The UK Coronavirus Job Retention Scheme and diet, physical activity and sleep during the COVID-19 pandemic: Evidence from eight longitudinal population studies

List of additional tables:

Table S1: Description of Studies

Table S2: Ethics and data access statements for each study

Table S3: Sample characteristics by study

Table S4: Employment status change by gender, education, and age-group

Table S5: Meta-analysed risk ratios and heterogeneity estimates for associations between changes in employment status and fruit and vegetable consumption: unadjusted, basic & full adjustment results

Table S6: Meta-analysed risk ratios and heterogeneity estimates for associations between changes in employment status and physical activity: unadjusted, basic & full adjustment results

Table S7: Meta-analysed risk ratios and heterogeneity estimates for associations between changes in employment status and sleep: unadjusted, basic & full adjustment results

Figure S8: Causal pathways blocked under differing levels of adjustment

Table S1: Description of studies

Study Population	Design, Sample Frame and Weighting	2020 Age range (years)	Most recent pre-pandemic survey	Details of 2020 COVID Surveys (response rate)	Analytical N
Age Homogenous Cohorts					
MCS: Millennium Cohort Study	A nationally representative cohort of UK children born between Sept 2000 and Jan 2002 with regular follow-up surveys from birth. Weighted for sampling design, prepandemic attrition and non-response to COVID surveys.		2018	May (26.6%)	1924
•	Cohort of children born in the South-West of England between April 1991 and Dec 1992, with regular follow-up surveys from birth. Weighted for pre-pandemic attrition and non-response to COVID surveys.	27_29	2017-2018	June (17.4%)	1273
NS: Next Steps (known as Longitudinal Study of Young People in England)	A nationally representative sample recruited via secondary schools in England at around age 13 with regular follow-up surveys thereafter. Weighted for sampling design, prepandemic attrition and non-response to COVID surveys.	29-31	2015	May (20.3%)	1493
BCS70: British Cohort Study 1970	A nationally representative cohort of all children born in Great Britain in one week in 1970, with regular follow-up surveys from birth. Weighted for pre-pandemic attrition and non-response to COVID surveys.		2016	May (40.4%)	3050
NCDS: National Child Development Study	A nationally representative cohort of all children born in Great Britain in one week in 1958, with regular follow-up surveys from birth. Weighted for pre-pandemic attrition and non-response to COVID surveys.		2013	May (57.9%)	4195
Age Heterogeneous Studies					
USOC: Understanding Society: the UK Household Longitudinal Survey	A nationally representative longitudinal household panel study, based on a clustered-stratified probability sample of UK households, with all adults aged 16+ in chosen households surveyed annually. Weighted for sampling design, prepandemic attrition, non-response to COVID surveys, and outcome non-response within COVID surveys.	17-66	2018-2019	Two surveys: April (40.3%) & July (31.2%)	6051
ELSA: English Longitudinal Study of Aging	A nationally representative longitudinal study of individuals aged 50+ living in England, with biennial surveys and periodic refreshing of the sample to maintain representativeness. Weighted for sampling design, pre-pandemic attrition, and non-response to COVID surveys.	52-66	2018-2019	Jun-July (75%)	2417
GS: Generation Scotland: the Scottish Family Health Study	A family-structured, population-based Scottish cohort, with participants aged 18-99 recruited between 2006-2011. No weights were available.		2006-2011	April-Jun (21.6%)	2618
	Parents of the ALSPAC(G1) cohort described above, treated as a separate age-heterogenous study population.	44-66	2011-2013	June (12.2%)	2071

Table S2: Ethics and data access statements for each study

The most recent sweeps of the NCDS, BCS70, Next Steps and MCS have all been granted ethical approval by the National Health Service (NHS) Research Ethics Committee and all participants have given informed consent. Data for NCDS (SN 6137), BCS70 (SN 8547), Next Steps (SN 5545), MCS (SN 8682) and all four COVID-19 surveys (SN 8658) are available through the UK Data Service. NSHD data are available on request to the NSHD Data Sharing Committee. Interested researchers can apply to access the NSHD data via a standard application procedure. Data requests should be submitted to mrclha.swiftinfo@ucl.ac.uk; further details can be found at http://www.nshd.mrc.ac.uk/data.aspx. doi:10.5522/NSHD/Q10; doi:10.5522/NSHD/Q10.

Ethical approval was obtained from the **ALSPAC** Ethics and Law Committee and the Local Research Ethics Committees. The study website contains details of all the data that is available through a fully searchable data dictionary and variable search tool: http://www.bristol.ac.uk/alspac/researchers/our-data. ALSPAC data is available to researchers through an online proposal system. Information regarding access can be found on the ALSPAC website (http://www.bristol.ac.uk/media-library/sites/alspac/documents/researchers/data-access/ALSPAC Access Policy.pdf).

All wave of **TwinsUK** have received ethical approval associated with TwinsUK Biobank (19/NW/0187), TwinsUK (EC04/015) or Healthy Ageing Twin Study (H.A.T.S) (07/H0802/84) studies from NHS Research Ethics Committees at the Department of Twin Research and Genetic Epidemiology, King's College London. The TwinsUK Resource Executive Committee (TREC) oversees management, data sharing and collaborations involving the TwinsUK registry (for further details see https://twinsuk.ac.uk/resources-for-researchers/access-our-data/).

The University of Essex Ethics Committee has approved all data collection for the **Understanding Society** main study and COVID-19 waves. No additional ethical approval was necessary for this secondary data analysis. All data are available through the UK Data Service (SN 6614 and SN 8644).

Waves 1-9 of **ELSA** were approved through the National Research Ethics Service, while the COVID-19 Sub-study was approved by the UCL Research Ethics Committee. All participants provided informed consent. All data are available through the UK Data Service (SN 8688 and 5050).

Generation Scotland obtained ethical approval from the East of Scotland Committee on Medical Research Ethics (on behalf of the National Health Service). Reference number 20/ES/0021. Access to data is approved by the Generation Scotland Access Committee. See https://www.ed.ac.uk/generation-scotland/for-researchers/access or email access@generationscotland.org for further details.

Table S3: Sample characteristics by study

		MCS	NS	BCS	NCDS	GS	USOC	ELSA	ALSPAC-G0	ALSPAC-G1
	Total N	1924	1494	3049	4195	2618	6051	2417	2071	1273
	Male	49.1	45.5	48.7	49.4	33.8	48.0	48.0	22.8	29.0
Gender	Male	(46.0-52.2)	(41.2-50.0)	(46.9-50.4)	(47.9-51)	(32.0-35.6)	(46.2-49.9)	(45.6-50.5)	(20.5-25.4)	(25.6-32.7)
Ger	Female	50.9	54.4	51.3	50.6 (49-	66.2	52.0	52.0	77.2	71.0
	Temate	(47.8-54.0)	(50.0-58.8)	(49.6-53.1)	52.1)	(64.4-68.0)	(50.1-53.8)	(49.5-54.4)	(74.6-79.5)	(67.3-74.4)
Ethnicity	White	89.4 (85.9-9.2)	87.3 (84.6-89.6)	NA	NA	99.2 (98.8-99.5)	88.7 (86.7-90.5)	90.2 (88.2-91.8)	98.8 (98.0-99.2)	96.5 (94.2-97.9)
hni	Non-White ethnic	10.6	12.7			0.8	11.3	9.8	1.2	3.5
百	minority	(7.8-14.1)	(10.4-15.4)	NA	NA	(0.5-1.2)	(9.5-13.3)	(8.2-11.8)	(0.7-2.0)	(2.1-5.8)
u	Degree	41.1	47.0	40.3	35.9	52.3	39.8	25.0	20.8	30.6
atic	Degree	(36.6-45.9)	(42.9-51.3)	(38.6-42.1)	(34.4-37.3)	(50.4 - 54.2)	(38.0-41.6)	(23.0-27.1)	(19.0-22.8)	(27.1-34.3)
Education	Less than degree	58.9	53.0	59.7	64.1	47.7	60.2	75.0	79.2	69.4
ш	Less than degree	(54.1-63.4)	(48.7-57.1)	(58.0-61.4)	(62.7-65.6)	(45.8-49.6)	(58.4-62.0)	(73.0-77.0)	(77.2-81.0)	(65.7-72.9)
	Single, with	NA	NA	NA	NA	4.7	4.1	8.7	5.3	1.1
	children	1111	1171	1771	1111	(4.0 - 5.6)	(3.3-5.1)	(7.3-10.5)	(4.0-6.8)	(0.4-2.6)
E E	Couple, with	NA	NA	NA	NA	35.4	25.3	30.8	20.8	11.6
sitio	children					(33.6 - 37.3)	(23.7-26.9)	(28.6-33.2)	(18.7-23.1)	(9.2-14.4)
Household Composition	Alone or Single (no	2.2	11.0	14.2	24.1	13.0	39.5	18.3	6.8	8.3
Co	children)	(1.1-4.3)	(8.9-13.7)	(13.0-15.5)	(22.8-25.4)	(11.8-14.4)	(37.4-41.7)	(16.3-20.4)	(5.4-8.6)	(6.3-10.9)
plo	Living only with	2.1	33.3 (29.4-	17.7	46.7	39.6	31.1	38.4	33.3	46.7
ıseh	partner	(1.4-3)	37.3)	(16.4-19.1)	(45.2-48.2)	(37.7 - 41.5)	(29.5-32.7)	(36.2-40.8)	(30.8-36.0)	(42.8-50.7)
Hot	Partner and others	4.4	33.0	55.8	22.6	NA	NA	NA	NA	NA
		(3.1-6.1)	(29.1-37.3)	(54-57.5)	(21.3-23.8)	1 \1.2	- 1,12			
	Others	91.3	22.6	12.3	6.7	NA	NA	3.7	33.7	34.3
		(8.9- 9.3)	(19.2-26.4)	(11.2-13.5)	(6-7.5)			(3.0-4.7)	(31.1-36.5)	(30.7-37.2)
	England	83.4	96.6 (94.6-	86.4 (85.1-	85.1	0.5	86.9	100.0	NA	NA
	-	(80.6-85.8)	98)	87.6)	(84-86.2)	(0.3-0.8)	(85.5-88.1)			
	Wales	5.7	1.4	5.1	4.4	NA	3.9	NA	NA	NA
ion		(4.5-7.2)	(0.4-3.8)	(4.4-5.9)	(3.8-5.0)	00.4	(3.3-4.5)			
UK Nation	Scotland	8.3 (6.6-10.4)	0.7	7.6	8.3	99.4	7.2	NA	NA	NA
ΩK			(0.2-1.7)	(6.7-8.6)	(7.5-9.2)	(99.1-99.7)	(6.2-8.5)			
	Northern Ireland	1.8	0.1	0.2	0.4	NA	2.0	NA	NA	NA
	0.1 (01 1	(1.4-2.4)	(0-0.2)	(0-0.4)	(0.2-0.6)	D.T.A	(1.7-2.4)	NIA	NT A	NTA
	Other (Channel Islands/Isle of Man)	0.8 (0.1-2.6)	1.2 (0.8-1.9)	0.8 (0.5-1.2)	1.8 (1.5-2.3)	NA	NA	NA	NA	NA
	Pre-Pandemic Mental		25.6	19.2	14.7	12.7	21.8	13.7	18.9	22.9
	alth - High symptoms	18.2	(22-30)	(17.8-20.6)	(13.7-15.8)		(20.2-23.6)	(12.0-15.6)	(16.7-21.4)	22.9 (19.7-26.5)
	e-Pandemic Fair-Poor	(15.6-21.2) 12.9	11.4	14.7	18.3	(11.5 - 14.1)	19.3	22.9	(10.7-21.4)	(19.7-20.3)
Pre	Self-Rated health	(10.6-15.7)	(8.9-14.7)	(13.5-16)		NA	19.3 (17.7-21.0)	(20.7-25.3)	NA	NA
	Sen-Rateu nealth	(10.0-13.7)	(0.7-14./)	(13.3-10)	(17.1-19.5)		(17.7-21.0)	(20.1-23.3)		

Table S4: Employment status change by gender, education, and age-group

	MCS	NS	BCS	NCDS	GS	USOC	ELSA	ALSPAC-G0	ALSPAC-G1
Total N	1924	1494	3049	4195	2618	6051	2417	2071	1273
Age range	18-20	29-31	50	62	27-66	17-66	52-66	50-66	27-29
	%	%	%	%	%	%	%	%	%
Stable Employed	13.6 (11.2-16.3)	60.8 (56.5-64.9)	61.7 (60.0-63.4)	32.8 (31.4-37.6)	62.8 (60.9-64.6)	58.9 (56.9-60.9)	51.1 (48.6-53.6)	58.1 (55.3-60.9)	72.3 (68.5-75.7)
Male	13.9 (10.8-17.7)	69.3 (62.6-75.3)	65.6 (62.9-68.2)	35.1 (33.1-37.2)	65.4 (62.9-68.4)	58.9 (55.6-62.0)	55.3 (51.4-59.1)	57.8 (51.5-63.8)	76.2 (69.9-81.6)
Female	13.3 (10.1-17.4)	53.7 (48.5-58.7)	58.1 (55.8-60.3)	30.5 (28.6-32.4)	61.5 (59.2-63.8)	58.9 (56.7-61.2)	47.2 (44.1-50.3)	58.2 (55.0-61.3)	70.6 (66.1-74.8)
	,	,	Ź		,	,			
Degree	9.1 (5.7-14.1)	70.6 (65-75.6)	70.2 (67.9-72.4)	33.9 (31.9-36)	67.4 (64.8 - 69.8)	71.5 (69.3-73.6)	54.9 (50.5-59.3)	54.4 (49.7-59.0)	77.0 (70.7-82.2)
No Degree	16.7 (13.9-20)	52.1 (46-58.1)	56.0 (53.5-58.5)	32.2 (30.2-34.1)	57.8 (55.0 - 60.5)	50.6 (47.7-53.4)	49.8 (46.9-52.8)	59.1 (55.7-62.3)	70.0 (65.3-74.3)
Age 16-29	13.6 (11.2-16.3)				73.0 (57.0 - 84.6)	46.7 (41.4-52.2)			72.3 (68.5-75.7)
Age 30-49		60.8 (56.5-64.9)			78.2 (75.2 - 80.9)	70.0 (67.0-72.9)			
Age 50-66			61.7 (60.0-63.4)	32.8 (31.4-37.6)	55.5 (53.2 - 57.8)	55.2 (53.0-57.4)	51.1 (48.6-53.6)	58.1 (55.3-60.9)	
Furloughed	16.9 (14-20.1)	25.1 (21.5-29)	24.7 (23.2-26.2)	21.1 (19.9-22.4)	8.4 (7.4-9.5)	14.5 (13.0-16.0)	13.5 (11.9-15.2)	12.8 (10.9-15.0)	16.1 (13.3-19.3)
Male	13.5 (9.5-18.6)	22.6 (17.3-29)	24.4 (22- 26.8)	25 (23.2-27)	10.1 (8.3-12.2)	14.7 (12.5-17.2)	12.8 (10.4-15.5)	13.5 (9.4-19.0)	13.3 (9.2-19.1)
Female	20.2 (16.8-24.1)	27.1 (22.5-32.6)	24.9 (23.0-27.0)	17.3 (15.7-18.9)	7.5 (6.3-8.8)	14.2 (12.7-15.9)	14.1 (12.1-16.4)	12.6 (10.5-15.1)	17.1 (13.8-21.2)
Degree	10.8 (8.2-14.1)	18.5 (14.3-23.5)	20.4 (18.5-22.5)	13.5 (12-15)	5.0 (4.0-6.3)	10.0 (8.6-11.5)	11.5 (9.0-14.6)	7.8 (5.6-10.9)	14.3 (9.9-20.3)
No Degree	21.2 (17.3-25.7)	30.9 (25.5-36.9)	27.5 (25.3-29.8)	25.4 (23.6-27.6)	12.0 (10.3 - 13.9)	17.4 (15.3-19.7)	14.1 (12.2-16.2)	14.1 (11.8-16.8)	16.9 (13.6-20.9)

-	16.9				2.7	17.6			16.1
Age 16-29	(14-20.1)				(0.5-13.8)	(14.1-21.7)			(13.3-19.3)
	,				,	, ,			, ,
Age 30-49		25.1			10.5	14.9			
		(21.5-29)			(8.5-12.8)	(12.8-17.2)			
Age 50-66			24.7	21.1	7.5	11.9	13.5	12.8	
			(23.2-26.2)	(19.9-22.4)	(6.4-8.8)	(10.5-13.3)	(11.9-15.2)	(10.9-15.0)	
No Longer	3.7	2.5	1.9	2.8	3.3	3.3	2.0	10.3	5.4
Employed	(2.6-5.2)	(1.6-3.8)	(1.5-2.5)	(2.4-3.4)	(2.7- 4.1)	(2.6-4.2)	(1.4-2.7)	(8.8-12.1)	(3.8-7.5)
	4.6	1.5	2.0	2.0	2.4	2.0	2.2	10.6	5.2
Male	4.6 (2.8-7.4)	1.5	2.0	3.0	3.4	3.8	2.2 (1.3-3.6)	10.6	5.3
	` ′	(0.8-2.8)	(1.3-3.0)	(2.3-3.8)	(2.4-4.8)	(2.6-5.6)	` /	(7.6-14.6)	(2.9-9.3)
Female	2.8	3.3	1.8	2.7 (2.1-3.5)	3.3 (2.5-4.2)	2.8 (2.2-3.7)	1.8 (1.2-2.6)	10.3 (8.6-12.2)	5.4 (3.6-8.1)
	(2.0-4.0)	(1.9-5.6)	(1.3-2.6)	(2.1-3.3)	(2.3-4.2)	(2.2-3.1)	(1.2-2.0)	(8.0-12.2)	(3.0-6.1)
	4.2	3.2	1.7	2.8	3.3	3.1	1.5	12.7	4.9
Degree	(2.8-6.4)	(1.7-5.8)	(1.2 - 2.5)	(2.2-3.6)	(2.5-4.4)	(2.3-4.1)	(0.9-2.7)	(10.1-16.1)	(2.9-8.3)
	3.3	1.8	2.0	2.9	3.4	3.4	2.1	9.7	5.6
No Degree	(2-5.5)	(1-3.1)	(1.4-2.9)	(2.2-3.7)	(2.5-4.5)	(2.4-4.9)	(1.5-3.1)	(8.0-11.7)	(3.6-8.5)
	(2 0.0)	(1 3.1)	(1.1 2.7)	(=:= :::)	(2.6)	(211 113)	(1.6 6.1)	(6.6 11.7)	(8.8 8.6)
1.500	3.7					5.1			5.4
Age 16-29	(2.6-5.2)					(3.4-7.7)			(3.8-7.5)
Age 30-49		2.5			2.8	2.6			
Age 30-49		(1.6-3.8)			(1.9-4.2)	(1.5-4.6)			
Age 50-66			1.9	2.8	3.6	2.8	2.0	10.3	
			(1.5-2.5)	(2.4-3.4)	(2.8-4.6)	(2.2-3.5)	(1.4-2.7)	(8.8-12.1)	
Stable	5.6	1.5	0.9	2.0	0.5	2.0	3.2	5.1	2.0
Unemployed	(3.4-9.0)	(0.7-2.8)	(0.6-1.3)	(1.6-2.5)	(0.3-0.8)	(1.4-2.8)	(2.2-4.4)	(4.1-6.5)	(1.3-3.1)
Male	8.7	1.1	0.2	2.5	0.8	1.8	4.0	7.3	2.4
Iviaic	(4.6-15.8)	(0.4-2.8)	(0.03-0.7)	(1.9-3.2)	(0.4-1.6)	(1.0-3.2)	(2.5-6.3)	(4.5-11.6)	(1.2-4.9)
Female	2.6	1.8	0.8	1.6	0.3	2.2	2.4	4.5	1.8
- Ciliale	(1.6-4)	(0.6-4.1)	(0.4-1.3)	(1.2-2.2)	(0.2-0.8)	(1.5-3.3)	(1.5-3.9)	(3.5-5.8)	(1.0-3.2)
	2.2	0.7	0.7	1.5	0.2	0.4	2.5	0.2	1.1
Degree	2.3	0.7	0.7	1.6	0.3	0.4	2.5	9.2	1.1
	(1.1-4.3)	(0.2-2.1)	(0.4 - 1.3)	(1.1-2.3)	(0.1-0.7)	(0.2-0.7)	(1.1-5.3)	(6.9-12.1)	(0.4-3.1)
No Degree	7.9	2.1	1.1	2.3	0.7	3.1	3.4	4.1	2.4

	(4.5-13.4)	(0.9-4.6)	(0.6-1.7)	(1.7-3.0)	(0.4-1.4)	(2.1-4.4)	(2.3-4.9)	(2.9-5.6)	(1.5-3.9)
Age 16-29	5.6 (3.4-9.0)					3.5 (1.8-6.9)			2.0 (1.3-3.1)
Age 30-49		1.5 (0.7-2.8)			0.1 (0.0-0.7)	1.3 (0.9-2.1)			
Age 50-66			0.9 (0.6-1.3)	2.0 (1.6-2.5)	0.7 (0.4-1.2)	1.7 (1.1-2.5)	3.2 (2.2-4.4)	5.1 (4.1-6.5)	
Became Employed	1.2 (0.7-2.0)	0.9 (0.5-1.7	0.5 (0.0-1.0)	0.7 (0.5-1.0)	0.6 (0.3 - 0.9)	1.1 (0.8-1.6)	0.4 (0.2-0.7)	0.1 (0.0-0.4)	1.1 (0.6-2.0)
Male	1.3 (0.5-2.8)	1.0 (0.4-2.4)	0.2 (0.0-0.7)	0.8 (0.5-1.4)	0.2 (0.1-0.8)	1.3 (1.0-2.2)	0.2 (0.0-0.6)	NA	1.6 (0.6-4.3)
Female	1.2 (0.6-2.2)	0.8 (0.3-2.0)	0.8 (0.5-1.3)	0.5 (0.3-1.0)	1.0 (0.6-1.7)	1.0 (0.6-1.6)	0.5 (0.3-1.2)	0.1 (0.0-0.5)	0.9 (0.4-1.9)
Degree	1.0 (0.2-2.1)	0.7 (0.4-1.5)	0.6 (0.3-1.1)	0.9 (0.5-1.4)	0.5 (0.2-1.1)	1.5 (0.9-2.4)	0.5 (0.2-1.7)	NA	2.2 (1.0-4.5)
No Degree	1.4 (0.7-2.6)	1.1 (0.4-2.6)	0.5 (0.2- 0.9)	0.6 (0.3-1)	0.6 (0.3-1.3)	0.8 (0.5-1.5)	0.3 (0.1-0.7)	0.1 (0.0-0.5)	0.6 (0.2-1.8)
Age 16-29	1.2 (0.7-2.0)				2.7 (0.5-13.8)	1.4 (0.6-3.0)			1.1 (0.6-2.0)
Age 30-49		0.9 (0.5-1.7			0.2 (0.0-0.9)	1.2 (0.7-2.1)			
Age 50-66			0.5 (0.0-1.0)	0.7 (0.5-1.0)	0.7 (0.4-1.2)	0.9 (0.6-1.4)	0.4 (0.2-0.7)	0.1 (0.0-0.4)	
Stable Non-	59.0	9.3	10.3	40.6	24.4	20.2	30.0	13.5	3.3
Employed	(53.9-63.9)	(7.1-12.0)	(9.2-11.4)	(39.1-42.1)	(22.8 - 26.1)	(18.6-22.0)	(27.9-32.2)	(11.7-15.6)	(2.0-5.1)
Male	58.1 (51.0-64.8)	4.4 (2.3-8.1)	6.8 (5.5-8.3)	33.5 (31.5-35.6)	20.1 (17.6-22.9)	19.6 (16.8-22.7)	25.6 (22.5-29.1)	10.8 (7.6-15.2)	1.1 (0.5-2.4)
Female	59.9 (55.5-64.2)	13.4 (10.0-17.5)	13.6 (12.1-15.2)	47.4 (45.3-49.5)	26.6 (24.6-28.8)	20.8 (19.0-22.7)	34.0 (31.2-36.9)	14.3 (12.2-16.7)	4.1 (2.5-6.7)
Degree	72.0	6.3	6.3	47.3	23.5	13.5	29.1	15.7	0.5

	(67.1-77.6)	(4.0-10.0)	(5.2-7.7)	(45.1-49.5)	(21.3-25.8)	(12.1-15.1)	(25.4-33.1)	(12.4-19.7)	(0.2-1.3)
No Degree	49.4	12.0	12.9	36.8	25.5	24.6	30.3	12.9	4.4
No Degree	(43.7-55.2)	(8.6-16.3)	(11.3-14.7)	(34.8-38.8)	(23.1-28.0)	(22.1-27.3)	(27.8-33.0)	(10.8-15.4)	(2.7-7.1)
	59.0				21.6	25.6			3.3
Age 16-29	(53.9-63.9)				(11.4-37.2)	(20.6-31.4)			(2.0-5.1)
Age 30-49		9.3			8.1	10.0			
Age 30-49		(7.1-12.0)			(6.4-10.2)	(8.0-12.2)			
			10.3	40.6	32.0	27.6	30.0	13.5	
Age 50-66			(9.2-11.4)	(39.1-42.1)	(29.9-34.2)	(25.7-29.5)	(27.9-32.2)	(11.7-15.6)	

Table S5: Meta-analysed risk ratios and heterogeneity estimates for associations between changes in employment status and fruit and vegetable consumption: unadjusted, basic & full adjustment results

Ref Cat: Stable Employed	Currently ea	ts ≤2 fruit &	veg portions	Fewer frui	t and vegetab	le portions	More fruit and vegetable portions			
	Unadjusted	Basic	Full	Unadjusted	Basic	Full	Unadjusted	Basic	Full	
Furloughed	1.22	1.13	0.97	1.01	0.97	0.96	1.19	1.22	1.22	
ruriougileu	[1.10-1.36]	[1.00-1.26]	[0.87-1.09]	[0.91-1.11]	[0.84-1.12]	[0.87-1.08]	[1.02-1.40]	[1.04-1.44]	[1.04-1.43]	
I^2 %	0.0	23.59	41.83	3.65	28.85	8.96	52.93	54.04	52.46	
No longer	1.05	1.03	0.95	0.79	0.75	0.74	1.01	1.02	1.02	
employed	[0.75-1.46]	[0.80-1.33]	[0.81-1.12]	[0.49-1.29]	[0.44-1.28]	[0.44-1.22]	[0.82, 1.25]	[0.83-1.26]	[0.83-1.25]	
I ² %	47.44	31.02	0.0	62.10	68.10	64.10	0.00	0.83	0.00	
Stable	1.66	1.35	1.00	1.11	1.01	0.92	1.10	1.14	1.16	
Unemployed	[1.32-2.08]	[1.07-1.70]	[0.83-1.20]	[0.58-2.12]	[0.49-2.11]	[0.47-1.81]	[0.65-1.85]	[0.72-1.78]	[0.82-1.63]	
I ² %	0.0	0.0	0.00	67.66	76.98	76.02	58.09	45.08	21.37	

^{&#}x27;Basic' adjustment includes age, sex, ethnicity, education, UK nation, and household composition. 'Full' adjustment additionally includes pre-pandemic measures of mental health, self-rated health, diet, exercise and sleep. Pre-pandemic diet was not included in models of dietary change (fewer or more fruit and vegetable portions).

Table S6: Meta-analysed risk ratios and heterogeneity estimates for associations between changes in employment status and physical activity: unadjusted, basic & full adjustment results

Ref Cat: Stable Employed	≤3 days a w	eek of at least	30m exercise	Less PA/fev	ver days of +3	0m exercise	More PA/more days of +30m exercise			
	Unadjusted Basic Full			Unadjusted	Basic	Full	Unadjusted	Basic	Full	
Furloughed	0.92	0.89	0.85	1.08	1.08	1.07	1.15	1.17	1.19	
C	[0.81-1.05]	[0.78-1.02]	[0.75-0.97]	[1.01-1.15]	[0.98-1.18]	[0.97-1.17]	[1.01-1.31]	[1.03-1.34]	[1.04-1.36]	
I^2 %	52.16	57.74	58.73	0.00	34.92	38.53	71.62	74.49	75.78	
No longer	1.10	1.10	1.02	1.06	1.08	1.07	1.11	1.12	1.12	
employed	[0.88-1.36]	[0.90-1.34]	[0.84-1.24]	[0.94-1.19]	[0.94-1.23]	[0.93-1.23]	[0.99-1.24]	[0.99-1.25]	[1.00-1.26]	
I^2 %	47.03	37.26	40.11	0.00	13.61	21.00	0.00	3.48	0.17	
Stable	1.63	1.52	1.15	0.83	0.83	0.85	0.99	1.10	1.12	
Unemployed	[1.20-2.22]	[1.15-2.02]	[0.90-1.47]	[0.67-1.02]	[0.68-1.02]	[0.67-1.07]	[0.75-1.31]	[0.93-1.32]	[0.95-1.33]	
I^2 %	68.62	59.09	62.25	6.23	0.00	17.33	46.29	1.46	0.00	

^{&#}x27;Basic' adjustment includes age, sex, ethnicity, education, UK nation, and household composition. 'Full' adjustment additionally includes pre-pandemic measures of mental health, self-rated health, diet, exercise and sleep. Pre-pandemic exercise was not included in models of exercise change (less or more PA/days of +30m exercise).

Table S7: Meta-analysed risk ratios and heterogeneity estimates for associations between changes in employment status and sleep: unadjusted, basic & full adjustment results

Ref Cat:	Sleep leve	el: <6 hours/>9	9 hours	Sleep cha	nge: becomes	abnormal	Sleep change: becomes normal (from			
Stable Employed				(from 6-9h	to outside nor	mal hours)	outside 6-9h to within)			
	Unadjusted Basic Full			Unadjusted	Basic	Full	Unadjusted	Basic	Full	
Furloughed	1.45	1.33	1.28	1.61	1.51	1.46	1.81	1.81	1.78	
	[1.01-2.08]	[0.94-1.89]	[0.92-1.78]	[1.11-2.34]	[1.07-2.14]	[1.03-2.07]	[1.08-3.02]	[1.04-3.15]	[1.03-3.07]	
I^2 %	85.11	84.51	84.34	77.38	74.71	75.13	70.60	75.87	75.70	
No longer	1.50	1.51	1.38	1.54	1.52	1.44	1.83	1.75	1.53	
employed	[0.86-2.60]	[0.90-2.52]	[0.81-2.36]	[0.90-2.64]	[0.91-2.57]	[0.84-2.49]	[1.11-3.00]	[1.06-2.89]	[0.93-2.50]	
I^2 %	82.77	80.42	82.29	70.75	68.11	70.63	18.30	13.30	4.52	
Stable	2.46	2.09	1.44	1.93	1.77	1.45	1.38	1.35	1.13	
Unemployed	[1.23-4.88]	[1.13-3.87]	[0.69-2.99]	[1.08-3.46]	[1.05-2.99]	[0.84-2.51]	[0.23-8.39]	[0.16-11.4]	[0.10-12.6]	
I^2 %	83.19	79.03	85.86	40.46	32.29	33.89	68.82	78.73	85.65	

Ref Cat: Stable Employed	Sleep char	nge: more than	n before	Sleep change: less than before				
	Unadjusted	Basic	Full	Unadjusted	Basic	Full		
Furloughed	1.48	1.63	1.63	1.03	0.91	0.90		
Furloughed	[1.18-1.85]	[1.39-1.91]	[1.39-1.91]	[0.85-1.24]	[0.76-1.10]	[0.75-1.07]		
I^2 %	89.43	80.01	80.20	73.84	71.99	70.47		
No longer	1.34	1.48	1.45	1.16	1.02	0.99		
employed	[1.13-1.59]	[1.27-1.73]	[1.24-1.70]	[0.93-1.44]	[0.88-1.20]	[0.85-1.16]		
I^2 %	37.57	36.31	39.21	51.59	0.00	0.00		
Stable Unamplexed	1.31	1.31	1.30	1.17	1.15	1.08		
Stable Unemployed	[1.07-1.60]	[1.08-1.60]	[1.06-1.59]	[0.88-1.55]	[0.87-1.51]	[0.85-1.37]		
I ² %	3.95	2.16	5.00	44.04	39.75	21.23		

^{&#}x27;Basic' adjustment includes age, sex, ethnicity, education, UK nation, and household composition. 'Full' adjustment additionally includes pre-pandemic measures of mental health, self-rated health, diet, exercise and sleep. Pre-pandemic sleep was not included in models of sleep change (all outcomes except sleep level).

Figure S8: Causal pathways blocked under differing levels of adjustment

