	✓ Active	Actions ▼	<input checked="" type="checkbox"/>
5545	Next Steps: Sweeps 1-9, 2004-2023	✓ Active	Actions ▼	<input type="checkbox"/>

Download selected

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Download

Select all downloads

File Format	File Size (mb)	Download	
Dataset: Millennium Cohort Study: Age 3, Sweep 2, 2004			
SPSS	22.79	Download	<input type="checkbox"/>
STATA	21.81	Download	<input checked="" type="checkbox"/>
TAB	23.31	Download	<input type="checkbox"/>

Download selected

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Additional resources

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Other resources

CENTRE FOR
LONGITUDINAL
STUDIES

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

Cohort profiles...

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Cohort profiles

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STUDIES

- Power C, Elliott J. Cohort profile: 1958 British birth cohort (National Child Development Study). *Int J Epidemiol.* 2006;35(1):34-41. <https://doi.org/10.1093/ije/dyi183>
- Sullivan A, Brown M, Hamer M, et al. Cohort Profile Update: The 1970 British Cohort Study (BCS70). *Int J Epidemiol.* 2023;52(3):e179-e86. <https://doi.org/10.1093/ije/dyac148>
- Wu AF, Henderson M, Brown M, et al. Cohort Profile: Next Steps – the longitudinal study of people in England born in 1989-90. *Int J Epidemiol.* 2024;53(6). <https://doi.org/10.1093/ije/dyae152>
- Joshi H, Fitzsimons E. The Millennium Cohort Study: the making of a multi-purpose resource for social science and policy. *Longitudinal and Life Course Studies.* 2016;7(4):409-30. <https://doi.org/10.14301/llcs.v7i4.410>

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Datasets, key identifiers (IDs)

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Example datasets

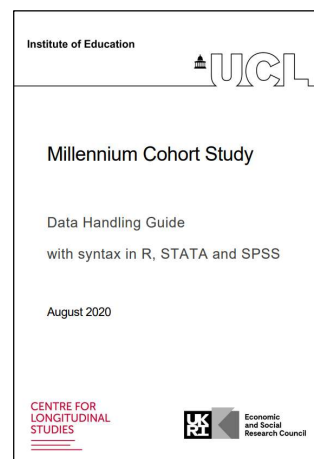
Name	Contents	Structure
NS8_2015_Main_Interview	Modules 1 to 7	Flat
NS8_2015_Self_Completion	Module 8	Flat
NS8_2015_Partnerships	Relationship histories	Hierarchical
NS8_2015_Children	Details of children of CM	Hierarchical
NS8_2015_Household_Members	Details of members living in same household as CM	Hierarchical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

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Key identifiers (IDs)

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LONGITUDINAL
STUDIES

- Cohort members have their own consistent identifiers (IDs):
 - NCDS: NCDSID
 - BCS70: BCSID
 - Next Steps: NSID
- Further IDs in MCS:
 - MCSID identifies families
 - CNUM identifies cohort members within families
 - PNUM identifies everyone else in the family
- Use these IDs to combine datasets.



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Study design and survey variables

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Study design and survey variables

CENTRE FOR
LONGITUDINAL
STUDIES

Cohort	Target population	Study design	Survey variables
NCDS	All born in GB in one week in 1958	Captured 98% of all births in GB in target week	None
BCS70	All born in GB in one week in 1970	Captured 95-98% of all births in GB in target week	None
Next Steps	Young people in England in 2004 born Sept 1989 to Aug 1990	Schools first sampled, then pupils within schools Deprived schools and pupils from minority ethnic groups oversampled	PSU: SampPSU Strata: SampStratum Design weight: DESIGNWEIGHT
MCS	Children born Sept 2000 to Jan 2002 and living in UK at age nine months	Areas of residence first sampled, then all eligible children selected Children living in disadvantaged areas, children of ethnic minority backgrounds and children growing up in the smaller nations of the UK all oversampled	PSU: sptn00 Strata: PTYPE2 Design weight: WEIGHT2

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Non-response and attrition

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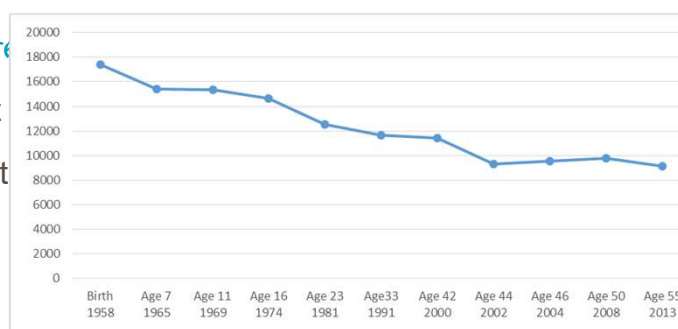
Non-response and attrition

Sweep non-response

- Cohort members not responding to a particular sweep.
- Common in longitudinal surveys.

Item non-response

- Cohort
- Tends to



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Complete case analysis

- Missing data reduce analysis sample size → lower statistical power.
- Potential risk to **representativeness** as respondents often systematically different from non-respondents.
- Analysing only cohort members with observed data ('complete case analysis') may therefore lead to bias.

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Non-response weights

- Reweight the respondents at a given sweep to be representative of the original sample.
- Provided in:
 - MCS: all sweeps; country-specific and UK-wide versions
 - Next Steps: all sweeps
 - NCDS: most recent sweep only
 - BCS70: most recent sweep only
- See relevant user guides for full details.
- Can derive own analysis-specific weights.

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Dealing with non-response: resources

The image displays three overlapping resources for handling missing data in longitudinal studies:

- Centre for Longitudinal Studies (CLS) Website:** A webpage titled "Handling missing data" with a navigation menu (Our studies, Our research, Publications and resources, Data access and training). It includes a "Background" section stating: "This page gives an overview of the handling of missing data in cohort studies. We know different types of people tend to drop out of longitudinal studies over time, due to various characteristics. To support researchers of CLS cohort data deal with this common problem, we have developed this user guide to help you handle missing data and reduce bias."
- UCL Website:** A webpage titled "Handling missing data in the CLS cohort studies" with a "User guide" dated May 2024. It features the UCL logo and the Centre for Longitudinal Studies logo.
- YouTube Video:** A video titled "Handling missing data in the British cohort studies (with theory and demo)" (2023, 190 minutes). The video thumbnail shows a person's legs and feet in a pool, with a red play button icon. The video is hosted on YouTube.

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Where to go for more information

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CLS website

The screenshot shows the homepage of the Centre for Longitudinal Studies (CLS) at UCL. The main navigation bar includes links for HOME, ABOUT, NEWS, EVENTS, and CONTACT. Below this, there are tabs for COVID-19, Our studies, Our research, Publications and resources, and Data access and training. The 'Our studies' tab is selected, leading to the '1970 British Cohort Study' page. The page features a section titled 'On this page' with links to Introduction, Sweeps, COVID-19 survey and data, Sub studies, 50 stories in 50 weeks, Latest from BCS70, Recent publications, Study features, Popular documentation, Data access, Principal investigator, and More related content. A large image shows a group of people, with the text 'BCS70' and 'The 1970 British Cohort Study (BCS70) is following the lives of around 11,000 people born in England, Scotland and Wales in a single week of 1970.' Below this, there is a section for 'BCS70 sweeps' with a table showing the years and ages of the sweeps.

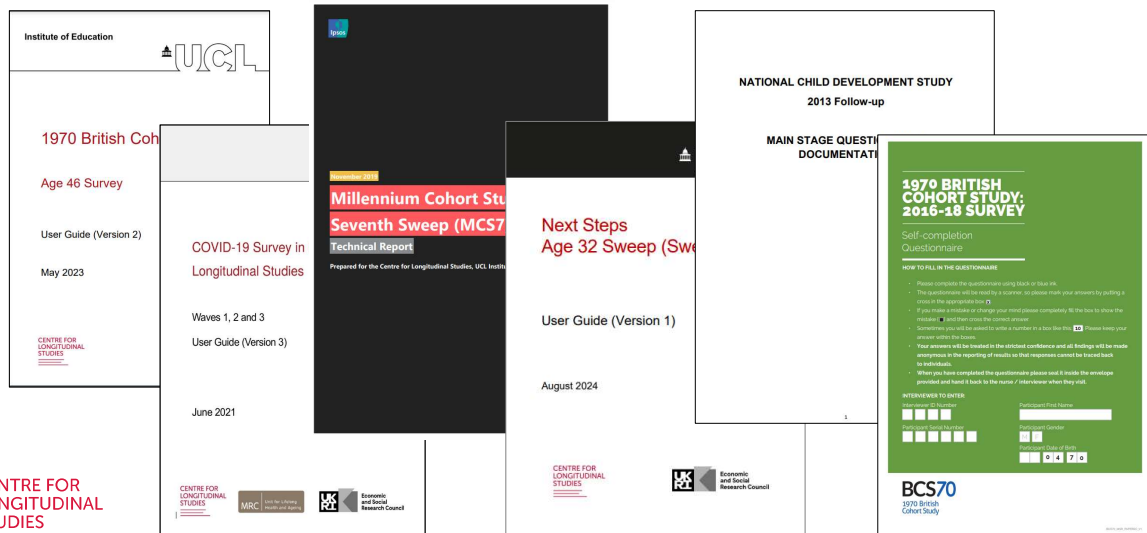
Year	1970	1975	1980	1986	1996	2004	2009	2012	2016	2021	
Age	Birth	5	10	16	26	30	34	36	42	46	51

The screenshot shows a video player with the title 'Introduction to the 1970 British Cohort Study' and a duration of '(2022, 72 minutes)'. The video thumbnail shows a man and a woman in a kitchen setting. Below the video player, there is a section titled 'Webinar: Introduction to the 1970 British Cohort Study' with a 'Watch on YouTube' button.

<https://cls.ucl.ac.uk/>

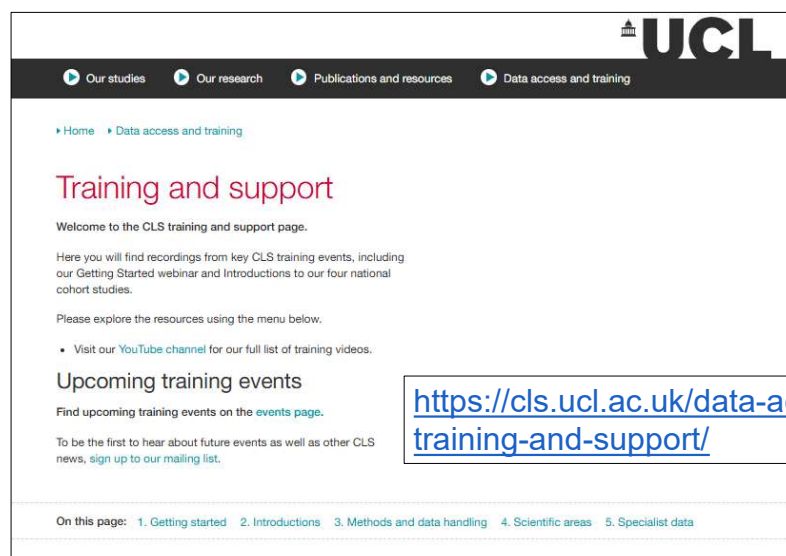
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User guides, technical reports, questionnaires



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CLS training and support



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CLS YouTube channel

Search

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UCL Centre for Longitudinal Studies

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The UCL Centre for Longitudinal Studies is a world-leading centre for research, scientific...more

[cls.ucl.ac.uk](#) and 3 more links

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Videos

Playlists

Q

Getting started: An introduction to four British cohort studies

477 views · 11 months ago

New to the CLS cohort studies? This webinar will give you an overview of four internationally renowned national cohort studies and the wide range of opportunities they offer to researchers.

00:02:10 Introduction to the cohorts

00:13:31 Types of content by subject area...

READ MORE

<https://www.youtube.com/@CLScohort>

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Latest data release webinars ▶ Play all

Explore the latest data releases from the UCL Centre for Longitudinal Studies' unique series of nationally representative UK longitudinal studies.

1958 National Child Development Study at age...

1970 British Cohort Study at age 51: explore the new data

Next Steps at age 51: explore the new data

Methods and data handling ▶ Play all

Watch our latest webinars on handling and analysing data in the British cohort studies.

Handling survey mode effects in the British cohort...

Handling missing data in the 1970 British Cohort Study

Introduction to longitudinal data: structure and...

Handling missing data in the British cohort studies...

Cross-cohort comparative analysis in the British cohort...

Scientific areas ▶ Play all

These webinars showcase the scientific content of some of the data from our four national cohort studies. Currently available: ageing, mental health, care and biomedical data.

Families and relationships in four British cohort studies...

Examining ageing in the British cohort studies...

Mental health in four British cohort studies...

Care in the cohorts: measurement, research and...

Introducing the 1958, 1970, 1998-99 & 2000-01 birth...

Specialist data ▶ Play all

These videos look in detail at some of the enhanced data collected or linked to our four national cohort studies. They include administrative health and education data linked to our studies. There...

Introducing polygenic scores in four national cohort...

Harmonising physical health measures in five national...

Genetics and epigenetics data in the British cohort...

Using Linked Administrative Data: Hospital Episode...

An introduction to linked health administrative data L...

Millennium Cohort Study (MCS) linked education...

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CLOSER Learning Hub

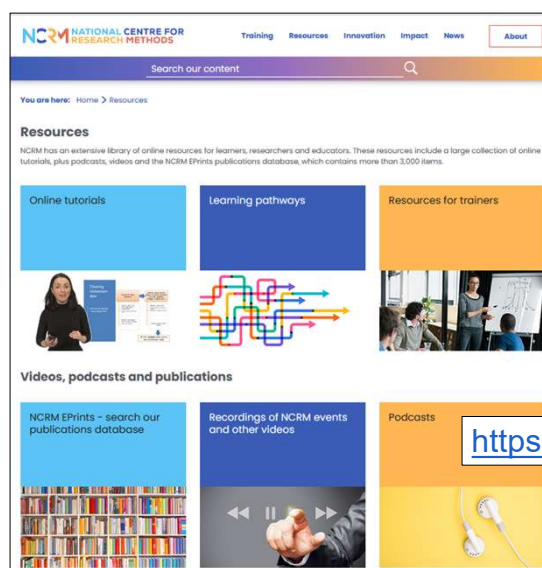


<https://learning.closer.ac.uk/>

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National Centre for Research Methods

CENTRE FOR
LONGITUDINAL
STUDIES

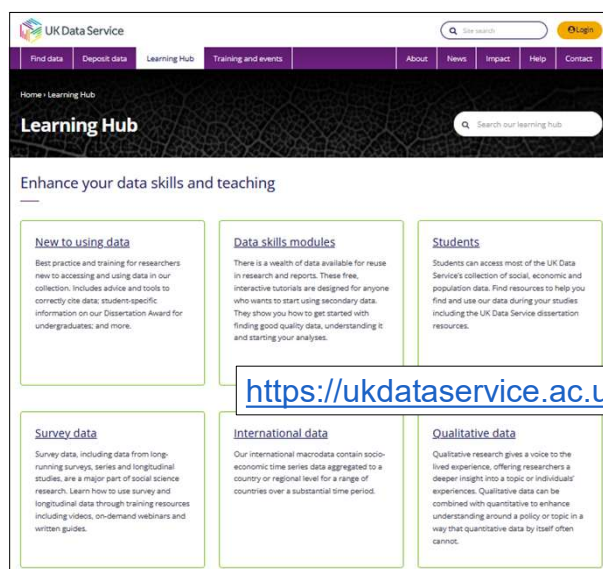


<https://www.ncrm.ac.uk/>

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UKDS Learning Hub

CENTRE FOR
LONGITUDINAL
STUDIES



<https://ukdataservice.ac.uk/learning-hub/>

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What we've covered

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- An introduction to birth cohorts
- Some of the content in the CLS cohorts by subject areas
- Examples of the types of analysis
- Getting started with the data
- Where to go for more information

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