SUPPORTING INFORMATION

Changes in physical activity, diet and body weight across the education and employment transitions of early adulthood: A systematic review and meta-analysis.

Eleanor M. Winpenny, Miranda Smith, Tarra Penney, Campbell Foubister, Justin M. Guagliano, Rebecca Love, Chloe Clifford Astbury, Esther M. F. van Sluijs, Kirsten Corder.

Address for correspondence: Eleanor Winpenny, MRC Epidemiology Unit, University of Cambridge School of Clinical Medicine, Box 285, Institute of Metabolic Science, Cambridge Biomedical Campus, Cambridge, CB2 0QQ, U.K. Telephone: +44 (0)1223 769150 Fax: +44 (0)1223 330316 Email: ew470@cam.ac.uk

Table S1: Search terms.						
1	Diet outcomes	food*[Title/Abstract] OR beverage*[Title/Abstract] OR nutrient*[Title/Abstract] OR macronutrient*[Title/Abstract] OR "energy intake"[Title/Abstract] OR diets[Title/Abstract] OR "dietary"[Title/Abstract] OR nutrition[Title/Abstract] OR nutritional[Title/Abstract] OR fruits[Title/Abstract] OR fruits[Title/Abstract] OR vegetables[Title/Abstract] OR fruits[Title/Abstract] OR vegetables[Title/Abstract] OR grain*[Title/Abstract] OR meat[Title/Abstract] OR cereal*[Title/Abstract] OR "soft drink*"[Title/Abstract] OR soda[Title/Abstract] OR SSB[Title/Abstract] OR SSB[Title/Abstract] OR salt[Title/Abstract] OR sugar*[Title/Abstract] OR "Beverages"[Mesh] OR diet[Mesh] OR "Nutrition Surveys"[Mesh] OR "Diet Records"[Mesh] OR "Dietary Fats"[Mesh] OR "Dietary Proteins"[Mesh] OR "Dietary Carbohydrates "[Mesh] OR "Healthy Diet"[Mesh]				
	Eating Behaviour outcomes	OR cook*[Title/Abstract] OR "food preparation"[Title/Abstract] OR "eating behaviour"[Title/Abstract] OR "eating behavior"[Title/Abstract] OR meal*[Title/Abstract] OR snack*[Title/Abstract] OR "dining out"[Title/Abstract] OR breakfast[Title/Abstract] OR dinner[Title/Abstract] OR lunch[Title/Abstract] OR supper[Title/Abstract] OR "fast food"[Title/Abstract] OR "fast-food"[Title/Abstract] OR restaurant[Title/Abstract] OR "take-away"[Title/Abstract] OR takeaway[Title/Abstract] OR "eating out"[Title/Abstract] OR "away from home"[Title/Abstract] OR "out of home"[Title/Abstract] OR "away-from-home"[Title/Abstract] OR "out-of-home"[Title/Abstract] OR "home-cook*"[Title/Abstract] OR "home prepar*"[Title/Abstract] OR "home-cook*"[Title/Abstract] OR "home-prepar*"[Title/Abstract] OR "home-prepar*"[Title/Abstract]				
	Physical activity outcomes	OR "physical activity" [Title/Abstract] OR "physical activities" [Title/Abstract] OR "physically active" [Title/Abstract] OR "active transport" [Title/Abstract] OR "active travel" [Title/Abstract] OR exercise* [Title/Abstract] OR cycle [Title/Abstract] OR cycling [Title/Abstract] OR walk* [Title/Abstract] OR sport* [Title/Abstract] OR "energy expenditure" [Title/Abstract] OR MVPA [Title/Abstract] OR "vigorous activity" [Title/Abstract] OR VPA [Title/Abstract] OR "moderate activity" [Title/Abstract] OR "light activity" [Title/Abstract] OR MPA [Title/Abstract] OR "intensity activity" [Title/Abstract] OR "LPA" [Title/Abstract] OR "strenuous activity" [Title/Abstract] OR "Exercise" [MeSH] OR "Sports" [Mesh]				

	Adiposity outcomes	OR "BMI" [Title/Abstract] OR "weight gain" [Title/Abstract] OR "weight loss" [Title/Abstract] OR "body weight" [Title/Abstract] OR "body mass" [Title/Abstract] OR "change in weight" [Title/Abstract] OR "weight change" [Title/Abstract] OR "waist circumference" [Title/Abstract] OR anthropometry [Title/Abstract] OR anthropometric [Title/Abstract] OR "fat mass" [Title/Abstract] OR "lean mass" [Title/Abstract] OR "body composition" [Title/Abstract] OR skinfold [Title/Abstract] OR overweight [Title/Abstract] OR obesity [Title/Abstract] OR adiposity [Title/Abstract]
2	Longitudinal	longitudinal[Title/Abstract] OR cohort[Title/Abstract] OR prospective[Title/Abstract] OR "follow-up*"[Title/Abstract] OR "follow up"[Title/Abstract] OR "Follow-Up Studies"[Mesh] OR "Prospective Studies"[Mesh] OR "Longitudinal Studies"[Mesh] OR "Cohort Studies"[Mesh] OR "life-course"[Title/Abstract] OR "life course"[Title/Abstract] OR "repeated measure"[Title/Abstract] OR "repeated-measure"[Title/Abstract]
3	Transition	"Further education" [Title/Abstract] OR "Higher education" [Title/Abstract] OR "entering education" [Title/Abstract] OR "leaving education" [Title/Abstract] OR "leaving school" [Title/Abstract] OR "school leaver*" [Title/Abstract] OR college [Title/Abstract] OR university [Title/Abstract] OR freshman [Title/Abstract] OR freshmen [Title/Abstract] OR Graduate [Title/Abstract] OR "first job" [Title/Abstract] OR employment [Title/Abstract] OR "first job" [Title/Abstract] OR "starting work" [Title/Abstract] OR "moving house" [Title/Abstract] OR "change of address" [Title/Abstract] OR "residential relocation" [Title/Abstract] OR "geographic* mobility" [Title/Abstract] OR "geographic relocation" [Title/Abstract] OR "residential relocation" [Title/Abstract] OR "residential stability" [Title/Abstract] OR
		OR "living arrangements" [Title/Abstract] OR cohabit* [Title/Abstract] OR marriage [Title/Abstract] OR "marital status" [Title/Abstract] OR parity [Title/Abstract] OR parous [Title/Abstract] OR childbearing [Title/Abstract] OR postpartum [Title/Abstract] OR "post-partum" [Title/Abstract] OR "first child*" [Title/Abstract] OR "having children" [Title/Abstract] OR "having a child" [Title/Abstract] OR trajector* [Title/Abstract] OR "transition*" [Title/Abstract] OR "life transition" [Title/Abstract] OR "life events" [Title/Abstract] OR "Life Change Events" [Mesh] OR "Marital Status" [Mesh] OR "Employment" [Mesh]
4	Additional filters	English[lang] NOT Review[ptyp] NOT Neoplasm[Mesh] Humans (filter)
5		1 AND 2 AND 3 AND 4
		tory was originally designed for PubMed and then adapted as necessary for the other

Note. The search strategy was originally designed for PubMed and then adapted as necessary for the other databases.

Table S2: Quality assessment tool for longitudinal observational studies of diet.

Item	Physical	Diet	Anthropometry (Body				
	activity/sedentary		weight, BMI, waist				
	behaviour		circumference)				
A. Study population and participation (baseline): the study sample represents the population of interest on key characteristics.							
1. Adequate	Item was scored positively if three of the following points were mentioned: (i)						
description of sampling frame, recruitment	description of how participants were sampled (e.g. sourced from the electoral roll, all schools in state or country, or from a larger study); (ii) description of						
methods, period of	specific methods used for recruitment (e.g. newsletters, phone call,						
recruitment and place of recruitment	advertising); (iii) period of recruitment provided (e.g. March 2010); or (iv) place of recruitment detailed (e.g. Wollongong, Australia, Glasgow)						
of recruitment	or recruitment detailed (e.g. wonlongong, Australia, Glasgow)						
2. Adequate							
study sample for key	description of baseline (i) number of participants; (ii) age (mean age or % at each age); and (iii) gend study sample for key						
characteristics							
B. Study attrition: loss to represent the sample)	B. Study attrition: loss to follow-up not associated with key characteristics (i.e. the study data adequately represent the sample)						
3. Provision of the	Item was scored positive	ely if the number or percent	tage of participants at each				
exact number of	time point was detailed						
follow-up	participants at each follow-up						
measurement(s)							
4. Provision of exact	Item was scored positively if detail about the follow-up duration (e.g. 1 year, 6						
information on follow- up duration	years) was provided						
5. Presentation of data		ely if those who dropped ou					
showing non-selective non-response during	on key characteristics to those who were retained at follow-up.						
follow-up							
measurement(s)							
C. Data collection							
6. Adequate	Objective measures:	Comprehensive	Objective measurement:				
description of methods of data collection	Item was scored positively if at least	measurement of diet: item was scored	item was scored positively if both of the following				
or data conection	three of the following	positively if both of the	points were mentioned:				
	points were	following points were	(i) type of instrument; (ii)				
	mentioned: (1) type of instrument; (2) length	mentioned: (i) type of instrument;	who performed the measurements.				
	of epoch; (3) number	(ii) number of days					
	of days worn; (4) number of hours/day	measured.					
	worn; (5) number of						
.		1	1				

	minutes monitored; (6) description of monitor placement; and (7) data reduction methods described Subjective measures: Item was scored positively if the instrument was described including the number of items.	Questionnaire measures: Item was scored <i>positively</i> if the questions used and response options were described in full.	Self-reported: N/A	
7. Adequate measurement method	Item was scored positively if physical activity was measured objectively and/or sedentary behaviour was measured by proxy report, including provision of validity and/or reliability data and a reference	Item was scored positively if a comprehensive diet measurement instrument (e.g. diet record, 24-hr recall, FFQ) was used. O points scored for any other method e.g. questions in a questionnaire	Item was scored positively if objective measurement, 0 if self-reported	
8. Data processing	Item was scored positively if the cut points were referenced (subjective measures were given an N/A, which meant that those studies were scored using a total of 9 rather than 10)	Item was scored positively if a description of adjustment for misreporting was included.	N/A	
D. Data analyses			l	
9. Adequate description of analysed sample (inclusion and exclusion criteria)	Item was scored positively if details of the samples included in the final analysis were included (e.g. all participants; participants with complete data)			
10. The analysed sample was at least medium in size	Item was scored <i>positively</i> if analysed sample was ≥250 participants			

When multiple outcomes were assessed by a single paper, a positive score was given if any of the outcomes scored positively.

Scores for each item were summed and a paper was deemed to have high methodologic quality if it scored ≥7.