

## PUBLIC

### ALSPAC Grant Acknowledgements

(version 4.0: last updated 17/09/2020)

We have standard wording that must be included in **all** publications to acknowledge our core funding:

“The UK Medical Research Council and Wellcome (Grant ref: 217065/Z/19/Z) and the University of Bristol provide core support for ALSPAC. This publication is the work of the authors and <INSERT NAMES> will serve as guarantors for the contents of this paper.”

In addition, you are expected to acknowledge the grant(s) which supported the collection of the **primary exposure(s) and outcome(s)** used in your study and any other grants in the checklist, which are pertinent to your study. The following sentences should be included with the above section:

“A [comprehensive list of grants funding](#) is available on the ALSPAC website. This research was specifically funded by <INSERT DETAILS FOR SPECIFIC PROJECT(S) WHERE APPROPRIATE, including grant number(s)>.”

We have provided a table of grants for data collected since 2006. Please consult this and ensure all grants are acknowledged. If you can't find the specific grant for the data you have used in the table please email [alspac-data@bristol.ac.uk](mailto:alspac-data@bristol.ac.uk) who will try and assist. If the collection is not listed below or there are any errors then please let us know.

#### Child data - Clinic

**Focus@24: June 2015 to October 2017**

Funder	Grant reference	PI	Measures
Wellcome Trust and MRC (core)	076467/Z/05/Z	George Davey Smith	Height, weight, bioimpedance, DXA scan, Self-harm, Male reproductive health, SD body scan Chlamydia screening Cholesterol, insulin, full blood count, saliva, urine
British Heart Foundation	CS/15/6/31468	Alun Hughes	Echocardiography, BP measures, Carotid intima-media thickness (cIMT), Pulse wave velocity (PWV), Sphygmocor/pulse wave analysis (PWA), hand grip and step exercise tasks, Actigraph activity monitoring device
MRC	MR/L022206/1	Matt Hickman	Liver function, alcohol use, EPrime cognitive tasks, Anti-social behaviour, Friends' behaviour, Police and criminal justice. Depression, anxiety and health/well-being
MRC	MR/M006727/1	Stan Zammit	Smoking, cannabis use & other drugs, WISC tasks, Personality, Difficult experiences, Family, friends and work, PLIKS interview, Source monitoring task, Jumping to conclusions task, Predictive processing task
MRC	MR/M022501/1	John Henderson	Lung function
MRC	MR/M009351/1	Abi Fraser	Female reproductive health

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### Teen Focus 4 (age 17 clinical assessment): Dec 2008 to June 2011

Funder	Grant reference	PI	Measures
Wellcome Trust	086676/Z/08/Z	Alun Hughes	Blood pressure, pulse, BP with activity e.g. BP step and BP handgrip, Sphygmocor (central BP), actigraph, 24hr ambulatory BP monitoring
British Heart Foundation	PG106/145	Alun Hughes	Echocardiography
British Heart Foundation	RG/10/004/28240	John Deanfield	Inter-medial thickness pulse wave velocity
Wellcome Trust	084632/Z/08/Z	Jon Tobias	DXA, pQCT, fractures questionnaire, G-force, pain questionnaire, scoliosis, hypermobility
Wellcome Trust	08426812/Z/07/Z	Glyn Lewis	Life events, CSQ-script, CSQ, relationships, N-back, Go No Go, probability reversibility, C-ISR
MRC	G0701503/85179	Stan Zammit	PLIKS, bullying, anxiety sensitivity index, dysfunctional attitude scale, peers substance use, education and employment
MRC	G0800612/86812	Matt Hickman	Antisocial activities, alcohol, substance use
Wellcome Trust	086684	Marcus Munafo	Smoking
Center for Disease Control	AY5350	Carol Rubin	Menstruation questionnaire
NHS Bristol (Chlamydia screening programme)		John Macleod	Chlamydia and gonorrhoea testing
Wellcome Trust and MRC (core)	076467/Z/05/Z	George Davey Smith	Height, weight, bioimpedance, dental health questionnaire
MRC	G0801456	Debbie Lawlor	Liver (spleen and kidney) ultrasound scan and Doppler, liver enzyme (ALT, AST, ATP, GGT) assays

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### Teen Focus 3 (age 15 clinical assessment) Oct 2006 to Nov 2008

Funder	Grant reference	PI	Measures
Wellcome Trust and MRC (Core)	076467/Z/05/Z	George Davey Smith	DXA (total body, hip scan), Head circumference, arm circumference, waist circumference, height, sitting height, weight, impedance, fat percentage, parental on child adult DAWBA, parental monitoring, vision (accommodation, autorefracton, axial length, corneal curvature, eye preference, stereopsis), blood sample, cell lines, moles questionnaire, fractures questionnaire, Sleep questionnaire, WASI, stop-signal inhibition computer task, smoking, alcohol, substance use, romantic relations (adolescent sexuality activity index), films
Wellcome Trust	079960/Z/06/Z	Jon Tobias	pQCT, tibia length
MRC	G0401540/73080	John Henderson	Lung function (nitric acid in lung and lung function before and after salbutamol), urine sample for cotinine
University of Manchester		Davis B323	Hearing (audiometry, otoacoustic emissions)
NIH	5R01MH073842-04	Tom O'Connor	DAWBA
British Heart Foundation	PG106/145	Alun Hughes	Resting blood pressure
NIH	5R01HL071248-07	Chris Riddoch	Activity questionnaire, activity monitors (accelerometers), exercise test
MRC	G0500953	Barbara Maughan	ESYTC
University of Cardiff		Stephen Richmond	3D face shape scan
Center for Disease Control	AY5350	Carol Rubin	Menstruation questionnaire
NIH	R01 DK077659	Debbie Lawlor	Glucose, insulin, standard lipids, CRP and AMH assays on fasting samples

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### Child data - Questionnaires

#### Questionnaire 'COVID2'

Funder	Grant reference	PI	Question topic
Wellcome Trust and MRC UoB Faculty Research Director's Discretionary Fund	102215/2/13/2	Nic Timpson	General health, seasonal symptoms, activities, impact of the pandemic on well-being and mental health, living arrangements, keyworker/healthcare status, behaviours such as lifestyle changes, food intake, alcohol use and gambling, social contacts, employment and financial impact

#### Questionnaire 'COVID1'

Funder	Grant reference	PI	Question topic
Wellcome Trust and MRC Elizabeth Blackwell Institute for Research, UoB	102215/2/13/2	Nic Timpson	General health, recent travel and seasonal symptoms, activities, impact of the pandemic on well-being and mental health, living arrangements, keyworker/healthcare status

#### Questionnaire 'Your Life at 26+'

Funder	Grant reference	PI	Question topic
Wellcome Trust and MRC	102215/2/13/2	Nic Timpson	Health, wellbeing, physical activity, life events, education, attitudes to data sharing
Internal McMaster funding		James MacKillop	Monetary choice, Behaviour
NIH		Amy Taylor	Family and fertility
MRC	MR/M006727/1	Stan Zammit	Unusual experiences

#### Questionnaire 'Your Life at 25+'

Funder	Grant reference	PI	Question topic
Wellcome Trust and MRC	102215/2/13/2	Deborah Lawlor	Being a parent
Wellcome Trust		Anita Thapar	Strengths and difficulties, Anxiety, medications for ADHD
Sir Halley Stewart Trust		Rosie Lacey	Healthcare use, health information
Wellcome Trust and MRC	102215/2/13/	George Davey Smith	Injuries and accidents

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### Questionnaire 'Your Life at 24+

Funder	Grant reference	PI	Question topic
Wellcome Trust and MRC	102215/2/13/2	George Davey Smith	Life events
Wellcome Trust and MRC	102215/2/13/2	Deborah Lawlor	Being a parent
NIH	R21MH109917	Nadia Micali	Communication skills
St Joseph's Healthcare Hamilton		James MacKillop	Monetary choice, Behaviour
NIHR	1215-20011	Becky Mars	Self-harm
Cancer Research UK	C54841/A20491	Amy Taylor	Smoking and e-cigarette use

### Questionnaire 'Your Life at 23+

Funder	Grant reference	PI	Question topic
Wellcome Trust and MRC	102215/2/13/2	Kasia Kordas	Social Media; siblings; Life events, Education and Employment
Wellcome Trust and MRC	102215/2/13/2	John Macleod	Sexual experience
Elizabeth Blackwell Institute and Wellcome Trust	PSYC.RJ6220 SSCM.RD1809	Claire Howarth	Wellbeing
MRC	MR/M006727/1	Stan Zammit	Mental health and traumatic experiences
CRUK	C54841/A20491	Amy Taylor	Smoking and e-cigarette use
Wellcome Trust and MRC	102215/2/13/2	Debbie Lawlor	Being a parent
MRC and Kellogg	SPOL.RM8475 SSCM.RD1747	Laura Howe & Laura Johnson	Eating behaviour
University of Bristol		Nic Timpson	Teeth

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### Questionnaire 'Life at 22+'

Funder	Grant reference	PI	Question topic
Wellcome Trust and MRC	102215/Z/13/Z	George Davey Smith	General health, Respiratory health, Physical activity, Being a parent, Education and Employment, Voting
University of Texas	2P01AR052915-06Aa	David Evans	Health conditions
University College London	n/a	Nadia Micali	Fractures
NIHR	CDF/2009/02/35	Cathy Williams	Vision
NIH	PD301198-SC101645	Matt Hlickman	Moods and Feelings, substance use, other behaviours (antisocial behaviour), life events
MRC	G0701594	Abigail Fraser	Childhood experiences

### Questionnaire 'Your Life Now' (age 21)

Funder	Grant reference	PI	Question topic
Wellcome Trust and MRC	092731	George Davey Smith	COCO90's, your health and wellbeing, sexual health, sexual health screening, employment, education and training, moods and feelings, unusual experiences, tobacco
NIH	5R01AA018333-0	Glyn Lewis	Anxiety
NHS Bristol Clinical Commissioning Group	RP-PG-0108-10048	Gene Feder	Intimate partner violence
Universities of Glasgow and Cardiff		Daniel Smith	Energy, activity and mood

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### Questionnaire 'It's all about you' (age 20)

Funder	Grant reference	PI	Question topic
Wellcome Trust and MRC	092731	George Davey Smith	COCO90s, education, employment and training,
Responsible Gambling Fund	n/a	Alan Emond	Gambling
NIHR Norwegian University of Science and Technology	PR-RS-0912-11023 n/a	David Gunnell	Deliberate self-harm
NIH	5R01AA018333-05	Matt Hickman	Tobacco and alcohol, drug use, other behaviours

### Questionnaire 'You and your body aged 19+' (age 19)

Funder	Grant reference	PI	Question topic
International Urogynecological Association	n/a	Rufus Cartwright	Bladder and urinary symptoms
Wellcome Trust	089549/Z/09/Z	Hany Lashen	Hormone levels

### Questionnaire 'Your Changing Life' (age 18)

Funder	Grant reference	PI	Question topic
Wellcome Trust and MRC	092731	George Davey Smith	Feelings, friendships and activities, pet ownership, different experiences, moods and feelings, your health
DCSF	EOR/SBU/2002/1211	DCSF	Friendships
MRC	G0401540 73080	Jon Ayre; Paul Gregg	Education and training, employment, voluntary work,

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Asthma UK	06/005	John Henderson	wheezing and asthma,
NIHR	CS/01/2008/014	Nadia Micali	Eating and exercise patterns
NIH	n/a	Matt Hickman; Glyn Lewis; Ken Kendler	Smoking, Drugs and alcohol
Department of Transport	PPRO 4/045/004	Alan Emond	Road use and accidents

## Questionnaire 'Life of a 16+ Teenager' (age 16)

Funder	Grant reference	PI	Question topic
Wellcome Trust and MRC	092731	George Davey Smith	How you spend your time, fatigue, major life changes, how you feel about yourself, alcohol use, tobacco and other substances, moods and feelings, eating patterns, different experiences
Department of Transport	PPRO 4/045/004	Alan Emond	Transport and accidents
Department of Health	n/a	Stan Zammitt	Your current feelings
Asthma UK MRC	06/005 G0401540	John Henderson	Occupation, asthma and allergies
NIH	MH087786-01	Nadia Micali	Eating and exercise patterns
Wellcome Trust	GR067797MA	David Gunnell	Deliberate self harm



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### Mother data - Clinic

#### Focus on Mothers 4 (April 2014 to Mar 2015)

Funder	Grant reference	PI	Measures
Lifelong Health and Wellbeing (LLHW) via the MRC	G1001357	Debbie Lawlor	Anthropometry, full body DXA scan, hip DXA scan, pQCT scan, fasting blood sample, blood pressure, menstrual cycle, reproductive health, hormone use, medication use, allergies, grip strength, chair rise and static balance, verbal episodic memory, information processing, working memory, executive function. Glucose, insulin, standard lipids, CRP assays and DNA methylation on a sub-sample using whole blood
Roche Diagnostics	NA	Debbie Lawlor	Assays of multiple sex-hormones and non-sex hormones e.g. vitamin D, thyroid function

#### Focus on Mothers 2 and 3 (Jul 2011 to Jun 2013; Mar 2013 to Mar 2014)

Funder	Grant reference	PI	Measures
Wellcome Trust	WT092830/Z/10/Z	Debbie Lawlor	Anthropometry, full body DXA scan, hip DXA scan, pQCT scan, fasting blood sample, blood pressure, menstrual cycle, reproductive health, hormone use, medication use, allergies, grip strength, chair rise and static balance, verbal episodic memory, information processing, working memory, executive function. Glucose, insulin, standard lipids, CRP assays and DNA methylation on a sub-sample using whole blood
Roche Diagnostics	NA	Debbie Lawlor	Assays of multiple sex-hormones and non-sex hormones e.g. vitamin D, thyroid function

#### Focus on Mothers 1 (Dec 2008 to Jul 2011)

Funder	Grant reference	PI	Measures
British Heart Foundation	SP/07/008/24066	Debbie Lawlor	Anthropometry, full body DXA scan, fasting blood sample, blood pressure, carotid intima-media thickness, menstrual cycle, reproductive health, hormone use, medication use, glucose, insulin, standard lipids, CRP assays
Roche Diagnostics	NA	Debbie Lawlor	Assays of multiple sex-hormones and non-sex hormones e.g. vitamin D, thyroid function

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### Mother data - Questionnaire

#### Questionnaire 'COVID2'

Funder	Grant reference	PI	Question topic
Wellcome Trust and MRC UoB Faculty Research Director's Discretionary Fund	102215/2/13/2	Nic Timpson	General health, seasonal symptoms, activities, impact of the pandemic on well-being and mental health, living arrangements, keyworker/healthcare status, behaviours such as lifestyle changes, food intake, alcohol use and gambling, social contacts, employment and financial impact

#### Questionnaire 'COVID1'

Funder	Grant reference	PI	Question topic
Wellcome Trust and MRC Elizabeth Blackwell Institute for Research, UoB	102215/2/13/2	Nic Timpson	General health, recent travel and seasonal symptoms, activities, impact of the pandemic on well-being and mental health, living arrangements, keyworker/healthcare status

#### Mothers new data Questionnaires 'Your life in 2013'

Funder	Grant reference	PI	Question topic
Wellcome Trust	WT092830/Z/10/Z	Debbie Lawlor	Family and home life, employment and finances, health, reproductive health, sexual health, feelings, alcohol and tobacco, physical activity

### Father data - clinic

#### Focus on Father's (Sept 2011 to Feb 2013)

Funder	Grant reference	PI	Measures
Wellcome Trust and MRC	092731	George Davey Smith	Fasting blood sample, anthropometry, full body DXA scan, 3D face shape scan, blood pressure, carotid intima-media thickness, pulse wave velocity, medication use, allergy questionnaire

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### Father data - Questionnaire

#### Questionnaire 'COVID2'

Funder	Grant reference	PI	Question topic
Wellcome Trust and MRC UoB Faculty Research Director's Discretionary Fund	102215/2/13/2	Nic Timpson	General health, seasonal symptoms, activities, impact of the pandemic on well-being and mental health, living arrangements, keyworker/healthcare status, behaviours such as lifestyle changes, food intake, alcohol use and gambling, social contacts, employment and financial impact

#### Questionnaire 'COVID1'

Funder	Grant reference	PI	Question topic
Wellcome Trust and MRC Elizabeth Blackwell Institute for Research, UoB	102215/2/13/2	Nic Timpson	General health, recent travel and seasonal symptoms, activities, impact of the pandemic on well-being and mental health, living arrangements, keyworker/healthcare status

### Linked routine health & administrative records

#### Index child

Funder	Grant reference	PI	Measures
Wellcome Trust and MRC	092731	George Davey Smith	Measures would include all record linkage to Hospital Episode Statistics Records, Education Records, Child Looked After (CLA) and Child in Need (CIN) records, Geographical Records.
Wellcome Trust	086118	John Macleod	Measures would include all record linkage to Primary Care records, Hospital Episode Statistics Records.
Natural Environment Research Council	R8/H12/83/NE/P01830/1	Andy Boyd	Measures would include all record linkage to location based, geo-spatial and natural environment records.
Department for Education and Skills	EOR/SBU/2002/121	Jean Golding	Measures would include all record linkage to National Pupil Database school-age educational records

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### **GWAS data**

#### **Child**

If your paper uses child GWAS data please also include the following sentence: “GWAS data was generated by Sample Logistics and Genotyping Facilities at Wellcome Sanger Institute and LabCorp (Laboratory Corporation of America) using support from 23andMe.”

#### **Mother**

<b>Funder</b>	<b>Grant reference</b>
Wellcome Trust	WT088806

#### **Father**

<b>Funder</b>	<b>Grant reference</b>
Wellcome Trust and MRC	102215/2/13/2

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### Methylation data

#### Child

Data	Funder	PI	Grant reference
ARIES	BBSRC	Caroline Relton	BBI025751/1 and BB/I025263/1
	IEU grant codes	George Davey Smith	MC_UU_12013/1 & MC_UU_12013/2 & MC_UU_12013/8
	National Institute of Child and Human Development grant	Ted Barker	R01HD068437
	NIH	Hongmei Zhang	5R01AI121226-02
	CONTAMED EU collaborative Project	Andreas Kortenkamp	212502

#### Mother

Data	Funder	PI	Grant reference
ARIES	BBSRC	Caroline Relton	BBI025751/1 and BB/I025263/1
	IEU grant codes	George Davey Smith	MC_UU_12013/1 & MC_UU_12013/2 & MC_UU_12013/8
	LLHW via MRC	Debbie Lawlor	G1001357
	Wellcome Trust	Debbie Lawlor	WT092830/Z/10/Z

#### Father

Data	Funder	PI	Grant reference
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	IEU grant codes	George Davey Smith	MC_UU_12013/1 & MC_UU_12013/2 & MC_UU_12013/8
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### Expression Data and CNV data

Funder	Grant reference
European Research Council	260927
Swiss National Foundation	130342
Wellcome Trust and MRC	092731

### Mitochondrial genotypes (generated by Santi Rodriguez team)

Funder	Grant reference	PI
MRC	MR/K002767/1	Santi Rodriguez

### Whole genome sequencing data (UK10K)

Funder	Grant reference	PI
Wellcome Trust	WT091310	Nic Timpson

### NMR metabolomics data

#### Original Children G1 samples

Funder	Grant reference	PI	Details
MRC	MC_UU_12013/1	George Davey Smith	Completed on stored samples from clinics at age ~9 (non-fasted), ~15 (fasted), ~17 (fasted). <i>Please note that in any publications led by Bristol, Bristol shall incorporate 3 individuals as co-authors every time any results obtained from these NMR-based metabolomics measurements are analysed and incorporated within a publication</i>

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### Mother's G0 samples from FoM1 and FoM2

Funder	Grant reference	PI	Details
NIHR	<a href="#">NF-SI-0611-10196</a>	Debbie Lawlor	Completed on samples from FoM1 and FoM2 B2216. No contractual requirements re authorship

### Assays recently funded and complete on the whole (with relevant samples) cohort

Funder	Grant reference	PI	Measures and details
MRC	G0701603	Debbie Lawlor	25(OH)D, calcium on maternal pregnancy samples; 25 (OH)D, calcium and PTH on children's samples at age ~10 (samples either /or 9 or 11 year clinic) and ~15 years
WT	WT094311MA	Scott Nelson	Cord-blood lipids. B837
Chief Scientific Officer of Scotland	ETM/97	Scott Nelson	Thyroxine, Thyroid Stimulating Hormone, Thyroid antibodies on maternal pregnancy samples.