Additional File 3: Characteristics of study by 4 outcome categories:

Author &	Location	Participants (n,	Design (incl. stats	Exposure incl.	Main outcomes	Main findings	Newcastle
year (incl.	(national	population, age,	methods)	year(s)			Ottawa Scale
citation)	and local if	dataset used,					Score
	relevant)	other character-					
		istics)					
Energy Intak	e						
Bonaccio	National:	Moli-Sani study.	Serial cross-sectional	Exposure:	Calorie intake	Mean calories 2005-2006: 2228 ± 675.	Selection total:
et al, 2014	Italy	Adults aged	study of participants	Commence-	(means + SD)	Mean calories 2007-2010: 2101 ± 614	3
Ref:	Local: the	over 35 (mean	recruited before and	ment of GR	using Italian EPIC	p-value <0.0001	Comparability
	Molise	age 54.4);	after the recession.	(time)	food frequency		total: 2
	region	percentage	Means and p-values	Time point 1:	questionnaire.		Outcomes
		male: 47.30%.	of calorie intake	Recruited in			total: 2
		Randomly	adjusted for age and	2005-2006			Total score: 7
		recruited.	sex.	(n=6999)			
		Total n=21,001.		Time point 2:			
				Recruited in			
				2007-2010			
				(n=14,002)			
Griffith et	National: UK	Kantar	Longitudinal.	Exposure:	Percentage	1) Percentage change in calories:	Selection total:
al, 2013	Local: n/a	Worldpanel	Used three time-	Commence-	change in calories	Single non-pensioners:	3
		data.	period dummies and	ment of GR	and real	2008-09: -0.3, 2010-12: 0.2	Comparability
		N=15,850.	controlled for month	(time)	expenditure per	Single pensioners:	total: 2
			and household fixed	Time point 1:	calorie from	2008-09: -3.5, 2010-12: -5.6	Outcomes
			effects.	2005-2007	2005–07 to 2008–	Couple non-pensioners:	total: 2
			Percentage change in	Time point 2:	09 and 2010–12.	2008-0: -1.0, 2010-12: -3.7	Total score: 7
			calories and real	2008-2009	Percentage	Couple pensioners:	
			expenditure per	Time point 3:	change in calorie	2008-09: -2.2, 2010-12: -4.1	
			calorie controlled for		density.	Multi-adult households:	
			month effects and		Participants	2008-09: -1.1, 2010-12: -4.1	
			permanent		record spending	Single parents:	
			differences in real		on all grocery	2008-09: -5.4, 2010-12: -7.5	
			expenditure per		purchases	2+ adults, young children:	
			calorie across		brought into the	2008-09: -5.3, 2010-12: -9.8	
			households.		home via an	2+ adults, older children:	

The change in calorie electronic hand- 2008-09: –3.6. 2010-12: –8.4	
density was divided	
into a 'between'	
linto a between the line nonice. 2008-03. –1.8, 2010-12. –3.0	foront
Component (the All differences are statistically di	freient
change that was due	from
to people Single non-pensioners' (2008–05	and
substituting between 2010–12)	
food types) and a Percentage change in real exper	diture
'within' component per calorie:	
(the change that was Single non-pensioners:	
due to people 2008-09: -3.0, 2010-12: -5.7	
substituting within Single pensioners:	
food types). 2008-09: -1.3, 2010-12: -3.6	
Couple non-pensioners:	
2008-09: -2.3, 2010-12: -5.1	
Couple pensioners:	
2008-09: -1.0, 2010-12: -4.1	
Multi-adult households:	
2008-09: -1.5, 2010-12: -4.2	
Single parents:	
2008-09: -2.5 2010-12: -6.6	
2+ adults, young children:	
2008-09: -4.3. 2010-12: -9.0	
2+ adults. older children:	
2008-09: -2.1, 2010-12: -4.9	
All households:	
2008-09: -2.1, 2010-12: -5.2	
All changes are statistically differ	ent
from zero at the 99% level.	
Percentage change in calorie de	nsity:
Single non-pensioners: Actual: 4	4.
between: 2.9. within: 1.6	,
Single pensioners: Actual 5.4.	
hetween: 4.6 within: 0.1	
	7

						Couple pensioners: Actual 4.9, between: 4.1, within: 0.7 Multi-adult households: Actual 4.3, between: 3.0, within: 1.1 Single parents: Actual 5.3, between: 3.3, within: 1.6 2+ adults, young children: Actual 6.6, between: 4.6, within: 1.9 2+ adults, older children: Actual 3.6, between: 1.5, within: 1.9 All changes are statistically different from zero at the 99% level	
Griffith et al, 2016a	National: UK Local: n/a	Kantar Worldpanel data for UK households. n=14,694.	Longitudinal study. Change in calories. Price paid per calorie is denoted as $P=P(e, z, \phi)$ Where <i>e</i> denotes shopping effort, <i>z</i> is the characteristics of the shopping basket (monthly purchases) and ϕ denotes other factors including common time- varying factors, regional time-varying factors, household level characteristics and time-varying household time- varying character- istics.	Exposure: Commence- ment of GR (time). Time point 1: 2005-2007, Time point 2: 2010-12	Calories purchased (per adult equivalent per day) and average price paid per calorie. Outcome data of food purchases from all types of stores using an electronic hand- held scanner in the home.	apart from 'Single pensioner – Within'. Mean calorie intake: 2005-2007: 2300, 2010-2012: 2274, percent change: - 1.10. Pre-school children: 2005-7: 2011, 2010-12: 1931, Percentage change: - 3.99 School-age children: 2005-7: 2041, 2010-12: 1948, Percentage change: - 4.57 Adults: 2005-7: 2288, 2010-12: 2295, Percentage change: 0.29 Pensioners: 2005-7: 2530, 2010-12: 2497, Percentage change: - 1.32 Working high-income: 2005-7: 2028, 2010-12: 2011, Percentage change: - 0.86 Working mid-income: 2005-7: 2150, 2010-12: 2099, Percentage change: - 2.37 Working low-income: 2005-7: 2170, 2010-12: 2131,	Selection total: 3 Comparability total: 2 Outcomes total: 2 Total score: 7

			Developments and all second second second	
			Percentage change: - 1.81	
			Unemployed:	
			2005-7: 2271, 2010-12: 2230,	
			Percentage change: -1.78	
			Price paid per calorie:	
			Change in price paid per calorie: 17.74	
			(log points) (19.4%)	
			Change in price paid per calorie	
			without change in shopping behaviour:	
			20.34 log points (22.5%)	
			Change in price paid per calorie with	
			changes in within-household	
			behaviour: - 2.59 (3.1% reduction)	
			Contribution made by changes in	
			behaviour:	
			Shopping effort: - 1.06	
			(40.8% reduction)	
			Number of shopping trips: - 0.02	
			(0.8% reduction)	
			Number of chains visited: 0.03	
			(1.2% increase)	
			Savings from discounter: - 0.09	
			(2 E% roduction)	
			(3.5% reduction)	
			(27.6% reduction)	
			(37.0% reduction)	
			Tataly 0.02 (25.9% reduction)	
			Proto: -0.93 (35.8% reduction)	
			Protein: - 0.43 (16.7% reduction)	
			Saturated fat: - 0.22 (8.5% reduction)	
			Unsaturated fat: 0.05 (- 1.9%	
			reduction)	
			Sugar: 0.01 (- 0.4% reduction)	
			Fibre: - 0.39 (15.1% reduction)	
			Salt: 0.06 (- 2.3% reduction)	
			Fruit: 0.28 (- 10.6% reduction)	
			Vegetables: - 0.23 (8.9% reduction)	

						Dairy: 0.00 (0.00% reduction) Cheese and fats: - 0.00 (0.00% reduction) Poultry and fish: - 0.11 (4.3% reduction) Red meat and nuts: 0.04 (- 1.6% reduction) Drinks: - 0.04 (1.6% reduction) Prepared sweets: 0.11 (- 4.3% reduction) Prepared savoury: 0.02 (- 0.8% reduction) Alcohol: - 0.08 (3.1% reduction)	
Hasan, 2019	National: Bangladesh Local: n/a	Bangladesh Household Income and Expenditure Survey. Repeated cross- sectional study using two-stage stratified random sampling. Analysis was done for those who buy rice (compared to autarkic households and rice sellers, but there was no significant difference between these types).	Serial cross-sectional design. The study used difference-in- difference framework and OLS models including district fixed effects and employing clustered standard errors (weighted).	Exposure: Commence- ment of GR (time). Time point 1: 2005 (n=4,978), time point 2: 2010 (n=6,744).	Total calorie intake per day using food composition data to create caloric intake profiles. Weighted based on adult equivalent calorie requirements.	2010 coefficient: 13.70 (41.47).	Selection total: 3 Comparability total: 2 Outcomes total: 2 Total score: 7

		n=11,722					
lannotti &	Setting:	Encuesta	Quadratic Almost	Exposure:	Total calorie	National	Selection total:
Robles,	Guatemala	Nacional Sobre	Ideal Demand System	price changes	intake per day	Total: Before: 2,521, after: 2,542,	1
2011	Local: n/a	Condiciones de	for food	using two	using food	change: –24	Comparability
	-	Vida (ENCOVI)	consumption under	scenarios:	composition data	Wealth quintile 1 (poor): Before:	total: 1
		2006.	two different price	actual	to create caloric	1,576, after: 1,481, change: –115	Outcomes
		n= 13.686	scenarios.	changes	intake profiles.	Wealth quintile 2: Before: 2.281. after:	total: 1
		,	Kernel density	between 2006	Weighted based	2,105, change: -123	Total score: 3
			estimates used to	and 2008.	on adult	Wealth quintile 3: Before: 2.716. after:	
			examine the	with Scenario	equivalent calorie	2.595. change: -74	
			distributions of	B representing	requirements.	Wealth quintile 4: Before: 2.975. after:	
			calorie intakes (per	a 10%		3.071. change: 38	
			adult equivalent).	increase		Wealth guintile 5 (rich): Before: 3,120,	
			, ,	across all food		after: 3,631, change: 466	
				groups.		Households with children <2 years	
				Time point:		Total: Before: 2,353, after: 2,307,	
				2006		change: –61	
						Wealth quintile 1 (poor): Before:	
						1,609, after: 1,517, change: -130	
						Wealth quintile 2: Before: 2,383, after:	
						2,261, change: -102	
						Wealth quintile 3: Before: 2,812, after:	
						2,667, change: - 60	
						Wealth quintile 4: Before: 3,154, after:	
						3,307, change: 206	
						Wealth quintile 5 (rich): Before: 3,047,	
						after: 3,797, change: 706	
lannotti &	Setting:	Encuesta de	Quadratic Almost	Exposure:	Total calorie	National	Selection total:
Robles,	Honduras	Condiciones de	Ideal Demand System	price changes	intake per day	Total: Before: 2,370, after: 2,336,	1
2011	Local: n/a	Vida (ENCOVI)	for food	using two	using food	change: –32	Comparability
		2004 n= 8175	consumption under	scenarios:	composition data	Wealth quintile 1 (poor): Before:	total: 1
			two different price	actual	to create caloric	1,986, after: 1,591, change: -330	Outcomes
			scenarios.	changes	intake profiles.	Wealth quintile 2: Before: 2,312, after:	total: 1
			Kernel density	between 2006	Weighted based	2,135, change: –133	Total score: 3
			estimates used to	and 2008,	on adult	Wealth quintile 3: Before: 2,409, after:	
			examine the	with Scenario		2,349, change: –15	

			distributions of	B representing	equivalent calorie	Wealth guintile 4: Before: 2,632, after:	
			calorie intakes (per	a 10%	requirements.	2.713. change: 55	
			adult equivalent).	increase		Wealth guintile 5 (rich): Before: 2.705.	
			,	across all food		after: 3.348. change: 651	
				groups.		Households with children <2 years	
				Time point:		Total: Before: 2.418. after: 2.325.	
				2006		change: -110	
						Wealth guintile 1 (poor): Before:	
						1,997, after: 1,658, change: –357	
						Wealth guintile 2: Before: 2,436, after:	
						2,274, change: –117	
						Wealth quintile 3: Before: 2,544, after:	
						2,499, change: –59	
						Wealth quintile 4: Before: 2,863, after:	
						2,994, change: 55	
						Wealth quintile 5 (rich): Before: 2,955,	
						after: 3,756, change: 767	
lannotti &	Setting:	Encuesta	Quadratic Almost	Exposure:	Total calorie	National	Selection total:
Robles,	Nicaragua	Nacional de	Ideal Demand System	price changes	intake per day	Total: Before: 2,642, after: 2,496	1
2011	Local: n/a	Hogares Sobre	for food	using two	using food	change: –226	Comparability
		Medición de	consumption under	scenarios:	composition data	Wealth quintile 1 (poor): Before:	total: 1
		Nivel de Vida	two different price	actual	to create caloric	1,655, after: 1,242, change: –414	Outcomes
		(EMNV) n= 4959	scenarios.	changes	intake profiles.	Wealth quintile 2: Before: 2,363, after:	total: 1
			Kernel density	between 2006	Weighted based	1,968, change: –380	Total score: 3
			estimates used to	and 2008,	on adult	Wealth quintile 3: Before: 2,803, after:	
			examine the	with Scenario	equivalent calorie	2,548, change: –280	
			distributions of	B representing	requirements.	Wealth quintile 4: Before: 3,134, after:	
			calorie intakes (per	a 10%		3,036, change: –82	
			adult equivalent).	increase		Wealth quintile 5 (rich): Before: 3,578,	
				across all food		after: 4,328, change: 553	
				groups.		Households with children <2 years	
				Time point:		Total: Before: 2,509, after: 2,287,	
				2006		change: –260	
						Wealth quintile 1 (poor): Before:	
						1,669, after: 1,240, change: –413	

						Wealth quintile 2: Before: 2,497, after:	
						2 145 change: -309	
						Wealth quintile 3: Before: 3 253 after:	
						3 109 change: -169	
						Wealth quintile 4: Before: 3 144 after:	
						3 166 change: 176	
						Wealth quintile 5 (rich): Before: 4 144	
						after: A 214 change: 316	
Jannotti &	Setting:	Encuesta de	Quadratic Almost	Exposure	Total calorie	National	Selection total:
Pobloc	Danama	Nivolos do Vida	Ideal Domand System	Exposure.	intako nor day	Total: Refere: 1.004 after: 1.600	
2011		(ENIV) 2002 p =	for food	using two	using food	change: -261	1 Comparability
2011	LUCAI. II/ a	(EINV) 2003 II-	consumption under	using two	composition data	Woalth quintile 1 (near): Pefere:	total: 1
		0120	two different price	scenarios.	to croate caloric	1 276 offer: 762 change: 470	Outcomos
				actual	intaka profilos	1,270, diter. 702, triange479	total: 1
			Scenarios.	botwoon 2006	Moightod based	1 457 change: 214	Total scores 2
				between 2000	weighten basen	1,457, Change514	Total score: 5
			estimates used to	and 2008,		1 COO shansay 225	
			examine the	with Scenario	equivalent calorie	1,690, change: -235	
			distributions of	Brepresenting	requirements.	wealth quintile 4: Before: 2,141, after:	
			calorie intakes (per	a 10%		1,986, change: –136	
			adult equivalent).	increase		Wealth quintile 5 (rich): Before: 2,318,	
				across all food		after: 2,311, change: –57	
				groups.		Households with children <2 years	
				Time point:		Total: Before: 1,701, after: 1,330,	
				2006		change: –362	
						Wealth quintile 1 (poor): Before:	
						1,264, after: 621, change: –552	
						Wealth quintile 2: Before: 1,949, after:	
						1,498, change: –334	
						Wealth quintile 3: Before: 2,233, after:	
						1,783, change: –282	
						Wealth quintile 4: Before: 2,151, after:	
						2,078, change: –130	
						Wealth quintile 5 (rich): Before: 2,030,	
						after: 2,671, change: 424	

lannotti &	Setting: Haiti	Enguête	Quadratic Almost	Exposure:	Total calorie	National	Selection total:
Robles,	Local: n/a	Budget et	Ideal Demand System	price changes	intake per day	Total: Before: 1,863, after: 1,661,	1
2011		Consommation	for food	using two	using food	change: –172	Comparability
		des Ménages	consumption under	scenarios:	composition data	Wealth quintile 1 (poor): Before:	total: 1
		1999-2000 n=	two different price	actual	to create caloric	1,079, after: 805 change: -249	Outcomes
		4625	scenarios.	changes	intake profiles.	Wealth quintile 2: Before: 1.645. after:	total: 1
			Kernel density	between 2006	Weighted based	1,357, change: –326	Total score: 3
			estimates used to	and 2008,	on adult	Wealth guintile 3: Before: 2,021, after:	
			examine the	with Scenario	equivalent calorie	1,820, change: –214	
			distributions of	B representing	requirements.	Wealth guintile 4: Before: 2,689, after:	
			calorie intakes (per	a 10%		2.618. change: -53	
			adult equivalent).	increase		Wealth guintile 5 (rich): Before: 2,633,	
			, ,	across all food		after: 3,419, change: 290	
				groups.		Households with children <2 years	
				Time point:		Total: Before: 1,635, after: 1,495,	
				2006		change: –165	
						Wealth quintile 1 (poor): Before:	
						1,095, after: 831, change: –244	
						Wealth quintile 2: Before: 1,659, after:	
						1,454, change: –237	
						Wealth quintile 3: Before: 1,904, after:	
						2,159, change: –11	
						Wealth quintile 4: Before: 3,229, after:	
						3,395, change: –2	
						Wealth quintile 5 (rich): Before: 2,498,	
						after: 3,834, change: 851	
lannotti &	Setting:	Encuesta de	Quadratic Almost	Exposure:	Total calorie	National	Selection total:
Robles,	Ecuador	Condiciones de	Ideal Demand System	price changes	intake per day	Total: Before: 2,105, after: 1,747,	1
2011	Local: n/a	Vida (ECV) 2006	for food	using two	using food	change: –318	Comparability
		n= 13,018	consumption under	scenarios:	composition data	Wealth quintile 1 (poor): Before:	total: 1
			two different price	actual	to create caloric	1,296, after: 966, change: –305	Outcomes
			scenarios.	changes	intake profiles.	Wealth quintile 2: Before: 1,992, after:	total: 1
			Kernel density	between 2006	Weighted based	1,527, change: –437	Total score: 3
			estimates used to	and 2008,	on adult	Wealth quintile 3: Before: 2,301, after:	
			examine the	with Scenario	equivalent calorie	1,870, change: –361	
			distributions of	B representing	requirements.		

			calorie intakes (per	a 10%		Wealth guintile 4: Before: 2,583, after:	
			adult equivalent)	increase		2 256 change: -271	
			addit equivalent).	across all food		Wealth quintile 5 (rich): Before: 2 685	
				groups		after: 2 571 change: -107	
				Time point:		Households with children <2 years	
				2006		Total: Poforo: 1.068 after: 1.641	
				2000		shange: 228	
						Moalth quintile 1 (near): Deferre	
						1 251 offer 012 shares 250	
						1,251, after: 912, change: -258	
						Wealth quintile 2: Before: 2,067, after:	
						1,595, change: –521	
						Wealth quintile 3: Before: 2,424, after:	
						1,954, change: –420	
						Wealth quintile 4: Before: 2,605, after:	
						2,434, change: –189	
						Wealth quintile 5 (rich): Before: 2,648,	
						after:2,666, change: 33	
lannotti &	Setting: Peru	Encuesta	Quadratic Almost	Exposure:	Total calorie	National	Selection total:
Robles,	Local: n/a	Nacional de	Ideal Demand System	price changes	intake per day	Total: Before: 2,586, after: 2,392,	1
2011		Hogares	for food	using two	using food	change: –175	Comparability
		(ENAHO) 2006	consumption under	scenarios:	composition data	Wealth quintile 1 (poor): Before:	total: 1
		n= 20,577	two different price	actual	to create caloric	1,835, after: 1,539, change: –272	Outcomes
			scenarios.	changes	intake profiles.	Wealth quintile 2: Before: 2,412, after:	total: 1
			Kernel density	between 2006	Weighted based	2,062, change: –326	Total score: 3
			estimates used to	and 2008,	on adult	Wealth quintile 3: Before: 2,749, after:	
			examine the	with Scenario	equivalent calorie	2,489, change: –57	
			distributions of	B representing	requirements.	Wealth quintile 4: Before: 3,031, after:	
			calorie intakes (per	a 10%		2,963, change: –71	
			adult equivalent).	increase		Wealth quintile 5 (rich): Before: 3,257,	
			. ,	across all food		after: 3,649, change: 413	
				groups.		Households with children <2 years	
				Time point:		Total: Before: 2,475, after: 2,298,	
				2006		change: –167	
						Wealth guintile 1 (poor): Before:	
						1,901, after:1,695, change: –229	

						Wealth quintile 2: Before: 2,597, after:	
						2,332, change: –297	
						Wealth quintile 3: Before: 2,872,	
						after:2,805, change: –142	
						Wealth quintile 4: Before: 3,197, after:	
						3,465, change: 160	
						Wealth quintile 5 (rich): Before: 3,399,	
						after: 3,659, change: 400	
Marcotte-	National:	National Health	Serial cross-sectional	Exposure:	24-hr dietary	Men:	Selection total:
Chenard	USA	and Nutrition	study.	Commence-	recall used to	1999-2006: 2318 ± 1013, 2007-2008:	3
	Local: n/a	Examination	Factorial ANOVAs	ment of GR	calculate average	2233 ± 875; P = 0.0001	Comparability
		Survey. Adults	(post hoc test and	(time).	total daily calorie	Women:	total: 1
		aged between	contrast) used to	Time point 1:	intake in men and	1999-2006: 1786 ± 762, 2007-2008:	Outcomes
		20-85 (average	compare 1999-2006	1999-2006	women.	1688 ± 625 calories/day; P = 0.0001	total: 2
		age 49), 48.1%	intervals to 2006-	Time point 2:			Total score: 6
		male.	2007 intervals.	2007-2008.			
		N=38,541					
Mohseni-	Global: 63	Reinhart and	Investigating	Exposure:	Calorie Intake per	Average change in growth rate (t-test):	Selection total:
Cheraglou,	countries	Rogoff's dataset	whether growth	value of a	Capita Per Day	-2.1 (p<0.01)	2
2016	(and 100	on financial	rates of different	currency		Crises with recessions, average change	Comparability
	recessions).	crises; FAOSTAT	variables are affected	falling by 15%		in growth rate (t-test): -2.8 (p<0.01)	total: 0
		data 2010. 93	by financial crises	or more		Crises without recessions, average	Outcomes
		observations.	and computing an	against the US		change in growth rate (t-test): -1.4	total: 1
			average of these	dollar or		(p<0.05).	Total score: 3
			changes over all crisis	banking			
			episodes in all	distress			
			countries.	including			
				closures,			
				mergers and			
				government			
				takeovers.			
				Data from			
				1981-2007.			
Ng	National:	National Health	Cross-sectional.	Exposure:	Total calorie	Children aged 2-18:	Selection total:
	USA	and Nutrition	Comparison of	Commence-	intake per day	Mean calories consumed per day	4
	Local: n/a		calorie intakes over		using food	2003-4: 2118 (SE 23)	

	Examination	time in adults and	ment of GR	composition data	Mean calories consumed per day	Comparability
	Survey.	children. Statistical	(time)	to create caloric	2005-6: 2027 (SE 33)	total: 2
	Children and	difference assessed	Time point 1:	intake profiles.	Mean calories consumed per day	Outcomes
	adults. Multi-	using 2-sample t	2003-2004		2007-8: 1907 (SE 25) – significantly	total: 2
	stage, stratified-	tests.	Time point 2:		different from 2003-2004, p<0.01.	Total score: 8
	area probability		2005-2006		Mean calories consumed per day	
	sample of US		Time point 3:		2009-10: 1908 (SE 25) – significantly	
	population.		2007-2008		different from 2003-2004, p<0.01.	
	N for children		Time point 4:		Mean annualised change: -35	
	ranges from		2009-2010		Largest annualised decreases from	
	2966 to 3778,				Mexican American children (-47	
	adults n ranges				kcal/day), children from low-income	
	from 2449 to				families (-45 kcal/day) and children	
	3038.				whose household head had a high	
					school education (-51 kcal/day).	
					No significant declines observed from	
					2003-2004 to 2009-2010 in	
					adolescents, non-Hispanic blacks and	
					children whose household head had	
					less than high school education.	
					Adults aged 19+:	
					Mean calories consumed per day	
					2003-4: 2220 (SE 16)	
					Mean calories consumed per day	
					2005-6: 2201 (SE 33)	
					Mean calories consumed per day	
					2007-8: 2121 (SE 29)	
					Mean calories consumed per day	
					2009-10: 2135 (SE 19) – significantly	
					different from 2003-2004, p<0.01.	
					Mean annualised change: -14	
					Few significant declines in energy	
					intake for adults – significant declines	
					only seen in Mexican Americans,	
					women and individuals with some	
					college education.	

Shabnam	National:	Household	Serial cross-sectional.	Exposure:	The data on	Price elasticity of calories	Selection total:
et al., 2016	Pakistan	Integrated	Demand equation for	Commence-	household food	2005-2006: -0.03	3
	Local: n/a	Economic	price elasticity of	ment of GR	consumption	2010-2011: -0.21	Comparability
		Survey (HIES), a	calories.	(time)	covered a period		total: 2
		nationally		Time point 1:	of 14 days and		Outcomes
		representative		2005-6	30-days call		total: 2
		survey of rural		(n=14,863)	period.		Total score: 7
		and urban areas		Time point 2:	Price elasticity of		
		(14 big cities		2010-11	calories.		
		and 81 districts		n= 15,191			
		in each of the					
		country's four					
		provinces).					
		Mean age: 45,					
		Female-headed					
		households					
		7.5% in 2005					
		and 8.4% in					
		2010.					
		N= 14,863 and					
		15,191					
Smed et	National:	GfK Panel	Longitudinal.	Exposure:	Energy in kJ per	CCI (β 1): coefficient: 143·43, P value:	Selection total:
al., 2017	Denmark	Services	Fixed methods	Consumer	person per	0.637	4
	Local: n/a	Scandinavia of	econometric	Confidence	month.		Comparability
		households of	methods to control	Interval as a	Constructed		total: 2
		working age.	for unobserved	proxy for	consumption per		Outcomes
		N=3440	heterogeneity.	economic	individual in		total: 2
			Unemployment,	downturn.	households by		Total score: 8
			single, location and	Time: January	dividing each		
			number of children	2008 to	household's		
			included in model.	December	consumption data		
			If increasing CCI is	2012.	with weights		
			associated with		constructed from		
			increasing		gender- and age-		
			consumption, an		dependent daily		
			economic downturn		energy intake.		

			is associated with				
			decreasing				
			consumption and				
			vico vorso				
Tadd	National.		Vice versa.	F	Dethe selection	Tatal dath, calarian	Calaatian tatali
1000,	National:	National Health	Serial cross-sectional.	Exposure:	Daily calories	lotal dally calories	Selection total:
2014	USA	and Nutrition	Multivariate linear	Commence-	from one-day	Unconditional and conditional	3
	Local: n/a	Examination	regression models	ment of GR	dietary recall.	differences in mean outcomes	Comparability
		Survey.	were used to	(time)		between 2005-06 and 2009- 10:	total: 2
		N=9,839, adults	estimate the	Time point 1:		Unconditional: - 117.73	Outcomes
		born between	conditional changes	2005-2006		Conditional upon age: -90.37	total: 1
		1946-1985 so	in outcome variables.	N=3,014		(difference from unconditional is	Total score: 6
		between the	Used weighted	Time point 2:		statistically significant with p<0.01)	
		ages of 20 – 64	ordinary least	2007-2008		Conditional upon age, other	
		during the study	squares with SE	N=3,294		demographics: - 78.45	
		period. 48-49%	accounting for the	Time point 3:		Conditional upon age, other	
		male.	complex sample	2009-2010		demographics, and income: -78.79	
			design. Model	N=3,531		Difference in variable mean between	
			(conditioning)			full model (conditional upon age, other	
			includes age,			demographics and income) and	
			household size, and			unconditional is statistically significant	
			indicators for gender,			with p<0.05	
			ethnicity, marital			Conditional changes by subgroups:	
			intake, data collected			Born 1946-85, some college or more:	
			during weekend, and			2005-06: 2325.61, change 2005-06 to	
			for the older cohort.			2009-10: -85.89 (change is statistically	
			education as			significant at P<0.05)	
			controls.			Born 1946-85, no college education:	
						2005-06: 2333.15, change 2005-06 to	
						2009-10: -70 15	
						Men, born 1946-85, no college	
						2005-06: 2794.45, change 2005-06 to	
						2009-10: -103 93	
						Adults born before 1946	
						2005-06: 1788 48 Change 2005-06 to	
						2003-00. 17 00.40, Change 2003-00 to	
						2009-10: -2.08	

Todd, 2017	National: USA Local: n/a	National Health and Nutrition Examination Survey. Includes working age adults between 25-65 (n=12,129), and a secondary sample of 15-24 year olds (23-32 year olds in 2013-2014) (n=5197).	Serial cross-sectional. Used multivariate linear regression models and ordinary least squares. Adjusted for age, household income relative to poverty, household size, and indicators for gender, ethnicity, marital intake, data collected during weekend, and for the older cohort, education as controls.	Exposure: Commence- ment of GR (time) Time point 1: 2005-2006 Time point 2: 2007-2008 Time point 3: 2009-2010 Time point 4: 2013-2014	Daily calories from one-day recall using Automated Multiple Pass Method (log total energy)	$\frac{\text{Conditional differences with their}}{\text{standard errors, and percentage}} \\ \frac{\text{change in estimated difference from}}{\text{unconditional difference in log total}} \\ \frac{\text{energy intake:}}{\text{energy intake:}} \\ 2007-08: \beta -0.03, SE: 0.02 \\ 2009-10: \beta -0.03, SE: 0.02 (estimate is statistically significant P<0.05), \\ \text{percentage change: - 40} \\ 2011-12: \beta 0.00, SE: 0.02 \\ 2013-14 \beta -0.03, SE: 0.02, \\ \text{percentage change: - 57} \\ \text{Constant: } \beta 7.59, SE: 0.00 (estimate is statistically significant P<0.05)} \\ \end{cases}$	Selection total: 4 Comparability total: 2 Outcomes total: 2 Total score: 8
Dietary Qual	lity						
Bonaccio et al., 2014	National: Italy Local: the Molise region	Moli-Sani study. Adults aged over 35 (mean age 54.4); percentage male: 47.30%. Randomly recruited. Total n=21,001.	Serial cross-sectional study of participants recruited before and after the recession. Multivariable binomial (Poisson) regression with log link function. Covariates included total energy intake, total physical activity, BMI, smoking, hypertension, hypercholesterol- aemia and diabetes. Used an interaction term to test for a difference between two time periods	Exposure: Commence- ment of GR (time). Time point 1: Recruited in 2005-2006 (n=6999) Time point 2: Recruited in 2007-2010 (n=14,002)	Mediterranean Diet Adherence using Italian EPIC food frequency questionnaire and Italian Mediterranean Index (IMI) (higher number indicates higher adherence to Mediterranean diet, with a score of more than 5 indicating high adherence). Also Total Food Dietary	High adherence (IMI score ≥ 5): 2005-2006: 31.1%, 2007-2010: 18.3% (difference -13.0, p-value for difference between time periods <0.001). Prevalence ratios (95% CI) of high adherence to Mediterranean diet according to SE indicators over time. Age groups: 2005-2006: 35-43: ref; 44-53: 1.21 (1.09-1.35); 54-59: 1.35 (1.19–1.53); 60-70: 1.50 (1.32–1.70); 70+: 1.35 (1.14–1.59) 2007-2010: 35-43: ref; 44-53: 1.01 (0.91–1.12); 54-59: 1.30 (1.15–1.47); 60-70: 1.27 (1.12–1.45); 70+: 1.12 (0.94–1.34) Sex:	Selection total: 3 Comparability total: 2 Outcomes total: 2 Total score: 7

					Contont cooro	(0.71, 0.92)	
					using Italian EDIC	(0.71 - 0.85)	
					using italian EPIC		
					rood frequency	(0.69–0.82) Waalah Caaraa	
					questionnaire.	wealth Score:	
						2005-2006: Low: ref,	
						Medium: 1.04 (0.94–1.16),	
						High: 1.05 (0.94–1.16),	
						Non-respondent: 1.03 (0.92–1.15)	
						2007-2010: Low: ref,	
						Medium: 1.10 (0.98–1.22),	
						High: 1.31 (1.18–1.46),	
						non-respondent: 1.00 (0.91–1.11)	
						Education:	
						2005-6: ≤8 years of study: ref,	
						9-13 years of study: 1.02 (0.93–1.11),	
						>13 years of study: 1.16 (1.04–1.31)	
						2007-10: ≤8 years of study: ref,	
						9-13 years of study: 1.24 (1.14–1.35),	
						>13 years of study: 1.32 (1.17–1.50)	
						Total Food Dietary Antioxidant	
						Content score:	
						2005/6: 5.9 (50.2)	
						2007-2010: -3.4 (47.6)	
						p-value <0.0001	
Brinkman	National:	World Food	Regression model	Exposure:	Food	Intercept: 2.90 (significant at 1%)	Selection total:
et al., 2010	Haiti	Programme	and Ordinary Least	changes in	Consumption	Prices: -0.23 (significant at 5%)	2
,	Local: 5	conducted	, Squares estimates	food prices	Score. calculated	()	Comparability
	villages (Acul	household-level	linking changes in	(price	using eight		total: 0
	Samedi.	food security	Food Consumption	variable: rice).	different food		Outcomes
	Ferrier. Beau	assessments.	Score with changes in	Time point 1:	groups (main		total: 0
	Roc. Grison	N=517	food prices.	January, June	staples, pulses		Total score: 2
	Garde, and			and	vegetables. fruit.		
	Dupity)			September	meat and fish.		
				2006	milk sugar oil)		
				2000	over seven davs		
Brinkman st al., 2010	National: Haiti Local: 5 villages (Acul Samedi, Ferrier, Beau Roc, Grison Garde, and Dupity)	World Food Programme conducted household-level food security assessments. N=517	Regression model and Ordinary Least Squares estimates linking changes in Food Consumption Score with changes in food prices.	Exposure: changes in food prices (price variable: rice). Time point 1: January, June and September 2006	Food Consumption Score, calculated using eight different food groups (main staples, pulses, vegetables, fruit, meat and fish, milk, sugar, oil) over seven days	Medium: 1.04 (0.94–1.16), High: 1.05 (0.94–1.16), Non-respondent: 1.03 (0.92–1.15) 2007-2010: Low: ref, Medium: 1.10 (0.98–1.22), High: 1.31 (1.18–1.46), non-respondent: 1.00 (0.91–1.11) Education: 2005-6: ≤8 years of study: ref, 9-13 years of study: 1.02 (0.93–1.11), >13 years of study: 1.02 (0.93–1.11), >13 years of study: 1.16 (1.04–1.31) 2007-10: ≤8 years of study: ref, 9-13 years of study: 1.24 (1.14–1.35), >13 years of study: 1.32 (1.17–1.50) Total Food Dietary Antioxidant Content score: 2005/6: 5.9 (50.2) 2007-2010: -3.4 (47.6) p-value <0.0001 Intercept: 2.90 (significant at 1%) Prices: -0.23 (significant at 5%)	Selection to 2 Comparabili total: 0 Outcomes total: 0 Total score:

				Time point 2: January, June and September 2007	and multiplying frequency by food weight and summing all groups to create a consumption score, with a score of over 35 being considered as an acceptable diet		
Brinkman et al., 2010	National: Nepal Local: 3 zones (mountains, Terai, and Hill districts)	World Food Programme conducted household-level food security assessments. N=600	Regression model and Ordinary Least Squares estimates linking changes in Food Consumption Score with changes in food prices.	Exposure: changes in food prices (price variable: weighted commodity index). Time point 1: July - September 2008 Time point 2: October – December 2008	Food Consumption Score (see above)	Intercept: 4.09 (significant at 1%) Prices: -0.05 (significant at 10%)	Selection total: 2 Comparability total: 0 Outcomes total: 0 Total score: 2
Brinkman et al., 2010	National: Niger Local: 357 villages	World Food Programme conducted household-level food security assessments. N=4376	Regression model and Ordinary Least Squares estimates linking changes in Food Consumption Score with changes in food prices.	Exposure: changes in food prices (price variable: millet). June, August, November,	Food Consumption Score (see above)	Intercept: 4.13 (significant at 1%) Prices: -0.08 (significant at 1%)	Selection total: 2 Comparability total: 0 Outcomes total: 0 Total score: 2

				December 2007.			
Dave et al., 2012	National: USA Local: n/a	Behavioural Risk Factor Surveillance System. Adults aged between 26-58. N=56,354 (answered all healthy/ unhealthy food questions)	Serial cross-sectional. Reduced-form cross- equation (fixed effects) estimates of the average effect of state unemployment on healthy and unhealthy food consumption seemingly unrelated regression. Controlled for gender, education, age, marital status, ethnicity and state indicators.	Exposure: area-level unemploy- ment rates. Time: 1990 – 2009 (excluding 2004, 2006 and 2008).	How often do you eat (FOOD) with options of times per day, week, month, or year? Healthy foods: carrots, fruit, fruit juice, green salad, and vegetables. Unhealthy food: snacks, hamburgers, hot dogs, French fries, fried chicken, and doughnuts	Healthy food consumption:All: $-0.0057 (0.0014) [0.000]$ Ages 26–58: $-0.0048 (0.0013) [0.000]$ Ages 44–58: $-0.0030 (0.0011) [0.009]$ Ages 65+: $-0.0062 (0.0012) [0.000]$ Females: $-0.0052 (0.0015) [0.767]$ Males: $-0.0062 (0.0012) [0.000]$ Females: $-0.0055 (0.0015) [0.015]$ Married: $-0.0058 (0.0018) [0.001]$ Unmarried: $-0.0029 (0.0008) [0.000]$ Less than college: $-0.0055 (0.0011)$ $[0.000]$ College plus: $-0.0033 (0.0025) [0.187]$ Unhealthy food consumption:All: $0.0074 (0.0065) [0.261]$ Ages 26–58: $0.0106 (0.0076) [0.161]$ Ages 65+: $-0.0066 (0.0058) [0.253]$ Males: $-0.0022 (0.0073) [0.766]$ Females: $0.0160 (0.0079) [0.043]$ Married: $-0.0022 (0.0073) [0.099]$ Unmarried: $-0.0022 (0.0103) [0.830]$ Less than college: $0.0099 (0.0080)$ $[0.216]$ College plus: $-0.0011 (0.0080) [0.895]$	Selection total: 3 Comparability total: 2 Outcomes total: 2 Total score: 7
Foscolou, 2017	20 Mediterrane an islands: the Republic of Malta (n=250), Sardinia (n=60) and Sicily (n=50)	MEDIS Study. People above 65, 50% male. N=2749	Serial Cross-sectional study of participants recruited before and after the recession. Scores compared before and after 2009 using independent samples t-test.	Exposure: Commence- ment of GR (time). Time point 1: Recruited between 2005-2008 (n=1220).	Adherence to Mediterranean Diet using MedDietScore (ranging from 0- 55; 0-29 low adherence, 30-37 medium adherence, 38-55	Enrolled before 2009: MedDietScore: 34 ± 4 Low adherence: $n=174$ (14%), Medium adherence: $n=868$ (72%) High adherence: $n=173$ (14%) Enrolled after 2009: MedDietScore: 32 ± 5 Low adherence: $n=524$ (36%) Medium adherence: $n=721$ (50%)	Selection total: 2 Comparability total: 0 Outcomes total: 1 Total score: 3

in It	taly, the	Time point 2:	high adherence).	High Adherence: n=213 (14%).	
Ren	public of	recruited	Dietary habits	Difference in MedDietScore:	
Cyn		hetween	assessed through	$P_{\rm value} < 0.001$ (independent samples	
(n-3	-300)	2009-2015	a food frequency	t_tost)	
Gök	kceada	(n-1520)	questionnaire	Difference in low adherence:	
(n-5		(11-1323)	questionnane.	Difference in low adherence.	
(11-5	-55) III			r-value <0.001 (Pearson chi-squared	
i un	Creak			lest	
the	Greek				
islar	inds of				
Lest	sbos				
(n=1	-142),				
Sam	nothraki				
(n=1	=100),				
Сер	phalonia				
(n=1	-115),				
Cret	ete				
(n=1	:131),				
Cort	rfu				
(n=1	-149),				
Lim	าทอร				
(n=1	-150),				
Ikar	ria				
(n=7	76), Syros				
(n=1	-151),				
Nax	xos				
(n=1	-145),				
Zaky	wnthos				
(n=1	103).				
Sala	amina				
(n=1	147).				
Kase	ssos				
(n="	52).				
Rho	odes and				
Karr	rpathos				
(n-1	149)				
Tinc					
Tinc	-14 <i>5),</i> OS				

(n=129), as well as the rural region of east Mar (n=295).	i					
Griffith et al, 2016a Local: n/a	K Kantar Worldpanel data for UK households. n=14,694.	Longitudinal study. HEI scores and percentage change.	Exposure: Commence- ment of GR (time). Time point 1: 2005-2007, Time point 2: 2010-12	Healthy Eating (HEI) index. The HEI gives a score between 0 and 100 based on amount per 1000 calories of different food groups and nutrients (fruit, vegetables, grains, milk, meat, oils, sodium, and saturated fat). Outcome data of food purchases from all types of stores using an electronic hand- held scanner in the home.	All Households: Max score: 100 Mean in 2005-7: 49.0 Change to 2010-12: 0.72 % change to 2010-12: 1.5 'Good' change: change to 2010-12: 1.45, % change to 2010-12: 3.0 'Bad' change: change to 2010-12: 1.45, % change to 2010-12: 3.0 'Bad' change: change to 2010-12: -0.72, % change to 2010-12: 1.5 Pre-school children: Mean in 2005-7: 48.7 Change to 2010-12: 1.52 % change to 2010-12: 3.1% 'Good' change: 3.02, 'Bad' change: - 1.51 School-age children: Mean in 2005-7: 46.1 Change to 2010-12: 1.03 % change to 2010-12: 1.046 % change to 2010-12: 3.1 'Good' change: 1.93, '	Selection total: 3 Comparability total: 2 Outcomes total: 2 Total score: 7

						'Good' change: 0.91,	
						'Bad' change: - 1.14	
						Working high-income:	
						Mean in 2005-7: 49.6	
						Change to 2010-12: 0.87	
						% change to 2010-12: 1.8	
						'Good' change: 1.78,	
						'Bad' change: - 0.91	
						Working mid-income:	
						Mean in 2005-7: 48.0	
						Change to 2010-12: 1.03	
						% change to 2010-12: 2.1	
						'Good' change: 1.78,	
						'Bad' change: - 0.75	
						Working low-income:	
						Mean in 2005-7: 46.6	
						Change to 2010-12: 2.01	
						% change to 2010-12: 4.3	
						'Good' change: 2.44.	
						'Bad' change: - 0.43	
						Unemployed:	
						Mean in 2005-7: 46.7	
						Change to 2010-12: 1.11	
						% change to 2010-12: 2.4	
						'Good' change: 1.67.	
						'Bad' change: - 0.56	
Griffith et Na	ational: UK	Kantar	Longitudinal.	Exposure:	1) Nutrient Profile	1) NPM	Selection total:
al. 2013 Lo	ocal: n/a	Worldpanel	Regressed variables	Time point 1:	Model.	Single non-pensioners:	3
-,	, .	data.	on three time-period	2005-2007	Based on a food	2008-09: - 0.16. 2010-12: - 0.20.	Comparability
		N=15.850.	dummies and	Time point 2:	item's energy	Single pensioners:	total: 2
			controlled for month	2008-2009	density, saturated	2008-09: - 0.26. 2010-12: - 0.31.	Outcomes
			and household fixed.	Time point 3:	fat. sodium. sugar	Couple non-pensioners:	total: 2
			estimating regression	2010-2012	content (all of	2008-09: -0.12. 2010-12: -0.13.	Total score: 7
			separately by		which contribute	Couple pensioners:	
			household		negatively).	2008-09: - 0.15. 2010-12: - 0.24.	
Griffith et Na al, 2013 Lo	ational: UK ocal: n/a	Kantar Worldpanel data. N=15,850.	Longitudinal. Regressed variables on three time-period dummies and controlled for month and household fixed, estimating regression separately by household.	Exposure: Time point 1: 2005-2007 Time point 2: 2008-2009 Time point 3: 2010-2012	1) Nutrient Profile Model. Based on a food item's energy density, saturated fat, sodium, sugar content (all of which contribute negatively),	Change to 2010-12: 1.11 % change to 2010-12: 2.4 'Good' change: 1.67, 'Bad' change: - 0.56 1) NPM Single non-pensioners: 2008-09: - 0.16, 2010-12: - 0.20, Single pensioners: 2008-09: - 0.26, 2010-12: - 0.31, Couple non-pensioners: 2008-09: - 0.12, 2010-12: - 0.13, Couple pensioners: 2008-09: - 0.15, 2010-12: - 0.24,	Selection total: 3 Comparability total: 2 Outcomes total: 2 Total score: 7

		fruit and	2008-09: - 0.05, 2010-12: - 0.07,	
		vegetable content	Single parents:	
		(which contribute	2008-09: - 0.12, 2010-12: - 0.24	
		positively). They	2+ adults, young children:	
		constructed a	2008-09: - 0.14, 2010-12: - 0.26	
		weighted average	2+ adults, older children:	
		for each	2008-09: - 0.01, 2010-12: - 0.05	
		household in each	All households:	
		month across all	2008-09: - 0.13, 2010-12: -0.18	
		the products	All the changes are statistically	
		purchased.	different from zero at the 99% level,	
		2) Healthy Eating	apart from '2+ adults, older children	
		Index -	(2008–09)'. The NPM score ranges	
		constructed	from –6.1 to 21.6, with a mean of 1.45	
		based on the	across all households and months.	
		amounts per	2) HEI	
		1000 calories of	Single non-pensioners:	
		produce of 12	2008-09: - 1.25, 2010-12: - 1.57,	
		components,	Single pensioners:	
		including both	2008-09: - 1.97, 2010-12: - 2.74,	
		food types (fruit,	Couple non-pensioners:	
		vegetables,	2008-09: - 1.02, 2010-12: - 1.13,	
		grains, milk, meat	Couple pensioners:	
		and oils) and	2008-09: - 1.39, 2010-12: - 2.40,	
		nutrients	Multi-adult households:	
		(saturated fat,	2008-09: - 0.40, 2010-12: - 0.88	
		sodium, added	Single parents:	
		sugar, solid fat	2008-09: - 1.21, 2010-12: - 2.48	
		and alcohol).	2+ adults, young children:	
		Participants	2008-09: - 0.56, 2010-12: - 1.28	
		record spending	2+ adults, older children:	
		on all grocery	2008-09: - 0.40, 2010-12: - 1.19	
		purchases via an	All households:	
		electronic hand-	2008-09: - 1.00, 2010-12: - 1.64.	
		held scanner in	All changes were statistically	
		the home	significant from zero at the 99% level.	

					(purchases	The HEI ranges from 2.9 to 100, with a	
					brought into the	mean of 50.5 across all households and	
Hacan	National	Pangladash	Sorial cross sostional	Exposuro	nome).	1) Household Diotony Diversity Score:	Soloction total:
пазан, 2010	National. Bangladach	Baligiauesti	design	Exposure.	I) Household	1) Household Dietaly Diversity Score.	
2019		Housenoiu	The study used	commence-	Score which		5 Comparability
	LUCal. II/ a	Expondituro	difference in	(time)	involves counting	2) Each Consumption Score:	total: 2
		Experiature	difference	(time)	the number of	2) Food Consumption Score.	Outcomos
		Survey.	framowork and OLS		ule liuliber of	2) Number of food groups consumed	total: 2
		Repeated cross-		2005		3) Number of food groups consumed:	
		sectional study	district fixed offects	(11=4,978),	groups consumed	rear 2010 coefficient: 0.60 (0.17)	Total score: 7
		using two-stage		time point 2:	by the nousehold	P<0.01	
		stratilieu	and employing	2010	In a day to come		
		compling	orrors (woighted)	(11-0,744).	that is a number		
		Apolycic was	enors (weighted).		hotwoon 0 and		
		dono for those			12 determined		
		who huy rice			whether you		
		(compared to			consumed foods		
		autarkic			in 12 pre-defined		
		households and			groups (cereals		
		rice sellers but			roots and tubers		
		there was no			pulses and nuts.		
		significant			vegetables, fruit.		
		difference			meat. eggs. fish		
		between these			and seafood, milk		
		types).			and dairy		
		n=11,722			products, oil and		
					fats, sugar and		
					miscellaneous		
					(for example,		
					condiments)).		
					2) Food		
					Consumption		
					Score - calculated		
					using eight		
					different food		

					groups (main		
					groups (main		
					staples, pulses,		
					vegetables, fruit,		
					meat and fish,		
					milk, sugar, oil)		
					over seven days		
					and multiplying		
					frequency by food		
					weights (based on		
					energy, protein		
					and micro-		
					nutrient density		
					of food). Summed		
					to create a		
					consumption		
					score, with a		
					score of over 35		
					being considered		
					as an acceptable		
					diet.		
					3) Number of		
					food groups		
					consumed		
Kuhns,	National:	Neilson	Panel survey.	Exposure:	The USDA scores	1) USDA Score 1	Selection total:
2014	USA	Homescan Data.	Multivariate panel	Commence-	are squared-error	Overall: mean: 5.949, St. Dev.: 2.357,	3
	Local: n/a	N=4.2 million	regression analysis	ment of GR	loss functions,	min: 0.898, max.: 16.364	Comparability
		observations	with healthfulness of	(time)	designed to	Recession: mean: 5.996, St. Dev.:	total: 2
			monthly shopping	Time: 2004-	assign penalties	2.395, min: 0.898, max.: 16.365	Outcomes
			baskets modelled as	2010 (dummy	for household	Not Recession: mean: 5.932, St. Dev.:	total: 2
			a function of	variable used	expenditure	2.343, min: 0.898, max.: 16.364	Total score: 7
			macroeconomic	for 2007-	shares that	Regression results:	
			conditions.	2009).	deviate from	Recession: monthly average: 0.120	
			Controlled for	,	USDA recomm-	(0.222); household FE: 0.451 (0.005)	
			unobserved time-		endations.	(Significant at the 0.01 level):	
			invariant geographic		1) USDAScore1 is	2) USDA Score 2	

		operates on the	Overall: mean: 7.996, St. Dev.: 3.440,	
		assumption that	min: 0.971, max.: 22.808	
		the Homescan	Recession: mean: 8.059, St. Dev.:	
		households	3.483, min: 0.971, max.: 17.874	
		report 100% food	Not Recession: mean: 7.972, St. Dev.:	
		at home	3.424, min: 0.990, max.: 22.808	
		purchases to	Regression results:	
		Nielsen. Input an	Recession: monthly average: 0.074	
		expenditure share	(0.139); household FE: 0.286 (0.009)	
		of zero for those	(Significant at the 0.01 level);	
		food groups for	3) USDA Score 3	
		which households	Overall: mean: 6.430, St. Dev.2.685,	
		report no	min: 0.915, max.: 17.875	
		purchases.	Recession: mean: 6.487, St. Dev.:	
		2) USDAScore2	2.728, min: 0.915, max.: 17.874	
		assumes that	Not Recession: mean: 6.410, St. Dev.:	
		households	2.669, min: 0.915, max.: 17.875	
		simply have not	Regression results:	
		recorded	Recession: monthly average: 0.122	
		purchases for	(0.205); household FE: 0.425 (0.006)	
		completely empty	(Significant at the 0.01 level);	
		food categories.	Dietary quality 4-8% better during	
		Therefore,	recession.	
		USDAScore2 is		
		calculated based		
		only on those		
		food categories		
		with recorded		
		purchases and		
		expenditure		
		shares greater		
		than zero.		
		3) USDAScore3		
		assigns penalties		
		only when		

					households		
					exceed		
					recommend-		
					ations for limited		
					categories or falls		
					short of		
					recommend-		
					ations for		
					categories		
Martin-	National	Households	Serial cross-sectional	Exposure:	Index member	2007 score mean 2007 (n=2970): 5.7 +	Selection total:
Prevel et	Burkina Faso	randomly	General linear mixed	Commence-	Dietary Diversity	1 7	3
al 2012	Local	selected from	model	ment of GR	Score (preceding	2008 score mean (n=2962): 5.2 + 1.5	Comparability
ai, 2012			Model 0: no	(time)	24 hours)	P < 0.0001	total: 2
	dougou		adjustment	Time Point 1	14 food groups	Tertiles 2007 (n=2970): low 24 2%	Outcomes
	uougou	age of	Model 1: comparison	101v 2007	Iq 1000 groups	medium $1/1.9\%$ high 30.9%	total: 2
		household	adjusted for age and	(n-3017)	$\Delta (V/\Delta)$ -rich	Tertiles 2008 (n=2962): low 31 1%	Total score: 7
		head: 12	gender of the head of	Time Point 2	vegetables and	medium 52.4% high 16.5%	
		household head	bousehold residency		tubers white	P > 0.0001	
		86.8% (2007)	in the compound	(n-3002)	tubers/roots	Paw and adjusted changes in dietary	
		and 87.8%	size of household	(11-3002)	green leafy	diversity between 2007 and 2008:	
		(2008) malo	vouth ratio		vogotablos othor	Model 0:	
		(2006) male.	dopondoncy ratio		vegetables, Utilei	$2007 \cdot 5 50 \pm 0.09 2008 \cdot 5 20 \pm 0.07$	
			aconomic scoro		rich fruite other	<pre>2007. 5.59 ± 0.08, 2008. 5.20 ± 0.07, <0.0001</pre>	
			colory Linteraction		fruits offal most	Vieweiter Madel 1:	
			tormer voor v		nuits, Unai, meat,		
			cernis: year x		logumos (nuts (soo	$2007: 5.03 \pm 0.08, 2008: 5.20 \pm 0.07,$	
			Andel 2 came as		de mille/deine	<0.0001	
			wodel 1		us, mik/uairy		
			model 1 +		product,	$2007: 5.05 \pm 0.08, 2008: 5.15 \pm 0.07,$	
			adjustment for		olis/latsj. A point	<0.0001	
			nousenoia rooa		allocated for each		
			expenditure/adult		group consumed		
			equivalent.		and the index-		
			All analyses took into		member dietary		
			account the sampling		alversity score		
			design by including a		(IDDS) was the		
			random EA effect.		sum of these		

					points		
					theoretically		
					ranging from 0		
					(no food		
					consumed the		
					provious day) to		
					14 (maximum		
					diversity)		
Norto ot	National	Spanich	Sorial cross soctional	Exposuro	Odds of poor diat	SHEL by adjugation loval (university -	Soloction total:
	National.	National Health	Jogistic rogrossion	Commonco	using Spanish	rof):	\mathcal{S}
al, 2019	Spaili Lessly n/s		Logistic regression	commence-		2006	5 Comporability
	LOCAL ITA	Survey.	aujusted by age and	(time)	Heditry Ediling	2000 Secondam: AOD: 1.70 (05% CL1.45	
		Stratified	sex.	(time) Time residt 1		Secondary AOR: 1.79 (95% CI 1.45 -	
					score of < 51).	2.22), p<0.001	Outcomes
		sampling (tri-		2006/2007	Scored out of 100	No studies/primary AOR: 2.16 (95% Cl	total: 2
		stage sample).		(=28,296)	based on 10	1.76–2.63), p=0.227	lotal score: 6
		Data were		Time point 2:	equally weighted	2012	
		collected by		2011/2012	components:	Secondary AOR: 1.96 (95% CI 1.42–	
		personal		(n=20,920)	consumption of	2.71), p<0.001	
		interviews and			cereals and	No studies/primary AOR: 2.86 (95% Cl	
		all the			derivatives;	2.12–3.87), p<0.001	
		information			vegetables; fruits;	SHEI by social class (skilled manual	
		included was			milk and	work = ref) :	
		self-reported.			derivatives; meat,	<u>2006</u>	
		Adults only.			fish and eggs;	Unskilled manual work AOR: 1.54 (95%	
		49.1% (2006)			pulses; sausages	CI 1.32–1.79), p<0.001	
		and 50.1%			and cold meats;	<u>2012</u>	
		(2011).			sweets; soft	Unskilled manual work AOR: 1.81 (95%	
		N= 28,296 in			drinks with sugar;	CI 1.50–2.18), p<0.001	
		2006/2007 and			and variety of the	SHEI by employment situation (paid	
		20,920 in			diet, based on the	worker = ref)	
		2011/12			Spanish Healthy	<u>2006</u>	
					Eating Guide. This	Unemployed AOR: 0.74 (95% CI 0.62–	
					was then made	0.90), p<0.005	
					into a categorical	Homemakers AOR: 0.36 (95% CI 0.28–	
					variable with a	0.47), p<0.001	
					'good' diet as a	<u>2012</u>	

					score over 80, a	Unemployed AOR: 1.27 (95% CI 1.05–	
					'needs	1.55), p<0.005	
					improvement'	Homemakers AOR: 1.11 (95% CI 0.85–	
					diet as 51-80. and	1.45), p=0.443	
					a 'poor' diet as	- //	
					less than 50.		
Todd.	National:	National Health	Serial Cross-	Exposure:	Self-reported	Born 1946-85	Selection total:
2014	USA	and Nutrition	sectional.	Commence-	dietary guality	Excellent - 2007-08: 7.6%, 2009-10:	3
	Local: n/a	Examination	Weighted means	ment of GR	(excellent, verv	7.9%	Comparability
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Survey (NHANES	reported and Person	(time)	good, good, fair	Very good - 2007-08: 22.1%, 2009-10:	total: 2
		– Consumer	Chi-Squared test	Time point 1:	or poor).	21.2%	Outcomes
		Behaviour Adult	accounting for	2005-2006	Collected in the	Good - 2007-08: 40.1%, 2009-10:	total: 1
		follow-up	complex survey	(n=3.014)	Diet Behaviour	44.0%	Total score: 6
		survey).	design.	Time point 2:	dataset.	Fair - 2007-08: 23.0%. 2009-10: 22.5%	
		Adults born		2007-2008		Poor - 2007-08: 7.1%, 2009-10: 4.5%	
		between 1946		(n=3.294)		Pearson Chi-squared = 2.63 p= 0.053	
		and 1985 (aged		Time point 3:		Born before 1946	
		20-59 in 2005-6		2009-2010		Excellent - 2007-08: 15 3% 2009-10	
		and 25-64 2009-		(n=3 531)		16.3%	
		10)		(0)00=/		Very good - 2007-08: 30 0% 2009-10:	
		N=9829				31.4%	
		N-3023				Good - 2007-08: 38 2% 2009-10	
						40.4%	
						Fair - 2007-08: 13 2% 2009-10: 9 3%	
						Poor - 2007-08: 3 3% 2009-10: 2.5%	
						Pearson Chi-squared = 1.565 n= 0.194	
Food Groups						1 carson cm squarea = 1.505, p=0.154	
	, National	National Health	Serial cross-sectional	Exposure:	Dichotomised	Meat: 2005/06: 79% ves 2014: 29%	Selection total
2019	Portugal	Interview	Lised Ingistic	Commence-	consumption of	AOR: 1 004	3
Ref	Local n/a	Survey	regression to model	ment of GR	food on the	Soup: 2005/6: 68% ves 2014: 64%	Comparability
Net.		Begional and	consumption as a	(time)	nrevious day	$\Delta OR \cdot 0.779 (P < 0.01)$	total: 1
		multistago	function of yoar	Time point 1:	(voc/no) for most	Eich: $2005/6$, 52% yes: 2014 , 40%	
		stratified	controlling for ago	2005/2006	soup fish	AOP 0 811 (D=0 01)	total: 1
		suduileu	controlling for age,	2003/2000	soup, iisii,	AUN. 0.011 (PS0.01) Detataos / rice / pasta: 2005 /6: 0.0%	
		Sampling.	SEX difu euucation.	2014	polaloes/ file/	1000000000000000000000000000000000000	Total score: 5
		Adults aged 25-		2014	pasta, pread,	yes, 2014: 89%, AUK: 0.973	
		79, 46% male.			legumes, sweets,		

		N=43.273			fruits and	Bread: 2005/6: 93% ves. 2014: 92%.	
		(28.144 in			vegetables.	AOR: 0.912	
		2005/2006).			-0	Legumes: 2005/6: 27% ves. 2014: 32%.	
		,,				AOR: 1.336 (P<0.01)	
						Sweets: 2005/6: 26% ves. 2014: 37%.	
						AOR: 1.536	
						Fruits: 2005/6: 82% ves. 2014: 73%	
						AOR: 0.502 (P<0.01)	
						Vegetables: 2005/6: 78% ves 2014:	
						52% AOR: 0 446 (P<0 01)	
						Only significant change across	
						subpopulation was for	
						notatoes/rice/nasta in ages 40-64	
						All groups: 0.95	
						No/pre-primary education: 0.92	
						Primary/secondary education: 1.15	
						Tertiary education: 0.89	
						Note that Alves considered these	
						changes to be reflective of long-term	
						declines in the Mediterranean diet	
						rather than due to the GR	
Antelo	National:	National	Longitudinal survey	Exposure:	Data on food	DiD estimates with Gaussian kernel	Selection total:
2017	Spain	household	Used Propensity	time (boom	expenditure by	Matching for crisis impact/UEFE	3
2017	Local: n/a	budget survey	Score Matching with	and crisis	household	Bread cereals rice and pasta crisis	Comparability
	Localinya	Households	Gaussian kernel	periods)	collected for two	effect: $-0.164(-6.13)$ (p at 1% level)	total: 2
		with an active	methods and a	Time point 1	weeks	Meat crisis effect:	Outcomes
		breadwinner	difference-in-	2006 (boom)	Expenditure on:	-0.158(-3.55) (n at 1% level)	total: 2
		over 16 Male	difference approach	Time point 2	bread cereals	Fish crisis effect:	Total score: 7
		dominated	to examine the	2013 (crisis)	rice and pasta:	-0.192(-2.91) (p at 1% level)	
		households	impact of the	Investigated	meat: fish: milk	Milk cheese and eggs crisis effect.	
		went from a	economic crisis on	Unemployme	cheese and eggs.	- 0.082 (- 2.19) (n at 5% level)	
		mean of 0.81 to	Unemployment	nt Effect on	oils and fats:	Oils and fats crisis effect:	
		0.70.	Effect on Food	Food	fruits: vegetables	- 0.073 (- 1.03)	
		N= 12.480 in	Expenditure (UEEE)	Expenditure in	pulses, potatoes	Fruits crisis effect:	
		2006 and	Controlled for age	boom and	and other root	-0.304(-6.20) (p at 1% level)	
		14,215 in 2013.	sex, household size.	crisis periods	crops; sugar, jam.		

			marital status, education, home ownership, residential area, other houses, number of home- cooked meals, and region.	(unemployme nt rate was 4.8% in 2006 and 15.5% in 2013).	honey, chocolate, sweets and ice cream.	Vegetables, pulses, potatoes and other root crops crisis effect: – 0.173 (– 4.10) (p at 1% level) Sugar, jam, honey, chocolate, sweets and ice cream crisis effect: – 0.106 (– 1.83) (p at 10% level)	
Asgeirs- dottir, 2014	National: Iceland Local: n/a	(Icelandic) Health and Wellbeing survey, weighted and using stratified random sampling. Adults aged 18 – 79. Unweighted: 48.9% male completed 2009 survey, 46.6% when weighted. N = 7688. Response rate 60.8% in 2007 and 69.3% in 2009.	Longitudinal. Used fixed effects models using pooled data. Time-varying covariates are married, cohabiting, lives with adult other than partner, and lives in rural area.	Exposure: Commence- ment of GR (time) Time point 1: 2007 Time point 2: 2009	Outcome variables: daily sugared soft drink, daily sweets, weekly consumption of fast food (either at a fast food restaurant or by taking home prepared foods), daily consumption of fruit or berries, daily consumption of cooked or raw vegetables.	Excluding cases with missing data (n=5616) and including time-varying covariates: Soft drink: - 0.016 (p<0.01) Sweets: - 0.023 (p<0.01) Fast food: - 0.048 (p<0.01) Fruit/berries: - 0.018 (p<0.1) Vegetables: - 0.028 (p<0.01) Working age subset: Soft drink: - 0.017 (p<0.01) Sweets: - 0.024 (p<0.01) Fast food: - 0.067 (p<0.01) Fruit/berries: - 0.013 (p<0.1) Vegetables: - 0.025 (p<0.01)	Selection total: 3 Comparability total: 2 Outcomes total: 2 Total score: 7
Asgeirs- dottir, 2016	National: Iceland Local: n/a	(Icelandic) Health and Wellbeing survey. Stratified random sampling. Aged 18 – 79 but generally	Longitudinal. Fixed effects models, covariates included married, cohabiting, lives with adult other than partner, lives in rural area, and homeowner.	Exposure: Commence- ment of GR (time) Time point 1: 2007 Time point 2: 2009 Time point 3:	Outcome variables: daily sugared soft drink, daily sweets, weekly consumption of fast food (either at a fast food restaurant or by	Analysis sample with time-varying covariates: Soft drinks: Effect of 2009 indicator: -0.013 (p < 0.01) Effect of 2012 indicator: - 0.027 (p < 0.10) p-Value for difference between 2009 and 2012: 0.056	Selection total: 3 Comparability total: 2 Outcomes total: 2 Total score: 7

		older than		2012	taking home	R-squared: 0.009	
		Icelandic			prepared foods),	Sweets:	
		population so			daily	Effect of 2009 indicator: -0.021 (p <	
		sample weights			consumption of	0.10)	
		applied. 46% of			fruit or berries.	Effect of 2012 indicator: - 0.008	
		those who				p-Value for difference between 2009	
		completed all				and 2012: 0.109	
		three surveys				R-squared: 0.008	
		were male.				Fast food:	
		33% of those				Effect of 2009 indicator: - 0.053 (p <	
		who completed				0.10)	
		the 2007 survey				Effect of 2012 indicator: - 0.071 (p <	
		also completed				0.10)	
		the 2009 and				p-Value for difference between 2009	
		2012 surveys,				and 2012: 0.126	
		N=3238.				R-squared: 0.023	
						Fruit/berries:	
						Effect of 2009 indicator: -0.029 (p <	
						0.05)	
						Effect of 2012 indicator: $0.049 (p < 0.1)$	
						p-Value for difference between 2009	
						and 2012: <0.001	
						R-squared: 0.015	
Bartoll,	National:	Spanish	Repeated cross-	Exposure:	Daily	Vegetables:	Selection total:
2015	Spain	National Health	sectional.	Commence-	consumption	MEN	3
	Local: n/a	Survey	Before-after model	ment of GR	(yes/no) of	Overall: -0.002 (0.0141)	Comparability
		Adults aged 25-	(linear probability	(time)	vegetables, fruit.	Employment status	total: 2
		64.	regression model).	Time point 1:	Binary variable	Employed: 0.009 (0.0150),	Outcomes
		N=47,156.	All models are	2001	for consumption	unemployed -0.063 (0.0448),	total: 2
		Response rates	adjusted by age,	(n=9,252)	three or more	p (a) 0.004	Total score: 7
		among eligible	age ² , marital status,	Time point 2:	times a week of	Education level	
		units in the last	region of residence	2003/2004	legumes, fish,	University -0.004 (0.0316),	
		three waves	(autonomous	(n=10,840)	meat, processed	High secondary 0.038 (0.0289),	
		were 77%, 70%,	community), type of	Time point 3:	meat (eg. salami,	Lower secondary or primary - 0.013	
		72%	residential area	2006/2007	sausages), sweet	(0.0194), without any qualification	
			(rural/urban),	(n=15,470)		- 0.068 (0.0734), p (b) 0.385.	

occupation and linear	Time point 4.	foods (eg. jam	WOMEN	
time trend	2011/2012	cookies).	Overall: $-0.024 (0.0150)$	
(a) Significance of t-	(n=11.594)		Employment status	
test of the	(11 11,00 1)		Employed: -0.017 (0.0166)	
interaction between			(0.0100)	
			n (a) 0.065	
dummy and			Fducation level	
amployment status			Lipixorsity = 0.012 (0.0287)	
(h) Significance of			$U_{11}^{(1)}$ U $U_{12}^{(1)}$ $U_$	
(D) Significance of			High secondary 0.034 (0.0313),	
likelihood ratio of the			Lower secondary or primary –0.030	
model with and			(0.0222), without any qualification	
without interaction			-0.271 (0.0795) p<0.01, p (b) 0.004	
between economic			Fruit:	
recession and			MEN	
education level.			<i>Overall</i> : -0.091 (0.0146) p<0.01	
Robust standard			Employment status	
errors in			Employed: –0.074 (0.0154) p<0.01,	
parentheses.			unemployed –0.121 (0.0498) p<0.05,	
			p (a) 0.041	
			Education level	
			University – 0.045 (0.0319),	
			High secondary – 0.061 p<0.05	
			(0.0289), lower secondary or primary	
			– 0.114 (0.02040) p<0.01, without any	
			qualification – 0.218 p<0.01 (0.0729),	
			p (b) 0.060.	
			WOMEN	
			<i>Overall</i> : – 0.079 (0.0144) p<0.01	
			Employment status	
			Employed: -0.071 (0.0159) p<0.01,	
			unemployed -0.106 (0.0345) p<0.01.	
			p (a) 0.315	
			Education level	
			University -0.058 (0.0268) p<0.05	
			High secondary -0.048 (0.0301), lower	
			secondary or primary –0.092 (0.0216)	

p<0.01, without any qualification
–0.151 (0.0781) p<0.1, p (b) 0.429
Legumes:
MEN
<i>Overall:</i> 0.034 (0.0135) p<0.05
Employment status
Employed: 0.038 (0.0142) p<0.01,
unemployed –0.074 (0.0479),
p (a) 0.041
Education level
University 0.040 (0.0281).
High secondary 0.010 (0.0280).
Lower secondary or primary 0.038
(0.0194) m < 0.05 without any
(0.013 i) p(0.003) introduction
n (b) 0.621
CVertuin. 0.045 (0.0150) p<0.01
Employment status
Employed: 0.039 (0.0151) p<0.05,
unemployed 0.057 (0.0325) p<0.1,
p (a) 0.392
Education level
University 0.051 (0.0256) p<0.1,
High secondary 0.038 (0.0274),
Lower secondary or primary 0.045
(0.0207) p<0.05, without any
qualification –0.105 (0.0781),
p (b) 0.314
Fish:
MEN
<i>Overall</i> : –0.001 (0.0144)
Employment status
Employed: 0.012 (0.0152),
unemployed -0.068 (0.0501).
p (a) 0.055

			Education level	
			University –0.020 (0.0319),	
			High secondary 0.001 (0.0293),	
			Lower secondary or primary 0.004	
			(0.0200), without any qualification	
			-0.003 (0.0728), p (b) 0.937	
			WOMEN	
			Employment status	
			Employed: 0.002 (0.0166),	
			unemployed –0.007 (0.0354),	
			p (a) 0.437	
			Education level	
			University 0.042 (0.0287),	
			High secondary –0.006 (0.0307),	
			Lower secondary or primary –0.013	
			(0.0222), without any qualification	
			-0.048 (0.0840), p (b) 0.570	
			Meat:	
			MEN	
			<i>Overall</i> : −0.097 (0.0125) p<0.01	
			Employment status	
			Employed: -0.093 (0.0131) p<0.01,	
			unemployed –0.110 (0.0457) p<0.05,	
			p (a) 0.229	
			Education level	
			University -0.093 (0.0281) p<0.01,	
			High secondary –0.079 (0.0251)	
			p<0.01, Lower secondary or primary	
			–0.092 (0.0175) p<0.01, without any	
			qualification -0.268 (0.0705) p<0.01,	
			p (b) 0.092	
			WOMEN	
			<i>Overall:</i> -0.100 (0.0135) p<0.01	
			Employment status	

Employed: -0.097 (0.0149) p<0.01, unemployed -0.109 (0.0328) p<0.01, p (a) 0.567
unemployed –0.109 (0.0328) p<0.01, p (a) 0.567
p (a) 0.567
Education level
University –0.093 (0.0258) p<0.01,
High secondary –0.089 (0.0287)
p<0.01, Lower secondary or primary
-0.104 (0.0197) p<0.01, without any
gualification -0.211 (0.0808) p<0.01,
p (b) 0.541
Cold Meat:
MEN
Overall: -0.047 (0.0148) p<0.01
Employment status
Employed: $-0.047 (0.0157) n < 0.01$
Employed. -0.047 (0.0157) p<0.01,
unemployed =0.005 (0.0490),
University –0.085 (0.0323) p<0.01,
High secondary –0.026 (0.0304),
Lower secondary or primary –0.036
(0.0205) p<0.1, without any
qualification -0.173 (0.0806) p<0.05,
p (b) 0.203
WOMEN
<i>Overall</i> : -0.037 (0.0145) p<0.05
Employment status
Employed: -0.029 (0.0161) p<0.1,
unemployed –0.065 (0.0344) p<0.1,
p (a) 0.836
Education level
University –0.054 (0.0276) p<0.1.
High secondary –0.058 (0.0297) n<0.1.
Lower secondary or primary –0.019
(0.0218) without any qualification
-0.099 (0.0777) p (b) 0.558

						Sweets:	
						MEN	
						$\frac{MEN}{Overall: 0.012 (0.0149)}$	
						Employment status	
						Employed: 0.007 (0.0158)	
						Employed: 0.007 (0.0158),	
						Unemployed 0.011 (0.0491),	
						p (a) 0.272	
						Education level	
						University $-0.017 (0.0325)$,	
						High secondary 0.025 (0.0306),	
						Lower secondary or primary 0.031	
						(0.0208), without any qualification	
						–0.169 (0.0785) p<0.05, p (b) 0.067	
						WOMEN	
						<i>Overall:</i> 0.001 (0.0152)	
						Employment status	
						Employed: 0.002 (0.0168),	
						unemployed –0.004 (0.0361),	
						p (a) 0.921	
						Education level	
						University 0.024 (0.0289),	
						High secondary –0.011 (0.0312),	
						Lower secondary/ primary 0.001	
						(0.0226), without any qualification	
						–0.039 (0.0848), p (b) 0.806	
Bonaccio	National:	Moli-Sani study.	Serial cross-sectional	Exposure:	Animal proteins,	Animal proteins:	Selection total:
et al, 2014	Italy	Adults aged	study of participants	Commence-	vegetarian	2005/6: 55.1 (18.7), 2007-2010: 56.4	3
Ref:	Local: the	over 35 (mean	recruited before and	ment of GR	proteins, animal	(17.0), p-value <0.0001	Comparability
	Molise	age 54.4);	after the recession.	(time).	fats and	Vegetarian proteins:	total: 2
	region	percentage	Means and p-values	Time point 1:	vegetable fats in	2005/6: 29.6 (11.1), 2007-2010: 28.7	Outcomes
	0	male: 47.30%.	of intake in	Recruited in	grams/day	(9.9), p-value <0.0001	total: 2
		Randomly	grams/day adjusted	2005-2006	(means + SD)	Animal fats:	Total score: 7
		, recruited.	for age and sex.	(n=6999)	using Italian EPIC	2005/6: 44.2 (18.8), 2007-2010: 45.3	
		Total n=21,001.	Ŭ	Time point 2:	food frequency	(17.0), p-value < 0.0001	
		- ,		Recruited in	questionnaire.	Vegetarian fats:	
				2007-2010			
				(n=14.002)		2005/6: 33.1 (11.8). 2007-2010: 32.5	
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						(10.6), p-value <0.0001	
Colman &	National:	National	Longitudinal.	Exposure:	Fast food per	Fast food:	Selection total:
Dave. 2018	USA	Longitudinal	Separate fixed-effect	Unemploy-	week (In the past	MEANS: 2008: 1.7. 2010: 1.5. 2012:	4
	Local: n/a	Survey of	regressions	ment (own)	seven days how	1 5 2014 1 3	Comparability
		Youth-1979.	controlling for age.	Time point 1:	many times did	FEFECTS OF UNEMPLOYMENT BY	total: 1
		A nationally	marital status state	2008	you eat food from	REASON FOR UNEMPLOYMENT	Outcomes
		representative	of residence, and	Time point 2:	a fast food	Nonemployed:	total: 2
		sample of	month	2010	restaurant such	All: $-0.37(0.070)$ (significant at 1%)	Total score: 7
		12.686 young		Time point 3:	as McDonalds.	Non-movers: -0.34 (0.084) (significant	
		men and		2012	Kentucky Fried	at 1%).	
		women who		Time point 4:	Chicken, Pizza	Unemployed:	
		were 14–22		2014	Hut. or Taco	All: -0.49 (0.14) (significant at 1%).	
		vears old when		-	Bell?), snacks per	Non-movers: -0.44 (0.16) (significant	
		they were first			week, soft drinks	at 1%),	
		, surveyed in			per week	Laid off:	
		, 1979 (food and				All: -0.29 (0.22),	
		drink data				Non-movers: -0.34 (0.27)	
		collected from				Plant closed:	
		2008).				All: –0.50 (0.44),	
		N=7100 in 2014.				Non-movers: -0.59 (0.51)	
						Snacks:	
						MEANS: 2008: 6.3, 2010: 6.2, 2012:	
						6.1, 2014: 6.6	
						EFFECTS OF UNEMPLOYMENT BY	
						REASON FOR UNEMPLOYMENT:	
						Nonemployed:	
						All: 0.18 (0.25),	
						Non-movers 0.18 (0.28),	
						Unemployed:	
						All: –0.26 (0.43),	
						Non-movers: -0.11 (0.51),	
						Laid off:	
						All: 0.45 (0.59),	
						Non-movers: 0.91 (0.67)	
						Plant closed:	

						All: -0.14 (1.06),	
						Non-movers: -0.66 (1.18)	
						Soft drinks:	
						MEANS: 2008: 3.9. 2010: 3.4. 2012:	
						3.1. 2014: 2.9	
						FEFECTS OF UNEMPLOYMENT BY	
						REASON FOR UNEMPLOYMENT	
						Nonemployed:	
						AII: -0.15(0.19)	
						Non-movers $-0.22 (0.22)$	
						Linemployed:	
						Non-movers: $-0.18(0.46)$	
						Laid off	
						$A \parallel : -0.74 (0.50)$	
						Non-movers: $-0.99(0.61)$	
						Plant closed:	
						Non-movers: $-0.15(0.70)$	
Cirakli &	National	OFCD data	Lised ARDL bounds	Exposure:	Lised OFCD data	Result of ADE Unit Boot Test:	Selection total:
Vildirim	Turkov		testing and	Commence-	on annual per	level values t: -2.43×0.138 first	2
2019	Local: n/a		cointegration	ment of GR	canita vegetable	difference values: t: -7 16 (significant	Comparability
2015			analysis including	(time) using	and fruit	at 1% level) $n < 0.001$	total: 1
			OIS: unit root tests		consumption (kg)	Result of ABDL correction model:	Outcomes
			Augmented Dickey		consumption (kg)	Change D 2009: coefficient: 0.051 t:	total: 1
			Fuller Test	ment rates		$2 139 \text{ n} \cdot 0.042$	
			Unrestricted Error	inflation rate		(significant positive impact on fruit and	
			Correction Model	as indicators		(significant positive impact on mult and	
				of crises			
			test estimation of	Time: 1974-			
			long-term	2015 (42 time			
			coefficients and	points)			
			creation of Error	covering			
			Correction Model	oconomic			
				crisos in 1004			
				2001 2000			
				2001, 2009).			

Dave et al.,	National:	Behavioural Risk	Serial cross-sectional.	Exposure:	How often do you	Fruit:	Selection total:
2012	USA	Factor	Reduced-form cross-	Area-level	eat (FOOD) with	State unemployment: -0.1494 (0.0451)	3
	Local: n/a	Surveillance	equation (fixed	unemploy-	options of times	(p<0.01)	Comparability
		System. Adults	effects) estimates of	ment rates.	per day, week,	Male: –6.6536 (0.2100) (p<0.01)	total: 2
		aged between	the average effect of	Time: 1990 –	month, or year	Some high school: -2.9580 (0.4090)	Outcomes
		26-58.	state unemployment	2009	for fruit, fruit	(p<0.01)	total: 2
		N (fruit) =	on healthy and	(excluding	juice, carrots,	High School: -1.5104 (0.4957) (p<0.01)	Total score: 7
		1,354,093	unhealthy food	2004, 2006	green salad,	Some college: 1.2394 (0.5265) (p<0.05)	
		N (fruit juice) =	consumption	and 2008).	vegetables,	College: 6.3012 (0.5294) (p<0.01)	
		1,357,023	seemingly unrelated		snacks,	Age: –0.1147 (0.0316) (p<0.01)	
		N (carrots) =	regression.		hamburgers, hot	Age squared: 0.0033 (0.0004) (p<0.01)	
		1,344,014	Controlled for		dogs, French fries,	Black: 0.3630 (0.3553)	
		N (green salad)	gender, education,		fried chicken, and	Hispanic: 3.2468 (0.4478) (p<0.01)	
		= 1,357,023	age, marital status,		doughnuts.	Other race: 1.0008 (0.5885) (p<0.1)	
		N (vegetables) =	ethnicity and state			Fruit juice:	
		1,349, 973	indicators.			State unemployment: -0.1406 (0.0492)	
		N (snacks) =				(p<0.01)	
		56,376				Male: 1.9020 (0.1619) (p<0.01)	
		N hamburgers)				Some high school: -1.5162 (0.3097)	
		= 56,742				(p<0.01)	
		N (hot dogs) =				High School: -1.3282 (0.4140) (p<0.01)	
		56,586				Some college: -0.0554 (0.4594)	
		N (French fries)				College: 0.8333 (0.4808) (p<0.1)	
		= 56,467				Age: –0.8824 (0.0273) (p<0.01)	
		N (fried chicken)				Age squared: 0.0098 (0.0003) (p<0.01)	
		= 56,528				Black: 7.3910 (0.2541) (p<0.01)	
		N (doughnuts) =				Hispanic: 5.6835 (0.4354) (p<0.01)	
		56,428				Other race: 3.7315 (0.3987) (p<0.01)	
						Carrots:	
						State unemployment: -0.1051 (0.0222)	
						(p<0.01)	
						Male: -1.7989 (0.0555) (p<0.01)	
						Some high school: -1.2052 (0.2242)	
						(p<0.01)	
						High School: -0.8552 (0.2666) (p<0.01)	
						Some college: 0.1453 (0.2863)	

			College: 1.0244 (0.2945) (p<0.01)	
			Age: 0.2381 (0.0161) (p<0.01)	
			Age squared: -0.0020 (0.0002)	
			(p<0.01)	
			Black: –0.8415 (0.1054) (p<0.01)	
			Hispanic: 1.6735 (0.1748) (p<0.01)	
			Other race: 0.7720 (0.2129) (p<0.01)	
			Green salad:	
			State unemployment: -0.0894 (0.0321)	
			(p<0.01)	
			Male: –2.9886 (0.0687) (p<0.01)	
			Some high school: 0.1686 (0.1331)	
			High School: 1.5524 (0.1578) (p<0.01)	
			Some college: 3.3623 (0.1964) (p<0.01)	
			College: 5.2470 (0.2051) (p<0.01)	
			Age: 0.2560 (0.0196) (p<0.01)	
			Age squared: -0.0015 (0.0002)	
			(p<0.01)	
			Black: –0.7445 (0.1536) (p<0.01)	
			Hispanic: 1.5114 (0.2731) (p<0.01)	
			Other race: 0.0837 (0.2419)	
			Vegetables:	
			State unemployment: -0.0997 (0.0712)	
			Male: -6.8483 (0.2285) (p<0.01)	
			Some high school: 2.1519 (0.3098)	
			(p<0.01)	
			High School: 4.4294 (0.3490) (p<0.01)	
			Some college: 8.3667 (0.3556) (p<0.01)	
			College: 12.2960 (0.3824) (p<0.01)	
			Age: 0.0737 (0.0266) (p<0.01)	
			Age squared: -0.0004 (0.0003)	
			Black: -2.8057 (0.4086) (p<0.01)	
			Hispanic: -7.4141 (0.7634) (p<0.01)	
			Other race: 0.7997 (0.7680)	
			Snacks:	

			State unemployment: 0.1860 (0.1061)	
			(p<0.1)	
			Male: 0.6343 (0.1160) (p<0.01)	
			Some high school: 2.0369 (0.4282)	
			(p<0.01)	
			High School: 1.6495 (0.4167) (p<0.01)	
			Some college: 1.0825 (0.4678) (p<0.05)	
			College: 0.5646 (0.4752)	
			Age: 0.0768 (0.0777)	
			Age squared: $-0.0026(0.0009)$	
			(n<0.01)	
			(p < 0.01) Black: $-0.7003 (0.3244) (p < 0.05)$	
			Hispanic: $-1.6512 (0.3306) (n<0.01)$	
			Other race: $-1.4626 (0.3809) (p<0.01)$	
			Hamburgers:	
			State upomployment: 0.0270 (0.0607)	
			M_{2} (0.0697)	
			Male. 1.8570 (0.0766) ($p<0.01$)	
			Some nign school: 0.4917 (0.3082)	
			High School: 0.0888 (0.2864)	
			Some college: $-0.3641 (0.2857)$	
			College: -1.4603 (0.3362) (p<0.01)	
			Age: -0.0280 (0.0294)	
			Age squared: -0.0008 (0.0004)	
			(p<0.05)	
			Black: –0.6633 (0.1932) (p<0.01)	
			Hispanic: -0.8492 (0.1274) (p<0.01)	
			Other race: –0.1696 (0.3522)	
			Hot dogs:	
			State unemployment: 0.0766 (0.1567)	
			Male: 3.3519 (0.1798) (p<0.01)	
			Some high school: 1.0307 (0.4678)	
			(p<0.05)	
			High School: -0.3194 (0.3365)	
			Some college: –1.1975 (0.3859)	
			(p<0.01)	
			College: −2.4662 (0.3513) (p<0.01)	

1				
			Age: -0.2279 (0.0775) (p<0.01)	
			Age squared: 0.0014 (0.0009)	
			Black: –0.8830 (0.2041) (p<0.01)	
			Hispanic: -0.8022 (0.2380) (p<0.01)	
			Other race: -0.6258 (0.4391)	
			French fries	
			State unemployment: 0.0116 (0.1021)	
			Male: 2.3808 (0.1188) (p<0.01)	
			Some high school: -0.5574 (0.3325)	
			High School: -1.3748 (0.3650) (p<0.01)	
			Some college: -2.0336 (0.3693)	
			(p<0.01)	
			College: -2.7835 (0.3672) (p<0.01)	
			Age: -0.1912 (0.0288) (p<0.01)	
			Age squared: 0.0007 (0.0003) (p<0.05)	
			Black: -0.5871 (0.2280) (p<0.05)	
			Hispanic: -0.1536 (0.1992)	
			Other race: -0.0350 (0.1671)	
			Fried chicken:	
			State unemployment: 0.0782 (0.0591)	
			Male: 0.9190 (0.1060) (p<0.01)	
			Some high school: 0.0258 (0.3215)	
			High School: -0.8157 (0.1851) (p<0.01)	
			Some college: -1.2040 (0.2094)	
			(p<0.01)	
			College: -1.8284 (0.2314) (p<0.01)	
			Age: 0.0371 (0.0370)	
			Age squared: -0.0006 (0.0005)	
			Black: 3.1662 (0.1238) (p<0.01)	
			Hispanic: 1.0068 (0.1875) (p<0.01)	
			Other race: 1.4597 (0.2047) (p<0.01)	
			Doughnuts:	
			State unemployment: 0.1079 (0.1434)	
			Male: 0.5286 (0.1785) (p<0.01)	
			Some high school: -0.0171 (0.4621)	
			High School: -0.8243 (0.4170) (p<0.1)	

						Some college: -1.0546 (0.5096)	
						(p<0.05)	
						College: -1.1150 (0.4393) (p<0.05)	
						Age: 0.1816 (0.0998) (p<0.1)	
						Age squared: -0.0024 (0.0012) (p<0.1)	
						Black: –1.1121 (0.2311) (p<0.01)	
						Hispanic: -1.2748 (0.3503) (p<0.01)	
						Other race: -1.6652 (0.5399) (p<0.01)	
Di Pietro,	National:	Italian	Serial cross-sectional.	Two measures	Dichotomous	Fruit & vegetables:	Selection total:
2018	Italy	Multipurpose	Reduced form	of unemploy-	variable -	Eq. 1 general unemployment rate:	3
	Local: n/a	Household	demand function	ment rate are	whether	0.0048 (0.0036)	Comparability
		Survey on	(linear probability	used: a	respondent	Eq. 2 general unemployment rate:	total: 2
		Everyday Life	models estimated	general	regularly	0.0052 (0.0036)	Outcomes
		Issues.	with OLS). All	unemploy-	consumes at least	Eq. 3: unemployment rate by gender	total: 2
		Age 25-54.	equations include	ment and	5 daily servings of	and age group:	Total score: 7
		Maximum	fixed effects for	unemploy-	fruits and/or	– 0.0017 (0.0007) (p<0.05)	
		n=189.631	region and year in	ment rate by	vegetables or	n= 160,060	
			addition to controls	age group and	snacks high in salt	Snacks:	
			for education, age,	gender is	(eg. French fries,	Eq. 1 general unemployment rate:	
			marital status and	used. Data on	popcorn).	- 0.0003 (0.0007)	
			gender. Eq. (2)	both		Eq. 2 general unemployment rate:	
			contains region-	unemploy-		- 0.0007 (0.0008)	
			specific linear time	ment rates		Eq. 3: unemployment rate by gender	
			trends. Eq. (3)	come from		and age group:	
			contains linear time	the ISTAT.		- 0.0006 (0.0003) (p<0.5)	
			trends in age group	Time:		n= 158,844	
			by gender specific to	2005-2012			
			each region and fixed				
			effects for the				
			interaction between				
			year and region.				
Díaz-	National:	National Health	Serial Cross-	Exposure:	Daily	Fruit:	Selection total:
Méndez &	Spain	Survey.	sectional.	Commence-	consumption of	Time Trend 2006-2011: diverging from	3
García-	Local: n/a	Adults aged 16	Logistic regression.	ment of GR	fruit and	the guidelines, with frequency of	Comparability
Espejo,		and above.	Age, sex, education,	(time)	vegetables (Y/N),	consumption falling.	total: 2
2019			parental occupation	Time point 1:	three times a	Logistic Regression:	

	2006 (n=29,478)	(for SES), size of	2006	week or more	Sex (base: woman) 2006: -0.513	Outcomes
	2011 n=21,007).	community,	Time point 2:	consumption of	(p<0.01). 2011: -0.412 (p<0.01)	total: 1
	All data	nationality, marital	2011	meat or fish,	Age (base: under 30 years old)	Total score: 6
	weighted using	status, presence of		less than once a	30-44: 2006: 0.385 (p<0.01). 2011:	
	original	minors in the		week/seldom or	0.295 (p<0.01)	
	weighting	household,		never (vs. more	45-59: 2006: 1.018 (p<0.05). 2011:	
	variable for	employment		frequent)	0.858 (p<0.01)	
	each year.	situation, BMI, being		consumption of	60-74: 2006: 1.571 (p<0.01). 2011:	
		on a diet and physical		cookies, pastries,	1.198 (p<0.01)	
		activity included in		sweetened	Over 74: 2006: 1.770 (p<0.01). 2011:	
		model.		cereals, jelly and	1.401 (p<0.01)	
				candy (based on	Education level (base: none)	
				healthy diet	Primary education: 2006: 0.112, 2011:	
				guidelines).	0.272 (p<0.01)	
					General secondary: 2006 0.122	
					(p<0.1), 2011: 0.269 (p<0.01)	
					Vocational training: 2006 0.187	
					(p<0.05), 2011: 0.263 (p<0.01)	
					University: 2006 0.282 (p<0.01), 2011:	
					0.427 (p<0.01)	
					Unemployed (base: employed)	
					2006: -0.184 (p<0.01), 2011: -0.213	
					(p<0.01)	
					Social class of breadwinner (base: non-	
					skilled workers)	
					Public administration directors and	
					directors of companies with 10 or	
					more workers and professionals	
					associated with a graduate degree:	
					2006: 0.192 (p<0.05), 2011: 0.254	
					(p<0.01)	
					Executives of public administration and	
					of companies with fewer than 10	
					workers, professionals associated with	
					university degrees:	
					2006: 0.079, 2011: 0.178 (p<0.05)	

			Administrative support and	
			professionals	
			$2006 \cdot 0.100 (n < 0.1) 2011 \cdot 0.122$	
			(p<0.1)	
			(p<0.1) Skilled mean veloverkere	
			2006: 0.076, 2011: 0.107 (p<0.1)	
			Semi-skilled manual workers	
			2006: 0.035, 2011: 0.102 (p<0.1)	
			Vegetables:	
			Time Trend 2006-2011: diverging from	
			the guidelines, with frequency of	
			consumption falling.	
			Logistic Regression:	
			Sex (base: woman): 2006: -0.510	
			(p<0.01). 2011: -0.507 (p<0.01)	
			Age (base: under 30 years old)	
			30-44: 2006: 0.276 (p<0.01). 2011:	
			0.356 (p<0.01)	
			45-59: 2006: 0.628 (p<0.01). 2011:	
			0.692 (p<0.01)	
			60-74: 2006: 0.768 (p<0.01). 2011:	
			0.982 (p<0.01)	
			Over 74: 2006: 0 735 ($p<0.01$) 2011:	
			1 037 (n<0 01)	
			Education level (base: none)	
			Primary education:	
			$2006 \cdot 0.021, 2011 \cdot 0.252 (p<0.01)$	
			Conoral cocondany:	
			General secondary. 2006: 0.061, 2011: 0.444 ($\pi < 0.01$)	
			2006: 0.061, 2011: 0.444 (β<0.01)	
			2006 0.007, 2011: 0.473 (p<0.01)	
			University:	
			2006: 0.168, 2011: 0.604 (p<0.01)	
			Unemployed (base: employed)	
			2006: -0.006, 2011: -0.219 (p<0.01)	

	Sc	ocial class of breadwinner (base: non-	
	sk	killed workers)	
	Pu	Public administration directors and	
	di	lirectors of companies with 10 or	
	m	nore workers and professionals	
	as	ssociated with a graduate degree	
	20	2006: 0.388 (p<0.01), 2011: 0.385	
	(p	p<0.01)	
	Ex	xecutives of public administration and	
	of	of companies with fewer than 10	
	w	vorkers, professionals associated with	
	u	iniversity degrees 2006: 0.286	
	a)	p<0.01), 2011: 0.197 (p<0.01)	
	A	Administrative support and	
	Iq	professionals: 2006: 0.233 (p<0.01).	
	20	2011: 0.201 (p<0.01)	
	S	killed manual workers: 2006: 0.192	
	(n	p<0.01), 2011; 0.153 (p<0.01)	
	Se	emi-skilled manual workers	
	20	2006: 0.204 (p<0.01), 2011: 0.114	
	()	p<0.05)	
	N	Aeat:	
	Ti	Time Trend 2006-2011: most of the	
	p	population still within guidelines, but	
	th	he % of those reducing consumption	
	is	s on the rise.	
		ogistic Regression:	
	Se	ex (base: woman) 2006: 0.044, 2011:	
	0.	0.152 (p<0.01)	
	A	Age (base: under 30 years old)	
	3(0-44. 20060.057. 20110.077	
	4	5-59: 2006: -0.229 (p<0.01). 2011:	
	-0	0.231 (p<0.01)	
	6	50-74·2006·-0 150 (p<0.1) 2011·	
	-0	0.407 (p<0.01)	
	0	Over 74: 2006: - 0.206 (p<0.05). 2011:	

		-		
			-0.435 (p<0.01)	
			Education level (base: none)	
			Primary education: 2006: 0.221	
			(p<0.01), 2011: 0.289 (p<0.01)	
			General secondary: 2006: 0.209	
			(p<0.01), 2011: 0.104 (p<0.1)	
			Vocational training: 2006: 0.170	
			(p<0.01), 2011: 0.160 (p<0.05)	
			University: 2006 0.319 (p<0.01), 2011:	
			0.210 (p<0.01)	
			Unemployed (base: employed)	
			2006 -0.080 2011: -0.072	
			Social class of breadwinner (base: non-	
			skilled workers)	
			Public administration directors and	
			directors of companies with 10 or	
			more workers and professionals	
			associated with a graduate degree	
			2006: 0.038, 2011: 0.043	
			Executives of public administration and	
			of companies with fewer than 10	
			workers, professionals associated with	
			university degrees:	
			2006: 0.060, 2011: -0.023	
			Administrative support and	
			professionals:	
			2006: 0.050, 2011: 0.109 (p<0.05)	
			Skilled manual workers: 2006: 0.152	
			(p<0.01), 2011: 0.121 (p<0.05)	
			Semi-skilled manual workers:	
			2006: 0.057, 2011: 0.088 (p<0.1)	
			Fish:	
			Time Trend 2006-2011: diverging from	
			the guidelines, with frequency of	
			consumption falling.	
			Logistic Regression:	

			Administrative support and	
			professionals	
			2006: 0.023, 2011: -0.028	
			Skilled manual workers	
			2006: 0.024, 2011: -0.036	
			Semi-skilled manual workers	
			2006: 0.045, 2011: -0.100	
			Sweets:	
			Time trend 2006-2011: Approaching	
			closer to the guidelines with frequency	
			of consumption falling.	
			Logistic Regression:	
			Sex (base: woman)	
			2006: 0.092 (p<0.01). 2011: 0.033	
			Age (base: under 30 years old)	
			30-44: 2006: 0.275 (p<0.01). 2011	
			0.252 (p<0.01)	
			45-59: 2006: 0.479 (p<0.01). 2011:	
			0.582 (p<0.01)	
			60-74: 2006: 0.393 (p<0.01). 2011:	
			0.685 (p<0.01)	
			Over 74: 2006: 0.046, 2011: 0.455	
			(n<0.01)	
			Education level (base: none)	
			Primary education: 2006: -0 188	
			(n<0.01) 2011: -0.271 $(n<0.01)$	
			General secondary: 2006: -0.063, 2011:	
			-0.314 (n<0.01)	
			Vocational training: 2006: -0.149	
			(n<0.05) 2011: -0.429 (n<0.01)	
			(p < 0.05), 2011, -0.425 (p < 0.01)	
			-0.382 (p<0.01)	
			Linemployed (base: employed)	
			$2006 \cdot 0.077$ $2011 \cdot 0.082$ (pc0.1)	
			2000. 0.077, 2011. 0.005 (p<0.1)	
			social class of preadwinner (pase: non-	
			skilled workers)	

						Public administration directors and	
						directors of companies with 10 or	
						more workers and professionals	
						associated with a graduate degree	
						2006: 0 112, 2011: 0 157 (n<0.05)	
						Executives of public administration and	
						of companies with fewer than 10	
						workers professionals associated with	
						university degrees	
						2006: 0.027. 2011: 0.107	
						Administrative support and	
						Automistrative support and professionals 2006: 0.051, 2011: 0.125	
						(n < 0.05)	
						(p<0.05) Skilled manual workers	
						2006: -0.019, 2011: 0.033	
				-		2006: -0.001, 2011: -0.001	
Duquenne,	National:	Stratified	Exploratory factor	Exposure:	Questionnaire	Pasta: 0./// (component 1)	Selection total:
2014	Greece	random sample	analysis and	change over	which asked	Type of consumption behaviours: no	2
	Local:	of Greek	hierarchical cluster	time	about impact of	change 43%, limited reduction 10%,	Comparability
	Thessaly	households.	analysis.	Time point:	Great Recession	high reduction 7%, change of brand	total: 2
		N=932	1 corresponds to no	not stated	on diet.	37%, abandonment 2%	Outcomes
			change nor reduction		Change for pasta,	Potatoes: 0.775 (component 1)	total: 2
			in the consumption,		potatoes, olive	Type of consumption behaviours: no	Total score: 6
			2: limited reduction		oil, rice, bread,	change 47%, limited reduction 11%,	
			(less than 10 per		vegetables, milk,	high reduction 9%, change of brand	
			cent), 3: relatively		fruits, beef, sheep	28%, abandonment 4%	
			important reduction		and goat, pork,	Olive oil: 0.750 (component 1)	
			(more than 10 per		cold cuts, chicken,	Type of consumption behaviours: no	
			cent), 4: change of		fish, sweets,	change 43%, limited reduction 15%,	
			food brand (less		cheese, feta.	high reduction 10%, change of brand	
			expensive) and 5:			28%, abandonment 4%	
			abandonment of			Rice: 0.747 (component 1)	
			consumption or			Type of consumption behaviours: no	
			abandonment of			change 40%, limited reduction 11%,	
			supply through the				

market, follow	ng	high reduction 8%, change of brand
alternative sup	bly	39%, abandonment 3%
modes (own		Bread: 0.707 (component 1)
production,		Type of consumption behaviours: no
especially in ca	e of	change 52%, limited reduction 13%,
vegetables).		high reduction 11%, change of brand
Reporting patt	rn	19%, abandonment 5%
matrix of facto		Vegetables: 0.638 (component 1)
analysis and %	of	Type of consumption behaviours: no
behaviour chai	ge.	change 47%, limited reduction 14%,
Component 1:		high reduction 12%, change of brand
relatively limite	d	22%, abandonment 5%
impact of crisis	on	Milk: 0.591 (component 1)
consumers		Type of consumption behaviours: no
behaviour.		change 51%, limited reduction 11%,
Component 2:		high reduction 6%, change of brand
component 2,	nore	28%, abandonment 5%
impacted by cr	sis,	Fruits: 0.590 (component 1)
>60% of house	have	Type of consumption behaviours: no
changed their		change 42%, limited reduction 15%,
behaviour &		high reduction 15%, change of brand
abandonment	5	23%, abandonment 5%
quite significar		Beef: 0.664 (component 2)
		Type of consumption behaviours: no
		change 35%, limited reduction 14%,
		high reduction 18%, change of brand
		18%, abandonment 16%
		Sheep and goat: 0.618 (component 2)
		Type of consumption behaviours: no
		change 26%, limited reduction 9%,
		high reduction 17%, change of brand
		15%, abandonment 33%
		Pork: 0.615 (component 2)
		Type of consumption behaviours: no
		change 37%, limited reduction 15%,

						high reduction 18% change of brand	
						10% abandonmont 11%	
						19%, abandonment 11%	
						The standard component 2)	
						Type of consumption benaviours: no	
						change 28%, limited reduction 8%,	
						high reduction 17%, change of brand	
						26%, abandonment 22%	
						Chicken: 0.594 (component 2)	
						Type of consumption behaviours: no	
						change 47%, limited reduction 16%,	
						high reduction 11%, change of brand	
						21%, abandonment 5%	
						Fish: 0.563 (component 2)	
						Type of consumption behaviours: no	
						change 36%, limited reduction 12%,	
						high reduction 20%, change of brand	
						20%. abandonment 12%	
						Sweets: 0.547 (component 2)	
						Type of consumption behaviours: no	
						change 26%, limited reduction 9%.	
						high reduction 21% change of brand	
						21% abandonment 24%	
						Chaese: 0.545 (component 2)	
						Type of consumption behaviours: no	
						change 28% limited reduction 8%	
						high reduction 15%, shange of brand	
						11gh reduction 15%, change of brand	
						27%, abandonment 22%	
						Feta: 0.508 (component 2)	
						Type of consumption behaviours: no	
						change 38%, limited reduction 13%,	
						high reduction 11%, change of brand	
					-	30%, abandonment 8%	
Filippidis	National:	Hellas Health	Serial Cross-	Exposure:	5 or more fruit	Proportion of Greek adults who	Selection total:
et al, 2014	Greece	surveys.	sectional.	Commence-	and vegetables	reported consumption of at least five	2
	Local: n/a	Adults aged	Outcome-specific	ment of GR	per day (self-	portions of fruit and vegetables per	Comparability
		between 18 –	trends and	(time)	reported)		total: 2

69.	Random	differences between	Time point 1:	day, by demographic and socio-	Outcomes
san	mnling	surveys were	2006	economic variables (% 95% CI)	total: 2
Per	rcentage	assessed by using	Time point 2.	Total	Total score: 6
ma	ale and N.	linear coefficients in	2008	2006: 21 2 (18 6–23 7)	
200	$06^{\circ} n = 1005$	a hinary logistic	Time point 3.	2008: 9 1 (7 6–10 6):	
ma	ale: 18 1%	regression model	2011	2000.5.1(7.0-10.0), 2011.71(5.6-8.7)	
200	$102 \cdot n = 1/100$	Polynomials were	2011	2011.7.1(3.0-8.7). 2006-08% change: $-57.01%$ (p<0.001)	
200	100.11 - 1430,	doveloped to account		2000-00% change: $-57.01%$ (p<0.001),	
201	11. n = 1000	for variations in time		$2006 \cdot 2011 \%$ change. -21.34%	
201	11: N=1008,	for variations in time		2006-11: -66.27% (β<0.001)	
ma	ale: 48.0%	between survey		Gender	
		years. Results were			
		adjusted for gender		2006: 23.2 (19.4–27.0);	
		and age.		2008: 8.4 (19.4–27.0);	
				2011: 5.6 (3.5–7.6).	
				2006-08 % change: -63.86% (p<0.001),	
				2008-2011 % change: -33.33%,	
				2006-11 % change: -75.91% (p<0.001)	
				Female:	
				2006: 19.3 (15.9–22.7;	
				2008: 9.8 (7.7–11.9);	
				2011: 8.6 (6.2–11.0).	
				2006-08 % change: -49.48% (p<0.001),	
				2008-2011 % change: –12.08%,	
				2006-11 % change: -55.58% (p<0.001)	
				Socio-economic status	
				Higher:	
				2006: 27.0 (20.2–33.7);	
				2008: 8.0 (5.2–10.7)	
				2011: 8.4 (4.7–12.1).	
				2006-08 % change: -70.43 % (p<0.001).	
				2008-2011 % change: +5.23%	
				2006-11 % change: -68.79% (p<0.001)	
				Middle:	
				2006: 18 1 (14 5–21 6):	
				$2008 \cdot 9 \times (75 - 1210),$	
				2011.89(62–115)	

						2006-08 % change: -45.68% (p<0.001), 2008-2011 % change: -9.58%, 2006-11 % change: -50.89% (p<0.001) Lower: 2006: 22.4 (18.1-26.6); 2008: 9.0 (6.5-11.6); 2011: 4.1 (2.0-6.2). 2006-08 % change: -59.63% (p<0.001), 2008-2011 % change: -54.82% (p<0.01), 2006-11 % change: -81.76% (p<0.001)	
Filippidis et al, 2017	National: Greece Local: n/a	Hellas Health surveys. Adults (over 18). Percentage male and N: 2006: n= 1005, male: 48.1%, 2008: n=1490, male: 47.6% 2010: n= 1000, male: 50.6% 2011: n=1008, male: 48.0% 2015: n=1001, male: 48.0%	Serial Cross- sectional. Interrupted time series analysis (2010 as "intervention" year. Risk Ratio (RR) adjusted for age, gender, area of residence, education, occupation and SES.	Exposure: Commence- ment of GR (time) Time point 1: 2006 Time point 2: 2008 Time point 3: 2010 Time point 4: 2011 Time point 5: 2015	Low fruit and vegetable consumption (two or less servings a day)	2008: 52.1% (49.6 to 54.7) 2010: n/a 2011: 51.3% (48.2 to 54.4) 2015: 51.2% (47.9 to 54.6) RR (2015 vs pre-crisis): 1.00 (0.92 to 1.09)	Selection total: 2 Comparability total: 2 Outcomes total: 2 Total score: 6
Florkowski , 2012	National: Poland Local: n/a	The study is based on data obtained from annual Glowny Urzad Statystyczny surveys of Polish households.	Serial cross-sectional. Households average yearly expenditure.	Exposure: Commence- ment of GR (time) Time point 1: 2004 Time point 2: 2005 Time point 3: 2006	Average expenditure on bread, pasta and flour, offal and offal products, barley, pork, chicken, seafood, freshwater fish, milk, farmers cheese, hard	Bread: 2006: All households, n= 6794, average expenditure: 47.60 Households above minimum income, n= 3900, average expenditure: 51.59 Households at or below minimum income, n= 2894, average expenditure: 42.23 2007:	Selection total: 2 Comparability total: 0 Outcomes total: 1 Total score: 3

		Time point 4:	cheese eggs	All households n= 5897 average	
		2007	margarine	expenditure: 52.66	
		ZUU7	margarine,	Llausshelds shows minimum insome	
		Time point 5:	vegetable oli,		
		2008	animal fat, citrus,	n= 3484, average expenditure: 58.14	
			apples and	Households at or below minimum	
			potatoes (in	income, n= 2413, average expenditure:	
			zloty).	47.20	
				2008:	
				All households, n= 5789, average	
				expenditure: 58.48	
				Households above minimum income.	
				n= 3505, average expenditure: 63.65	
				Households at or below minimum	
				income n= 2284 average expenditure	
				Deste and flour	
				Pasta and nour:	
				2006:	
				All households, n= 12466 average	
				expenditure: 12.73	
				Households above minimum income,	
				n= 6299, average expenditure: 12.93	
				Households at or below minimum	
				income, n=6167, average expenditure:	
				12.52	
				2007:	
				All households. n= 11036. average	
				expenditure: 14.23	
				Households above minimum income	
				n= 5873 average expenditure: 14.68	
				Households at or below minimum	
				income n= 5162 average evenenditure	
				income, n- 5105, average experioriture:	
				13./3	
				2008:	
				All households, n= 967, average	
				expenditure: 16.79	

			Households above minimum income,	
			n= 720, average expenditure: 17.25	
			Households at or below minimum	
			income, n= 247, average expenditure:	
			15.47	
			Offal and offal products:	
			2004 (not available for 2005-2007):	
			All households, n= 3377, average	
			expenditure: 78.35	
			Households above minimum income,	
			n= 1822, average expenditure: 84.64	
			Households at or below minimum	
			income, n=1555, average expenditure:	
			70.98	
			2008:	
			All households, n= 1579, average	
			expenditure: 82.83	
			Households above minimum income,	
			n= 935, average expenditure: 88.93	
			Households at or below minimum	
			income, n= 644, average expenditure:	
			73.98	
			Barley:	
			2006:	
			All households, n= 8065, average	
			expenditure: 3.37	
			Households above minimum income,	
			n= 3754, average expenditure: 3.27	
			Households at or below minimum	
			income, n= 4311, average expenditure:	
			3.46	
			2007:	
			All households, n= 6971, average	
			expenditure: 3.82	
			Households above minimum income,	
			n= 3404, average expenditure: 3.82	

			the search adds and an inclusion in the second	
			Households at or below minimum	
			income, n= 2567, average expenditure:	
			3.83	
			Pork:	
			2006:	
			All households, n= 17754, average	
			expenditure: 47.00	
			Households above minimum income,	
			n= 9171, average expenditure: 49.79	
			Households at or below minimum	
			income, n= 8583, average expenditure:	
			44.03	
			2007:	
			All households, n= 15996, average	
			expenditure: 51.40	
			Households above minimum income,	
			n= 8645, average expenditure: 54.76	
			Households at or below minimum	
			income, n= 7351, average expenditure:	
			47.45	
			2008:	
			All households, n= 16100, average	
			expenditure: 53.01	
			Households above minimum income,	
			n= 9079, average expenditure: 56.28	
			Households at or below minimum	
			income, n=8021, average expenditure:	
			48.78	
			Chicken:	
			2006:	
			All households, n= 18799, average	
			expenditure: 26.52	
			Households above minimum income,	
			n= 9604, average expenditure: 28.52	

			Households at as holow minimum	
			Households at of below minimum	
			income, n= 9195, average expenditure:	
			24.43	
			2007:	
			All households, n= 16754, average	
			expenditure: 30.93	
			Households above minimum income,	
			n= 8956, average expenditure: 33.78	
			Households at or below minimum	
			income, n= 7798, average expenditure:	
			27.65	
			2008:	
			All households, n= 16866, average	
			expenditure: 31.61	
			Households above minimum income,	
			n= 7467, average expenditure: 34.29	
			Households at or below minimum	
			income, n= 7399 average expenditure:	
			28.19	
			Seafood:	
			2006:	
			All households, n= 9202, average	
			expenditure: 16.32	
			Households above minimum income.	
			n= 4909, average expenditure: 17.29	
			Households at or below minimum	
			income $n=4293$ average expenditure:	
			15 21	
			2007	
			All households n= 8285 average	
			expenditure: 17 16	
			Households above minimum income	
			n=4522 average expenditure: 18.16	
			Households at or below minimum	
			income n= 2762 average expenditures	
			income, n= 5705 average expenditure:	
			12.90	

			2008:	
			All households, n= 8156, average	
			expenditure: 17.31	
			Households above minimum income,	
			n= 4628, average expenditure: 18.14	
			Households at or below minimum	
			income, n= 3528, average expenditure:	
			16.22	
			Freshwater fish:	
			2006:	
			All households, n= 1633, average	
			expenditure: 25.21	
			Households above minimum income	
			n = 860 average expenditure: 26.43	
			Households at or below minimum	
			income n= 773 average expenditure:	
			23 84	
			2007	
			All households n= 1932 average	
			avnenditure: 24.90	
			Households above minimum income	
			n= 1107 average expenditure: 25.96	
			Households at or holow minimum	
			households at of below minimum	
			income, n= 625, average expenditure.	
			23.40	
			2008. All householde in 2475 overege	
			All households, h= 2475, average	
			expenditure: 23.27	
			Households above minimum income,	
			n= 1431, average expenditure: 24.15	
			Households at or below minimum	
			income, n= 1044, average expenditure:	
			22.06	
			Milk:	
			2006:	

				1
			All households, n= 13541, average	
			expenditure: 18.65	
			Households above minimum income,	
			n= 6967, average expenditure: 18.00	
			Households at or below minimum	
			income, n= 6574, average expenditure:	
			19.33	
			2007:	
			All households, n= 12317, average	
			expenditure: 19.68	
			Households above minimum income,	
			n= 6631, average expenditure: 19.32	
			Households at or below minimum	
			income, n= 5686, average expenditure:	
			20.10	
			2008:	
			All households, n= 12330, average	
			expenditure: 21.10	
			Households above minimum income,	
			n= 6901, average expenditure: 21.09	
			Households at or below minimum	
			income, n= 5429, average expenditure:	
			21.10	
			Farmers cheese:	
			2006:	
			All households, n= 19227, average	
			expenditure: 17.13	
			Households above minimum income,	
			n= 9943, average expenditure: 18.63	
			Households at or below minimum	
			income, n= 9284, average expenditure:	
			15.53	
			2007:	
			All households, n= 16961, average	
			expenditure: 17.55	

			Households above minimum income,	
			n= 9176, average expenditure: 18.93	
			Households at or below minimum	
			income, n= 7785, average expenditure:	
			15.93	
			2008:	
			All households, n= 16910, average	
			expenditure: 18.87	
			Households above minimum income.	
			n= 9486, average expenditure: 20.22	
			Households at or below minimum	
			income n= 7424 average expenditure:	
			17 14	
			Hard cheese:	
			2006	
			All households n= 19053 average	
			An nousenolus, n= 19053, average	
			Households above minimum income	
			n= 10264 average expenditures 22.00	
			II- 10204, average experimine. 22.00	
			Households at or below minimum	
			income, n= 8789, average expenditure:	
			14.79	
			2007:	
			All households, n= 16867, average	
			expenditure: 20.15	
			Households above minimum income,	
			n= 9459, average expenditure: 23.81	
			Households at or below minimum	
			income, n= 7408, average expenditure:	
			15.48	
			2008:	
			All households, n= 16965, average	
			expenditure: 21.40	
			Households above minimum income,	
			n= 9876, average expenditure: 24.91	

			Households at or below minimum	
			income, n= 7089, average expenditure:	
			16.51	
			Eggs:	
			2006:	
			All households, n= 19566, average	
			expenditure: 15.42	
			Households above minimum income,	
			n= 9868, average expenditure: 16.16	
			Households at or below minimum	
			income, n= 9698, average expenditure:	
			14.67	
			2007:	
			All households, n= 17236 average	
			expenditure:16.32	
			Households above minimum income,	
			n=9070, average expenditure: 17.15	
			Households at or below minimum	
			income, n= 8166, average expenditure:	
			15.41	
			2008:	
			All households, n= 17042, average	
			expenditure: 16.76	
			Households above minimum income,	
			n= 9396, average expenditure: 17.73	
			Households at or below minimum	
			income, n= 7646, average expenditure:	
			15.57	
			Margarine:	
			2006:	
			All households, n= 17602, average	
			expenditure: 10.19	
			Households above minimum income.	
			n= 8972, average expenditure: 10.89	

			Households at or below minimum	
			income, n= 8630, average expenditure:	
			9.46	
			2007:	
			All households, n= 15713, average	
			expenditure: 10.60	
			Households above minimum income,	
			n= 8423, average expenditure: 11.44	
			Households at or below minimum	
			income, n= 7290, average expenditure:	
			9.63	
			2008:	
			All households, n= 15463, average	
			expenditure: 11.95	
			Households above minimum income,	
			n= 8721, average expenditure:12.91	
			Households at or below minimum	
			income, n=6742, average expenditure:	
			10.71	
			Vegetable oil:	
			2006:	
			All households, n= 14636, average	
			expenditure: 8.16	
			Households above minimum income,	
			n= 7449, average expenditure: 8.39	
			Households at or below minimum	
			income, n= 7187, average expenditure:	
			7.92	
			2007:	
			All households, n= 13073, average	
			expenditure: 8.86	
			Households above minimum income,	
			n= 7041, average expenditure: 9.22	
			Households at or below minimum	
			income, n= 6032, average expenditure:	
			8.43	

			2008:	
			All households, n= 13036, average	
			expenditure: 10.69	
			Households above minimum income,	
			n= 7300, average expenditure: 11.14	
			Households at or below minimum	
			income, n= 5736, average expenditure:	
			10.11	
			Animal fat:	
			2006:	
			All households, n= 8494, average	
			expenditure: 7.37	
			Households above minimum income,	
			n= 3910, average expenditure: 7.34	
			Households at or below minimum	
			income, n= 4584, average expenditure:	
			7.40	
			2007:	
			All households, n= 7440, average	
			expenditure: 7.65	
			Households above minimum income,	
			n= 3595, average expenditure: 7.64	
			Households at or below minimum	
			income, n= 3845, average expenditure:	
			7.66	
			2008:	
			All households, n= 6920, average	
			expenditure: 7.86	
			Households above minimum income,	
			n= 3502, average expenditure: 7.85	
			Households at or below minimum	
			income, n= 3418, average expenditure:	
			7.86	
			Citrus:	
			2006:	

			All households n= 14E01 average	
			All households, II= 14591, average	
			expenditure: 9.38	
			Households above minimum income,	
			n= 7644, average expenditure: 10.18	
			Households at or below minimum	
			income, n= 6947, average expenditure:	
			8.50	
			2007:	
			All households, n= 13293, average	
			expenditure: 10.70	
			Households above minimum income,	
			n=7206, average expenditure: 11.63	
			Households at or below minimum	
			income, n= 6087, average expenditure:	
			9.60	
			2008:	
			All households, n= 13106, average	
			expenditure: 11.32	
			Households above minimum income.	
			n= 7388. average expenditure: 12.26	
			Households at or below minimum	
			income, n= 5718, average expenditure:	
			10.11	
			Apples:	
			2006:	
			All households n= 16751 average	
			expenditure: 10.80	
			Households above minimum income	
			n= 8605 average expenditure: 11.40	
			Households at or holew minimum	
			income n= 9146 average evenenditures	
			10 17	
			10.17	
			2007:	
			All households, n=14439, average	
			expenditure: 12.48	

			Households above minimum income,	
			n= 7710, average expenditure: 13.02	
			Households at or below minimum	
			income, n= 6729, average expenditure:	
			11.85	
			2008:	
			All households, n= 14120, average	
			expenditure: 12.37	
			Households above minimum income.	
			n= 7797. average expenditure: 12.79	
			Households at or below minimum	
			income, n= 6323, average expenditure:	
			11.86	
			Potatoes:	
			2006:	
			All households. n= 17347. average	
			expenditure: 21.31	
			Households above minimum income.	
			n= 8632. average expenditure: 21.96	
			Households at or below minimum	
			income, n= 8715, average expenditure:	
			20.67	
			2007:	
			All households, n= 15302, average	
			expenditure: 23.01	
			Households above minimum income.	
			n= 7975, average expenditure: 23.98	
			Households at or below minimum	
			income, n= 7327, average expenditure:	
			21.97	
			2008:	
			All households, n= 15035. average	
			expenditure: 18.02	
			Households above minimum income	
			n= 8192, average expenditure: 18.88	

						Households at or below minimum	
						income. n= 6843. average expenditure:	
						17.00	
García-	National:	Spanish	Serial Cross-	Exposure:	Daily fruit,	Fruit:	Selection total:
Mayor	Spain	National Health	sectional.	Commence-	vegetable,	Proportion consuming fruit daily:	3
	Local: n/a	Survey.	Descriptive analysis	ment of GR	pastries and	2006: Men 59.7% (95% CI 58.3–61.0),	Comparability
		Adults aged 18-	estimating	(time)	sweets,	women: 71.4% (95% CI 70.4–72.3)	total: 2
		64	frequencies.	Time point 1:	sweetened	2012: Men 56.3% (95% CI 54.8–57.9),	Outcomes
		N=72,574	Multivariate logistic	2006,	beverage, intake	women: 64.2% (95% C 62.9–65.6)	total: 2
			regression adjusting	Time point 2:	(Y/N)	2017: Men:55.1% (95% CI 53.6–56.7),	Total score: 7
			for age, gender and	2012		women: 66.5% (95% CI 65.2–67.7)	
			social class.	Time point 3:		Multinomial logistic regression	
				2017		stratified by social class by examining	
						health indicators in men	
						Daily fruit consumption:	
						High social class:	
						2012: 0.90 (0.78–1.05)	
						2017: 0.84 (0.72–0.97) p < 0.05.	
						Middle social class:	
						2012: 0.87 (0.75–1.00)	
						2017: 0.81 (0.70–0.93) p < 0.01.	
						Low social class:	
						2012: 0.83 (0.76–0.90) p < 0.001.	
						2017: 0.72 (0.66–0.79) p < 0.001.	
						In women:	
						Daily fruit consumption:	
						High social class:	
						2012: 0.70 (0.61–0.81) p < 0.001.	
						2017: 0.98 (0.85–1.14)	
						Middle social class:	
						2012: 0.68 (0.59–0.78) p < 0.001.	
						2017: 0.70 (0.61–0.80) p < 0.001.	
						Low social class:	
						2012: 0.72 (0.67–0.79) p < 0.001.	
						2017: 0.69 (0.63–0.75) p < 0.001.	
						Vegetables	

			Proportion consuming vegetables	
			daily:	
			2006: Men 35.0% (95% Cl 33.3–36.8),	
			women: 48.2% (95% Cl 47.0–49.5)	
			2012: Men 39.8% (95% Cl 38.0–41.6,	
			women: 51.7% (95% Cl 50.2–53.3)	
			2017: Men: 32.9% (95% Cl 31.1–34.8),	
			women: 47.5% (95% Cl 45.9–49.1)	
			Multinomial logistic regression	
			stratified by social class by examining	
			health indicators in men	
			Daily veg consumption:	
			High social class:	
			2012: 1.37 (1.19–1.58) p < 0.001.	
			2017: 0.99 (0.85–1.14)	
			Middle social class:	
			2012: 1.30 (1.13–1.50) p < 0.001.	
			2017: 0.87 (0.75–1.00)	
			Low social class:	
			2012: 1.14 (1.05–1.25) p < 0.01.	
			2017: 0.82 (0.75–0.90) p < 0.001.	
			In women:	
			Daily veg consumption:	
			High social class:	
			2012: 1.19 (1.05–1.36) p < 0.01.	
			2017: 1.10 (0.97–1.25)	
			Middle social class:	
			2012: 1.26 (1.11–1.42) p < 0.001.	
			2017: 0.92 (0.82–1.04)	
			Low social class:	
			2012: 1.14 (1.06–1.24) p < 0.01.	
			2017: 0.92 (0.85–0.99) p < 0.05	
			Pastries and sweets	
			Proportion consuming pastries and	
			sweets daily	

			2006: Men 34.0% (95% Cl 32.2–35.7),	
			women: 35.9% (95% Cl 34.4–37.3)	
			2012: Men 29.6% (95% Cl 27.6–31.5),	
			women: 29.2% (95% Cl 27.3–31.1)	
			2017: Men: 25.2% (95% Cl 23.2–27.2),	
			women: 26.6% (95% Cl 24.8–28.5)	
			Multinomial logistic regression	
			stratified by social class by examining	
			health indicators in men	
			Daily consumption:	
			High social class:	
			2012: 0.87 (0.75–1.01)	
			2017: 0.64 (0.54–0.75) p < 0.001	
			Middle social class:	
			2012: 0.71 (0.61–0.83) p < 0.001	
			2017: 0.64 (0.54–0.74) p < 0.001	
			Low social class:	
			2012: 0.64 (0.54–0.74) p < 0.001.	
			2017: 0.68 (0.62–0.75) p < 0.001	
			In women:	
			Daily consumption:	
			High social class:	
			2012: 0.79 (0.69–0.91) p < 0.01	
			2017: 00.61 (0.53–0.70) p < 0.001	
			Middle social class:	
			2012: 0.71 (0.62–0.81) p < 0.001	
			2017: 0.67 (0.58–0.76) p < 0.001	
			Low social class:	
			2012: 0.75 (0.69–0.82) p < 0.001	
			2017: 0.68 (0.62–0.74) p < 0.001	
			Sweetened drinks	
			Proportion consuming sweetened	
			drinks daily	
			2006: Men 20.2% (95% Cl 18.3–22.2),	
			women: 13.6% (95% Cl 12.0–15.3)	

						2012: Men 15.5% (95% Cl 13.4–17.7),	
						women: 10.1% (95% Cl 7.9–12.2)	
						2017: Men: 11.3% (95% Cl 9.1–13.4),	
						women: 8.6% (95% Cl 6.5–10.7)	
						Multinomial logistic regression	
						stratified by social class by examining	
						health indicators in men	
						Daily consumption:	
						High social class:	
						2012: 0.43 (0.33–0.56) p < 0.001.	
						2017: 0.75 (0.60–0.93) p < 0.001.	
						Middle social class:	
						2012: 0.69 (0.56–0.85) p < 0.001.	
						2017: 0.59 (0.47–0.73) p < 0.001.	
						Low social class:	
						2012: 0.73 (0.66–0.82) p < 0.001.	
						2017: 0.56 (0.50–0.63) p < 0.001.	
						In women:	
						Daily consumption:	
						High social class:	
						2012: 0.74 (0.58–0.95) p < 0.05.	
						2017: 0.47 (0.36–0.63) p < 0.001.	
						Middle social class:	
						2012: 0.73 (0.59–0.90) p < 0.01.	
						2017: 0.65 (0.52–0.81) p < 0.001.	
						Low social class:	
						2012: 0.67 (0.60–0.75) p < 0.001.	
						2017: 0.65 (0.58–0.73) p < 0.001.	
Griffith et	National: UK	Kantar	Longitudinal study.	Exposure:	Healthy Eating	Healthy Eating (HEI) score	Selection total:
al, 2016a	Local: n/a	Worldpanel	HEI scores and	Commence-	(HEI) score for	<u>Total fruit:</u>	3
		data for UK	percentage change.	ment of GR	fruit, vegetables,	Max score: 5	Comparability
		households.		(time)	grains, milk,	Mean in 2005-7: 3.06	total: 2
		n=14,694.		Time point 1:	meat, oils.	Change to 2010-12: - 0.02	Outcomes
				2005-2007,	Share of calories	Percentage change to 2010-12: - 0.7	total: 2
				Time point 2:	from fruit,	Whole fruit:	Total score: 7
				2010-12	vegetables,	Max score: 5	

cheese and fats, Change to 2010-12: 0.08	
poultry and fish, Percentage change to 2010-12: 2	4
red meat and <u>Total vegetables:</u>	
nuts, drinks, Max score: 5	
prepared sweet Mean in 2005-7: 3.20	
and prepared Change to 2010-12: - 0.13	
savoury. Outcome Percentage change to 2010-12: -	4.1
data of food <u>Dark green/orange vegetables</u> :	
purchases from Max score: 5	
all types of stores Mean in 2005-7: 1.61	
using an Change to 2010-12: 0.00	
electronic hand- Percentage change to 2010-12: 0	00
held scanner in Total grains:	
the home. Max score: 5	
Mean in 2005-7: 3.69	
Change to 2010-12: - 0.03	
Percentage change to 2010-12: -).8
Whole grains:	
Max score: 5	
Mean in 2005-7: 1.55	
Change to 2010-12: - 0.11	
Percentage change to 2010-12: -	7.1
Milk	
Max score: 10	
Mean in 2005-7: 5.28	
Change to 2010-12: -0.05	
Percentage change to 2010-12: -(.9
Meat	
Max score: 10	
Mean in 2005-7: 7 96	
Change to 2010-12 ⁻ -0 22	
Percentage change to 2010-12' -	2.8

				Character 2010 12: 0.10			
				Change to 2010-12: - 0.18			
				Percentage change to 2010-12: -3.7			
				Share of calories			
				<u>Fruit</u>			
				2005-7: 5.08			
				2010-12: 5.28			
				Change: 0.20, Percentage change: 3.86			
				<u>Vegetables</u>			
				2005-7: 6.97			
				2010-12: 6.43			
				Change: - 0.54, Percentage change:			
				- 7.81			
				<u>Grains</u>			
				2005-7: 16.40			
				2010-12: 16.65			
				Change: 0.24, Percentage change: 1.48			
				<u>Dairy</u>			
				2005-7: 9.53			
				2010-12: 9.49			
				Change: - 0.04, Percentage change:			
				- 0.46			
				Cheese and fats			
				2005-7: 11.73			
				2010-12: 11.73			
				Change: 0.01. Percentage change: 0.06			
				Poultry and fish			
				2005-7:3.09			
				2010-12:3 30			
				Change: 0.21 Percentage change: 6.87			
				Red meat and nuts			
				2005-7:8 34			
				2010-12: 7 84			
				Change: - 0.51 Percentage change:			
				- 6 07			
				Drinks			
		1	<u> </u>	2005-7:1.87	1		
						2010-12.1 82	
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						Change: - 0.04 Percentage change:	
						- 2 36	
						Prenared sweet	
						2005_{-7} , 19.06	
						2005-7. 19.00	
						2010-12, 19.55 Change: 0.47 December 2, 47	
						Change: 0.47, Percentage change: 2.47	
						Prepared savoury	
						2005-7: 14.78	
						2010-12: 14.82	
						Change: 0.04, Percentage change: 0.30	
Griffith et	National: UK	National Food	Serial cross-sectional	Exposure:	Calories	Eating out and fast food: Equivalised	Selection total:
al, 2016b	Local: n/a	Survey, Family	Change in calories	Commence-	percentage	daily expenditure:	3
		Expenditure	and expenditure.	ment of GR	change and	1980: 1.17, 2007: 1.61, 2013: 1.53,	Comparability
		Survey/Living	Calorie density	(time)	expenditure	Percentage change: 1980-2007: 37.5	total: 2
		Costs and Food	calculated using	Time point 1:	percentage	Percentage change 2007-13: -4.9	Outcomes
		Survey.	backcasting:	1980 – 2007	change over two	Backcast calorie density 1:	total: 1
		Households.	Backcast 1 captures	Time point 2:	time periods on	demographic variation in calorie	Total score: 6
		N not stated.	the cross-household	2007 - 2013	eating out and	density:	
			variation by including		fast food (food	1980: 220, 2007: 279, 2013: 256,	
			the household		eaten at	Percentage change: 1980-2007: 27.1,	
			characteristics		restaurants,	Percentage change 2007-13: –8.3	
			(employment status,		cafes, bars,	Backcast calorie density 2:	
			age, household		bistros, fast food	demographic variation & time	
			structure,		outlets and	variation in calorie density:	
			interactions between		takeaways),	1980: 267, 2007: 268, 2013: 255,	
			time effects and age		confectionary and	Percentage change: 1980-2007: 0.6	
			and time effects and		soft drinks (in and	Percentage change 2007-13: -1.0%	
			employment status)		outside the	Calorie shares: 1980: 7.9, 2007: 12.4,	
			and assumes that		home). Also for	2013: 11.7.	
			variation is entirely		foods eaten	Percentage change: 1980-2013: +3.8	
			driven by changes in		inside the home:	Confectionary and soft drinks:	
			these characteristics.		grains, meat.	Equivalised daily expenditure:	
			Backcast 2 includes		cooking oil and	1980: 0.26, 2007: 0.37, 2013: 0.33	
			seasonal variation		fats, fruits and	Percentage change: 1980-2007. 39 4	
			and changes in the		vegetables, dairy	Percentage change $2007-13:-10.4\%$	

	prices of food at	products, sugary	Backcast calorie density 1:	
	home and food	products and	demographic variation in calorie	
	group, and includes a	preserves (e.g.	density:	
	second-order	iams etc.). fruit	, 1980: 88. 2007: 117. 2013: 106.	
	polynomial in log	and vegetables.	Percentage change: 1980-2007: 32.9	
	total expenditures	cheese, eggs.	Percentage change 2007-13: -9.3	
	for all food and drink.	other (including	Backcast calorie density 2:	
	as well as for food at	ready meals) and	demographic variation & time	
	home	fish. Expenditure	variation in calorie density:	
		is equivalized	1980: 78. 2007: 113. 2013: 118.	
		using the OFCD	Percentage change: 1980-2007: 44.2.	
		Oxford scale.	Percentage change 2007-13: 5.1	
		Calories are	Calorie shares: 1980: 3.2, 2007: 5.2.	
		reported per	2013: 4.9.	
		person per day.	Percentage change: 1980-2013: +1.7	
		they are	Grains (at home):	
		individually	Calories:	
		allocated using	1980: 845.	
		daily	Percentage change: 1980-2007: -14.8.	
		recommended	Percentage change: 2007-13: -2.6	
		calorie intake by	Expenditure shares.	
		age and gender of	1980: 0.18.	
		the household	Percentage change: $1980-2007: -8.9$.	
		members.	Percentage change: 2007-13: 4.9%	
			Meat (at home):	
			Calories,	
			1980: 413,	
			Percentage change: 1980-2007: –28.9,	
			Percentage change: 2007-13: –9.0	
			Expenditure shares,	
			1980: 0.28,	
			Percentage change: 1980-2007: –17.3,	
			Percentage change: 2007-13: –0.5	
			Fats and oils (at home):	
			Calories,	
			1980: 397 <i>,</i>	

			Developments and a second seco	
			Percentage change: 1980-2007: -51.1,	
			Percentage change: 2007-13: –0.7	
			Expenditure shares,	
			1980: 0.04,	
			Percentage change: 1980-2007: -47.4,	
			Percentage change: 2007-13: 10.5.	
			Fruit & Vegetables (at home):	
			Calories,	
			1980: 301,	
			Percentage change: 1980-2007: 5.7,	
			Percentage change: 2007-13: -2.9	
			Expenditure shares.	
			1980: 0.18	
			Percentage change: 1980-2007: 44 9	
			Percentage change: $2007.13 = 3.3$	
			Dainy (at home):	
			Calorios	
			1980: 285, Demonstrand charges: 1080-2007: 22-7	
			Percentage change: 1980-2007: -32.7,	
			Percentage change: 2007-13: -5.9	
			Expenditure shares,	
			1980: 0.13,	
			Percentage change: 1980-2007: -22.1,	
			Percentage change: 2007-13: -7.5	
			Sugary products and preserves (at	
			home):	
			Calories,	
			1980: 278,	
			Percentage change: 1980-2007: -73.7,	
			Percentage change: 2007-13: −1.8	
			Expenditure shares,	
			1980: 0.03,	
			Percentage change: 1980-2007: -62.1	
			Percentage change: 2007-13: 6 7	
			Cheese (at home):	
			Calories	
			Calories,	

			1980: 68,	
			Percentage change: 1980-2007: 0.0,	
			Percentage change: 2007-13: -0.3	
			Expenditure shares,	
			1980: 0.03,	
			Percentage change: 1980-2007: 13.8,	
			Percentage change: 2007-13: 4.4	
			Eggs (at home):	
			Calories,	
			1980: 40,	
			Percentage change: 1980-2007: -50.6,	
			Percentage change: 2007-13: -4.3	
			Expenditure shares,	
			1980: 0.02,	
			Percentage change: 1980-2007: -46.1,	
			Percentage change: 2007-13: 14.5	
			Other (at home, including ready	
			meals):	
			Calories,	
			1980: 27,	
			Percentage change: 1980-2007:114.2,	
			Percentage change: 2007-13: 7.2	
			Expenditure shares,	
			1980: 0.03,	
			Percentage change: 1980-2007: 92.2,	
			Percentage change: 2007-13: 2.5	
			Fish (at home):	
			Calories,	
			1980: 23,	
			Percentage change: 1980-2007: 43.0,	
			Percentage change: 2007-13: -3.5	
			Expenditure shares,	
			1980: 0.03,	
			Percentage change: 1980-2007: 37.9,	
			Percentage change: 2007-13: -2.6	

Griffith et	National: UK	Kantar	Longitudinal.	Exposure:	Change in share	Single non-pensioners:	Selection total:
al, 2013	Local: n/a	Worldpanel	Regressed variables	Commence-	of calories from	2008-09: - 1.05, 2010-12: - 1.08,	3
,	,	data.	on three time-period	ment of GR	fruit and	Single pensioners:	Comparability
		N=15,850.	dummies and	(time)	vegetables (g per	2008-09: - 1.16, 2010-12: - 1.11	total: 2
		,	controlled for month	Time point 1:	100g).	Couple non-pensioners:	Outcomes
			and household fixed	2005-2007	Participants	2008-09: - 0.93, 2010-12: - 0.90	total: 2
			effects, estimating	Time point 2:	record spending	Couple pensioners:	Total score: 7
			regression separately	2008-2009	on all grocery	2008-09: - 0.82. 2010-12: - 1.10	
			by household.	Time point 3:	purchases via an	Multi-adult households:	
			-,		electronic hand-	2008-09: -0.51. 2010-12: -0.64	
					held scanner in	Single parents:	
					the home	2008-09: - 0.82. 2010-12: - 1.22	
					(purchases	2+ adults, young children:	
					brought into the	2008-09: - 0.85, 2010-12: - 1.20	
					home).	2+ adults, older children:	
						2008-09: - 0.43, 2010-12: - 0.71	
						All households:	
						2008-09: - 0.80, 2010-12: - 0.94	
						All the changes are statistically	
						different from zero at the 99% level.	
Hasan,	National:	Bangladesh	Serial cross-sectional	Exposure:	Consumed rice	Consumed rice:	Selection total:
2019	Bangladesh	Household	design.	Commence-	(kg) and calorie	2010 coefficient: 1.14 (0.23) p<0.01	3
	Local: n/a	Income and	The study used	ment of GR	intake from grain,	Calorie intake from grain	Comparability
		Expenditure	difference-in-	(time)	non-rice grain,	2010 coefficient: – 45.92 (27.92)	total: 2
		Survey.	difference	Time point 1:	pulses (general),	Calorie intake from non-rice grain:	Outcomes
		Repeated cross-	framework and OLS	2005	high value pulses	2010 coefficient: 82.90 (11.20) p<0.01	total: 2
		sectional study	models including	(n=4,978),	(Lentil, Chickling	Calorie intake from pulses (general),	Total score: 7
		using two-stage	district fixed effects	time point 2:	vetch and Green	2010 coefficient: 2.61 (2.92)	
		stratified	and employing	2010	Gram), low value	Calorie intake from high value pulses:	
		random	clustered standard	(n=6,744).	pulses (Pea Gram,	2010 coefficient: 1.05 (2.25)	
		sampling.	errors (weighted).		Mashkalai and	Calorie intake from low value pulses:	
		Analysis was			other types of	2010 coefficient: 1.56 (1.75)	
		done for those			pulse), fruits, high	Calorie intake from fruits:	
		who buy rice			value fish, low	2010 coefficient: 17.35 (7.09) p<0.05	
		(compared to			value fish and	Calorie intake from proteins:	
		autarkic			other items (all in	2010 coefficient: 8.31 (5.38)	

		households and			kcal per capita	Calorie intake from high value fish:	
		rice sellers, but			per day).	2010 coefficient: -3.10 (1.50) p<0.05	
		there was no				Calorie intake from low value fish:	
		significant				2010 coefficient: 9.75 (1.80) p<0.01	
		difference				Calorie intake from other items:	
		between these				2010 coefficient: 28.50 (8.32) p<0.01	
		types).					
		n=11,722					
Jofre-	National: UK	Health Survey	Serial cross-sectional.	Exposure:	Portions of	Fruits:	Selection total:
Bonet et	Local:	for England.	Non-linear	annual	fruits/vegetables	Association of UR and vegetable	3
al., 2016	England	Adults over 16,	estimation methods	unemploy-	eaten the day	consumption: 0.0073 (0.014)	Comparability
		44.78% male.	(Tobit and probit),	ment rate	before being	Interaction between UR and d08:	total: 2
		N=91,045	reporting Average	(UR) by	surveyed.	–0.1962 (0.068) (p <0.01), suggesting	Outcomes
			Marginal Effects.	Government		that fruit consumption decreased by	total: 2
			Impact of recession	Office Region.		0.196 portions on average.	Total score: 7
			examined using the	Plus, dummy		Vegetables:	
			AME of the total	variable for		Association of UR and vegetable	
			effect of 2008	2008 onwards		consumption: -0.0090 (0.010).	
			dummy variable,	(d08).		Interaction between UR and d08:	
			which involves the	Time: 2001-		0.0916 (0.051) (p < 0.1), suggesting that	
			effect of the d08	2013		vegetable consumption increased by	
			coefficient plus its	(excluding		0.092 portions.	
			effect through the	2012).		Suggests that the recession had an	
			interaction with UR.			impact on fruit and vegetable	
						consumption that did not originate in	
						change in UR.	
Kim &	National:	The Geographic	Cross-sectional	Exposure:	Binary variable	Fruits:	Selection total:
Cubbin,	USA	Research on	outcome with	changes in	relating to	1) Bivariate analysis for fruit very often	3
2019	Local:	Wellbeing	longitudinal	three	mother-reported	in the home	Comparability
	California	(GROW) study is	exposure.	neighbour-	availability of fruit	Total - poor families: 81.0%, non-poor	total: 2
		a follow-up	1) Bivariate analyses	hood-level	or vegetables	families: 93.8%	Outcomes
		survey of	to examine food	indicators	(excluding	Difference in median household	total: 2
		postpartum	environment by	before/after	potatoes) in the	income	Total score: 7
		women 2012-	individual-level and	the Great	home (very often	<\$0 - poor families: 69.4%, non-poor	
		2013.	neighbourhood level	Recession: (1)	= 1; otherwise =	families: 98.5%	
				median	0)		

N=1359	characteristics	household	\$0-\$100.000 - poor families: 80.4%.
households.	separately.	income. (2)	non-poor families: 95.4%
	2) Logistic regression	proportions of	\$100.000-\$149.999 - poor families:
	for odds ratios for	vacant	86.4%, non-poor families: 93.9%
	dependent variables	housing units.	\$150.000+; poor families; 85.2%, non-
	for poor families: a	and (3)	poor families: 90.4%
	"sociodemographic"	median	Difference in % of vacant housing units
	model (Model 1):	housing value	<0.00%; poor families; 77.2%, non-
	"neighbourhood	(economic	poor families: 92.8%
	economic change"	changes	0.00% - 2.99%; poor families: 81.8%.
	models (Models 2-4).	between 2000	non-poor families: 94.1%
	which added	and 2009-	3.00-4.99%; poor families; 86.7%, non-
	variables of	2013).	poor families: 92.5%
	neighbourhood	Time: 2000-	- >5.00%: poor families: 79.8%, non-
	economic change	2013	poor families: 95.9%
	one at a time to the		Difference in median housing values:
	sociodemographic		<\$100,000: poor families: 77.0%, non-
	model; and a fully		poor families: 90.2%
	adjusted model		\$100,000 - \$149,000: poor families:
	(Model 5), which		83.9%, non-poor families: 95.1%
	added all three		\$150,000 - \$249,999: poor families:
	variables of		79.0%, non-poor families: 92.6%
	neighbourhood		\$250,000+: poor families: 87.9%, non-
	economic change to		poor families: 95.2%
	the socio-		2) Logistic regression
	demographic model.		Difference in median household
			<u>income</u>
			<\$0 - ref, all 1.00
			\$0-\$100,000: Model 2: 2.04 [1.07,
			3.90] (p<0.05), Model 5: 1.92 [0.99,
			3.73]
			\$100,000-\$149,999: Model 2: 3.32
			[1.52, 7.27] (p < 0.01), Model 5: 3.13
			[1.42, 6.94] (p < 0.01)

			\$150,000+: Model 2: 2.88 [1.30, 6.39]	
			(p < 0.01), Model 5: 2.70 [1.19, 6.12] (p	
			< 0.05)	
			Difference in % of vacant housing units	
			<0.00%: Model 3: 0.96 [0.47, 1.93],	
			Model 5: 0.99 [0.48, 2.03]	
			0.00% - 2.99%: Model 3: 1.22 [0.62,	
			2.39], Model 5: 1.13 [0.55, 2.31]	
			3.00-4.99%: Model 3: 1.69 [0.73, 3.93],	
			Model 5: 1.73 [0.74, 4.06]	
			>5.00%: ref, all 1.00	
			Difference in median housing values	
			<\$100,000: ref, all 1.00	
			\$100,000 - \$149,000: Model 4: 1.57	
			[0.83, 2.99], Model 5: 1.33 [0.69, 2.56]	
			\$150,000 - \$249,999: Model 4: 1.17	
			[0.63, 2.18], Model 5: 1.00 [0.53, 1.91]	
			\$250,000+: Model 4: 1.97 [0.81, 4.79],	
			Model 5: 1.54 [0.61, 3.88]	
			Vegetables	
			Total - poor families: 78.5%, non-poor	
			families: 91.1%	
			Difference in median household	
			income	
			<\$0: poor families: 65.5%, non-poor	
			families: 93.6%	
			\$0-\$100,000: poor families: 78.4%,	
			non-poor families: 89.7%	
			\$100,000-\$149,999 - poor families:	
			83.7%, non-poor families: 91.6%	
			\$150,000+: poor families: 83.3%, non-	
			poor families: 90.7%	
			Difference in % of vacant housing units	
			<0.00%: poor families: 76.2%, non-	
			poor families: 91.3%	

			0.00% - 2.99%: poor families: 79.9%,	
			non-poor families: 93.3%	
			3.00-4.99%: poor families: 83.7%, non-	
			poor families: 88.2%	
			>5.00%: poor families: 74.6%, non-	
			poor families: 88.5%	
			Difference in median housing values	
			<\$100,000: poor families: 78.1%, non-	
			poor families: 91.3%	
			\$100,000 - \$149,000: poor families:	
			79.8%, non-poor families: 89.7%	
			\$150,000 - \$249,999: poor families:	
			76.1%, non-poor families: 90.3%	
			\$250,000+: poor families: 83.5%, non-	
			poor families: 92.3%	
			2) Logistic regression	
			Difference in median household	
			income	
			<\$0 - ref, all 1.00	
			\$0-\$100,000: Model 2: 2.15 [1.17,	
			3.94] (p<0.05), Model 5: 2.14 [0.38,	
			1.90] (p<0.05)	
			\$100,000-\$149,999: Model 2: 3.23	
			[1.55, 6.71] (p < 0.01), Model 5: 3.31	
			[1.57, 6.97] (p < 0.01)	
			\$150,000+: Model 2: 3.10 [1.43, 6.70]	
			(p < 0.01), Model 5: 3.26 [1.50, 7.09] (p	
			< 0.01)	
			Difference in % of vacant housing units	
			<0.00%: Model 3: 1.17 [0.61, 2.25],	
			Model 5: 1.23 [0.63, 2.39]	
			0.00% - 2.99%: Model 3: 1.45 [0.78,	
			2.70], Model 5: 1.39 [0.73, 2.62]	
			3.00-4.99%: Model 3: 1.86 [0.85, 4.04],	
			Model 5:1.87 [0.86, 4.06]	
			> 5.00%: ref, all 1.00	

Kotel- nikova & Radaev, 2017		Russian Longitudinal Monitoring Survey (RLMS– HSE). The RLMS–HSE is a nationally representative annual panel survey of households. Multistage probability sampling. Aged 14+. N= between 3,317 and	Longitudinal. Median changes in per capita food expenditures (percentage change to previous year).	Exposure: Commence- ment of GR (time) Time point 1: 1995 (n=3,317) Time point 2: 1998 (n=3,248) Time point 3: 2009 (n=4,900) Time point 4: 2014 (n=6180)	Food expenditure in the previous week on: bread, cereals, and canned food; fresh vegetables; fresh meat and fish; milk and dairy products; and berries and other fresh fruit.	Difference in median housing values <\$100,000 : ref, all 1.00 \$100,000 - \$149,000: Model 4: 1.12 [0.60, 2.10], Model 5: 0.92 [0.49, 1.70] \$150,000 - \$249,999: Model 4: 0.94 [0.51, 1.74], Model 5: 0.76 [0.41, 1.40] \$250,000+: Model 4: 1.32 [0.55, 3.20], Model 5: 0.98 [0.39, 2.43] Bread, cereals and canned food: 1995: 4.8 1998: -41.4, 2009: -5.2, 2014: -8.6 (not significant in 2009 and 2014). Fresh vegetables: 1995: -69.3, 1998: -41.3, 2009: -43.6, 2014: -46.4 Fresh meat and fish: 1995: -29.9, 1998: -100.0, 2009: -4.8, 2014: -7.7 Milk and dairy products: 1995: -23.7, 1998: -52.7, 2009: -7.1, 2014: -5.2 Berries and other fresh fruits: 1995: -74.3, 1998: -100.0, 2009: -37.1, 2014: -23.7	Selection total: 3 Comparability total: 1 Outcomes total: 1 Total score: 5
Martin-	National:	6,180. Households	Serial cross-sectional.	Exposure:	Daily food	Changes in proportion of people	Selection total:
Prevel et	Burkina Faso	randomly	Changes in food-	Commence-	expenditure.	consuming food groups in the	3
al, 2012	Local:	selected from	related indicators	ment of GR	Obtain a food	preceding 24 hours 2007 to 2008:	Comparability
	Ouaga-		between 2007 and	(time)	itom por dou	Cereals: U% Increase	total: 2
	uougou	age of	2008 were analysed	1111000000000000000000000000000000000	calculating by	Vitamin A rich fruits (vegetables	total: 2
		household	for proportions	(n=3017)	summing mean	consumption: 31% decrease	Total score: 7
		head: 42		Time Point 2	nrice ner kilogram	Green leafy vegetables: 2% increase	
		household head		July 2008	and prices	Other vegetables: 2% decrease	
		86.8% (2007)		(n=3002)	multiplied by	VA-rich fruits: 69% decrease	

		and 87.8% (2008) male.			daily consumption of that food item. Weighted prices were also summed by type of food to obtain the basket price of cereals, meat/fish, and fruit/vegetables	Other fruits: 31% decrease Liver/offal: 25% decrease Other offals: 40% decrease Meat and poultry: 18% decrease Eggs: 42% increase Fish: 4% decrease Nuts/seeds: 15% decrease Beans: 8% increase Milk/dairy product: 21% decrease Oils/fats: 6% decrease Vitamin A rich oil (red palm oil): 221%	
					per day.	increase Condiments: 1% increase	
Mattei et al, 2017	National: Italy Local: n/a	Italian Institute of Statistics database, aged over 3. Age: 11 and above.	Serial Cross- sectional. Linear Regression Models including a dummy variable for before/after 2008. 95% confidence intervals (CIs) were estimated for all coefficients on the basis of heteroscedasticity- robust standard errors.	Exposure: Commence- ment of GR (time) Time point 1: 2000-2007 Time point 2: 2008-2015	Percentage of people who eat meat sometimes in the week, eat fish sometimes in the week, eat cheese at least once a day, eat vegetables at least once a day.	Eating meat sometimes in the week: β : -1.19, p: 0.60, 95% CI: -6.12, 3.73, R2: 0.42; Time-trend association: not significant Eating fish sometimes in the week: β : -1.64, p: 0.22, 95% CI: -4.44, 1.16, R2: 0.29; Time-trend association: not significant Eating cheese at least once a day: β : 0.67, p: 0.47, 95% CI: -1.29, 2.64, R2: 0.94; Time-trend association: non- significant negative time trend. Eating vegetables at least once a day: β : -1.05, p: 0.35, 95% CI: -3.41, 1.30, R2: 0.81; Time-trend association: non- significant positive trend.	Selection total: 1 Comparability total: 0 Outcomes total: 2 Total score: 3
Ng et al., 2014	National: USA Local: n/a	Neilson Homescan data. Weighted to be nationally representative. N= 57.298	Cross-sectional and longitudinal data. Maximum likelihood random effect models with clustering by	Exposure: unemploy- ment rate (monthly market and quarter-	Calories from Consumer Packaged Goods (CPG) and beverages.	Households with children: Coefficient for one-percentage point increase in unemployment Foods & beverages: 4.05 ± 0.85 p<0.001 Foods: 3.83 ± 0.75 p<0.001	Selection total: 4 Comparability total: 2 Outcomes total: 2
		households	household.	specific rates		Beverages: -0.02 ± 0.18	Total score: 8

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Rajmil et	National:	Catalan Health	Serial cross-sectional.	July 2009 – Feb 2011 Time point 4: Austerity March 2011 – December 2013 Exposure:	Junk food	Boys: ref, girls: 0.53 (-0.12 to 1.18)	Selection total:
al, 2013	Spain Local: Catalonia	Survey. Multistage probability sample. Aged 3-15. 48.5% male in 2006 and 49.3% male in 2010- 2012. Total n=3982.	Multiple linear regression, adjusted for other factors in table (sex, maternal education, survey, employment).	Commence- ment of GR (time) Time point 1: 2006 (n=2220) Time point 2: 2010-2012 (n=1967)	consumption assessed using 4 items from the Child Health and Illness profile. Higher scores reflect less junk food consumption	Age: -0.3 (-0.4 to -0.21) (statistically significant) Maternal education Primary maternal education: -4.64 (-6.07 to -0.21) (statistically significant) Secondary maternal education: -2.25 (-3.37 to -1.13) (statistically significant) Survey 2006: ref, 2010: -12: 0.89 (-0.27 to 2.06) Employed: ref, Unemployed: 0.4 (-1.45 to 2.27) Interaction terms: Primary education by survey: 2.85 (0.83 to 4.88) (statistically significant) Secondary education by survey: 1.22 (-0.22 to 2.67)	3 Comparability total: 2 Outcomes total: 2 Total score: 7
Regidor et	National:	The data on fruit and	Serial cross-sectional.	Macro-	Intake of fruit and	Average annual intake:	Selection total:
ai., 2013	Local: n/a	vegetable	regression models	fluctuations	(annual kg	2007. 174.2, 2003. 173.8, 2000. 171.8, 2007. 175.9, 2008. 175.6, 2009. 178.2	∠ Comparability
	2000111/0	consumption	where the outcomes	characterised	purchased per	2010: 186.1. 2011: 186.8. 2012: 189.2	total: 0
		are from the	were the natural	by the annual	household). This	2013: 191.3, 2014:187.8, 2015: 180.8,	Outcomes
		survey 'Panel of	logarithms of GDP,	gross	survey consists of	2016: 182.2.	total: 1
		Food	health behaviours	domestic	daily collection,	The Annual Percentage Change for	Total score: 3
		Consumption'	indicators and	product (GDP)	using an optical	fruits and vegetables consumption in	
		carried out by	mortality rates.	from the	reader, of	the different time intervals:	

		the Ministry of		World Bank.	products that are	2004 - 2007 (before crisis):	
		Food in a		The economic	purchased or	-0.1 (n value 0.831)	
		representative		decline in	enter the home.	2008 - 2010 (during crisis):	
		sample of		Spain was	The results are	2.1 (p-value < 0.001)	
		homes.		greater in the	published and	2011 - 2013 (during crisis):	
		Sample size not		second part of	broken down by	1 2 (p-value 0 026)	
		stated.		the economic	food groups per	2014 - 2016 (after crisis):	
				crisis.	household.	-1.9 (p-value 0.003)	
				Commence-			
				ment of GR			
				(time) (annual			
				percentage			
				change in GDP			
				in brackets)			
				Time point 1:			
				2004-2007			
				(4.1)			
				Time point 2:			
				2008–2010 (-			
				0.9)			
				Time point 3:			
				2011–2013 (-			
				2.1)			
				Time point 4:			
				2014–2016			
				(2.7).			
Shabnam	National:	Household	Serial cross-sectional.	Exposure:	The data on	Budget share:	Selection total:
et al., 2016	Pakistan	Integrated	Food budget shares	Commence-	household food	Milk & milk products budget share	3
	Local: n/a	Economic	of households across	ment of GR	consumption	(litres) (% of expenditure):	Comparability
		Survey (HIES), a	the years and	(time)	covered a period	2005 – 2006:	total: 2
		nationally	quartiles of the	Time point 1:	of 14 days and	All: 16.49, Q1: 13.31, Q3: 18.64	Outcomes
		representative	expenditure	2005-6	30-days call	2010-2011:	total: 2
		survey of rural	distribution.	(n=14,863)	period. Food	All: 20.75, Q1: 17.09, Q3: 24.59	Total score: 7
		and urban areas	Quantile regression	Time point 2:	items are	Meat, poultry and fish budget share	
		(14 big cities	on demand equation	2010-11	aggregated into	(kg) (% of expenditure):	
		and 81 districts	including per capita	n= 15,191	budget share for	2005 - 2006	

	in each of the	monthly expenditure.	11 food groups:	All: 8.56, Q1: 6.19, Q3: 11.35	
	country's four	price and household	milk & milk	2010-2011:	
	provinces).	demographic	products (litres).	All: 10.04. 01: 6.75. 03: 13.74	
	Mean age: 45.	characteristics.	meat, poultry and	Fresh fruits budget share (kg) (% of	
	Female-headed	and employment	fish (kg).	expenditure):	
	households	status) gender	fresh fruits (kg)	2005 - 2006	
	7 5% in 2005	composition regional	vegetables (kg)	All: 2 61 01: 1 56 03: 3 93	
	and 8.4% in	and provincial	snices &	2010-2011:	
	2010	dummies	condiments (kg)		
	N= 14 863 and	and district fixed	wheat & wheat	Vegetable budget share (kg) (% of	
	15 101	offects	flour (kg)	evnenditure).	
	13,131	cheets.		2005 - 2006	
			nulses (whole and		
			cnlit) (kg)	2010-2011.	
			edible oils and		
			fate (litroe)	All: 5.04 , QI: 10.42 , QS: 0.21	
			other feeds (kg)	(% of expenditure)	
			Drice electicity of		
			changes in calorio		
			intake by food	All. 2.72, QI. 2.92, QS. 2.40	
			Intake by 1000		
			group.	All: 3.03, Q1: 3.09, Q3: 3.44	
				(%) of sum and thouse	
				All: 14.65, Q1: 20.1, Q3: 8.63	
				All: 17.54, Q1: 23.31, Q3: 11.52	
				Rice budget share (kg) (% of	
				expenditure)	
				2005 - 2006	
				All: 2.92, Q1: 3.41, Q3: 2.37	
				2010-2011:	
				All: 3.79, Q1: 3.99, Q3: 3.34	
				Pulses (whole and split) budget share	
				(kg) (% of expenditure)	
				2005 - 2006	

			All: 2.09, Q1: 2.32, Q3: 1.73	
			2010-2011:	
			All: 2.91, Q1: 3.04, Q3: 2.57	
			Edible oils and fats budget share	
			(litres) (% of expenditure)	
			2005 - 2006	
			All: 7.44, Q1: 8.16, Q3: 6.37	
			2010-2011:	
			All: 10.96, Q1: 11.99, Q3: 9.5	
			Other foods budget share (kg) (% of	
			expenditure)	
			2005 - 2006	
			All: 4.69. Q1: 4.28. Q3: 5.59	
			2010-2011:	
			All: 7.77. O1: 6.2. O3: 10.44	
			Ouantile regression of changes in	
			calorie intake to variation in prices	
			log price milk & milk products:	
			Estimate: -0.146 (SE 0.005) (p < 0.10)	
			$\theta = 0.10$ -0.197 (SE 0.022) (p < 0.01)	
			$\theta = 0.50; -0.203 (0.021) (p < 0.01);$	
			$\theta = 0.90$ - 0.165 (SE 0.030) (p < 0.01)	
			n = 0.052	
			log price meat, poultry and fish:	
			Estimate: 0.004 (SE 0.004) ($p < 0.10$)	
			A = 0.10 - 0.021 (SE 0.017)	
			A = 0.50; -0.008 (SE 0.010);	
			A = 0.90: -0.061 (SE 0.023) (n < 0.01)	
			n = 0.820	
			log price fresh fruits:	
			Estimate: $0.012 (0.002) (n < 0.01)$	
			A = 0.10 -0.115 (SE 0.016) (n < 0.01)	
			A = 0.50; -0.082 (SE 0.007) (p < 0.01);	
			A = 0.90: -0.116 (SE 0.017) (p < 0.01)	
			p = 0.020	
			p = 0.020 Log price vegetables:	
			Log price vegetables.	

			Estimate: –0.172 (0.011) (p < 0.10)	
			θ = 0.10: -0.008 (SE 0.050);	
			θ = 0.50: -0.083 (SE 0.031) (p < 0.01);	
			θ = 0.90: -0.007 (SE 0.070),	
			p = 0.313	
			Log price spices & condiments:	
			Estimate: –0.006 (0.001) (p < 0.10)	
			θ = 0.10: 0.041 (SE 0.011) (p < 0.01);	
			θ = 0.50: 0.005 (SE 0.008);	
			θ = 0.90: –0.032 (SE 0.012) (p < 0.01),	
			p = 0.000	
			Log price wheat & wheat flour:	
			Estimate: 0.447 (0.006) (p < 0.01)	
			θ = 0.10: 0.147 (SE 0.027) (p < 0.01);	
			θ = 0.50: 0.206 (SE 0.023) (p < 0.01);	
			θ = 0.90: 0.150 (SE 0.043) (p < 0.01),	
			p = 0.087	
			Log price rice:	
			Estimate: –0.315 (0.005) (p < 0.01)	
			θ = 0.10: -0.224 (SE 0.027) (p < 0.01);	
			θ = 0.50: –0.205 (SE 0.014) (p < 0.01);	
			θ = 0.90: -0.159 (SE 0.030) (p < 0.01),	
			p =0.230	
			Log price pulses (whole and split):	
			Estimate: –0.076 (0.013) (p < 0.01)	
			θ = 0.10: -0.166 (SE 0.037) (p < 0.01);	
			θ = 0.50: –0.251 (SE 0.028) (p < 0.01);	
			θ = 0.90: –0.293 (SE 0.075) (p < 0.01),	
			p = 0.059	
			Log price edible oils and fats:	
			Estimate: 0.279 (0.018) (p < 0.05)	
			θ = 0.10: -0.014 (SE 0.043);	
			θ = 0.50: –0.022 (SE 0.034);	
			θ = 0.90: -0.147 (SE 0.088) (p < 0.10),	
			p = 0.249	
			Log price other foods:	

			Estimate: -0.022 (0.000) (p < 0.01)	
			$\theta = 0.10; 0.011 (SE 0.004) (p < 0.01);$	
			$\theta = 0.50; 0.018 (SE 0.004) (p < 0.01);$	
			$\theta = 0.90^{\circ} 0.028 (SE 0.008) (p < 0.01)$	
			n = 0.093	
			Log price milk & milk products*V2010	
			$A = 0.10 \cdot 0.085$ (SE 0.036) (n < 0.01)	
			A = 0.50; 0.003 (32, 0.036) (p < 0.01);	
			P = 0.90: 0.115 (SE 0.020) (p < 0.01),	
			0 = 0.30. $0.130 (30 0.044) (p < 0.01),$	
			p = 0.400	
			Log price meat, poultry and 151° (2010)	
			$\theta = 0.10; 0.131 (SE 0.019) (p < 0.01);$	
			$\theta = 0.50; 0.094 (SE 0.013) (p < 0.01);$	
			$\theta = 0.90$: 0.152 (SE 0.028) (p < 0.01),	
			p = 0.025	
			Log price fresh fruits*Y2010	
			$\theta = 0.10$: 0.101 (SE 0.018) (p < 0.01);	
			θ = 0.50: 0.069 (SE 0.010) (p < 0.01);	
			θ = 0.90: 0.103 (SE 0.015) (p < 0.01),	
			p = 0.015	
			Log price vegetables*Y2010	
			θ = 0.10: -0.224 (SE 0.049) (p < 0.01);	
			θ = 0.50: -0.130 (SE 0.040) (p < 0.01);	
			θ = 0.90: –0.084 (SE 0.079) (p < 0.01),	
			p = 0.299	
			Log price spices & condiments*Y2010	
			θ = 0.10: -0.029 (SE 0.012) (p < 0.01);	
			θ = 0.50: -0.007 (SE 0.009);	
			θ = 0.90: 0.022 (SE 0.015),	
			p = 0.014	
			Log price wheat & wheat flour*Y2010	
			θ = 0.10: 0.120 (SE 0.040) (p < 0.10);	
			θ = 0.50: 0.061 (SE 0.031) (p < 0.05);	
			θ = 0.90: 0.000 (SE 0.056) (p < 0.01),	
			p = 0.029	
			Log price rice * Y2010:	

			$A = 0.10 \cdot -0.054$ (SE 0.028) (p < 0.05).	
			0 = 0.10. -0.054 (SE 0.028) (p < 0.03);	
			$\theta = 0.50$; -0.057 (SE 0.021) (p < 0.01);	
			$\theta = 0.90$: -0.037 (SE 0.036),	
			p = 0.852	
			Log price pulses*Y2010	
			θ = 0.10: 0.199 (SE 0.054) (p < 0.01);	
			θ = 0.50: 0.071 (SE 0.032) (p < 0.01);	
			θ = 0.90: 0.056 (SE 0.091), p=0.027	
			Log price edible oils and fats*Y2010:	
			θ = 0.10: 0.296 (SE 0.059) (p < 0.01);	
			θ = 0.50: 0.314 (SE 0.059) (p < 0.01);	
			θ = 0.90: 0.433 (SE 0.127) (p < 0.01),	
			p = 0.482	
			Log price other foods * Y2010:	
			$\theta = 0.10$: -0.037 (SE 0.004) (p < 0.01);	
			$\theta = 0.50; -0.051$ (SE 0.005) (p < 0.01):	
			$\theta = 0.90$: - 0.048 (SE 0.012) (p < 0.01).	
			p = 0.081	
			The positive prices of wheat and sugar	
			indicate that these commodities are	
			the main source of calories	
			A vast majorities of elasticities	
			decreased in 2010 after the food crisis	
			with the exception of milk and fruit	
			which have become loss consitive to	
			which have become less sensitive to	
			price changes and wheat whose	
			positive price elasticity has not	
			changed.	
			Quintile regression reveals that	
			changes in what elasticity are more	
			relevant for low income prices.	
			Heterogeneous elasticities are also	
			found for milk and oil, with meat, rice,	
			fruit and vegetables and sugar	
			particularly sensitive in lower income	
			groups.	

Smed et	National:	GfK Panel	Longitudinal.	Exposure:	Constructed	Canned and processed fish	Selection total:
al., 2017	Denmark	Services	Fixed methods	Consumer	consumption per	CCI (B1): coefficient: 1.40. P value:	4
- , -	Local: n/a	Scandinavia of	econometric	Confidence	individual in	0.0000	Comparability
		households of	methods to control	Interval as a	households by	Fresh fish	total: 2
		working age.	for unobserved	proxy for	dividing each	CCI (β1): coefficient: 2·11, P value:	Outcomes
		N=3440	heterogeneity.	economic	household's	0.0000	total: 2
			Unemployment,	downturn.	consumption data	Frozen Vegetables	Total score: 8
			single, location and	Time: January	with weights	CCI (β 1): coefficient: 0.37, P value:	
			number of children	2008 to	constructed from	0.5640	
			included in model	December	gender- and age-	Fresh vegetables	
			and controlled for	2012.	dependent daily	CCI (β 1): coefficient: -61.96, P value:	
			energy consumption.		energy intake.	0.1880	
			If increasing CCI is		Monthly	Fresh Fruit	
			associated with		purchases at	CCI (β1): coefficient: 5·93, P value:	
			increasing		brand level	0.0700	
			consumption, an		amalgamated	Poultry	
			economic downturn		into food	CCI (β1): coefficient: 6·57, P value:	
			is associated with		categories:	0.0000	
			decreasing		Canned and	Beef	
			consumption and		processed fish,	CCI (β1): coefficient: 1·38, P value:	
			vice versa.		fresh fish,	0.1090	
					frozen	Pork	
					vegetables, fresh	CCI (β1): coefficient: −2·13, P value:	
					vegetables,	0.0340	
					fresh fruit,	Soft drinks	
					poultry, beef,	CCI (β1): coefficient: 2·08, P value:	
					pork, soft drinks	0.2300	
					(syrup, ice-tea,	Carbonated soft drinks	
					soft drinks, juice),	CCI (β1): coefficient: 3·61, P value:	
					carbonated soft	0.3960	
					drinks, processed	Processed meat	
					meat (sausages	CCI (β1): coefficient: 1·18, P value:	
					and bacon), sliced	0.0050	
					meat (liver-pate,	Sliced meat	
					cold cuts, cold	CCI (β 1): coefficient: 0.59, P value:	
					cuts salad),	0.0220	

		fats (margarine	Fats	
		hutter and hutter	CCL (B1): coefficient: 1.09 P value:	
		blends) oils	0.0050	
		spacks (chins	Oile	
		silduks (cilips,	CI (81): coofficient: 0.01. Dyalue:	
		sally and rice-	cci (p1): coefficient: 0.01, P value:	
		based snacks,	0.9500	
		dairy snacks,	Snacks	
		sweets, pastilles	CCI (β 1): coefficient: -3.09 , P value:	
		and chewing-gum	0.0000	
		chocolate,	Cheese	
		marzipan and	CCI (β 1): coefficient: 1·30, P value:	
		nougat), cheese	0.0160	
		(dessert cheese,	Dairy	
		block cheese),	CCI (β1): coefficient: 7.08, P value:	
		dairy (milk,	0.0490	
		yoghurt and	Eggs	
		similar products,	CCI (β1): coefficient: 0·84, P value:	
		cream), eggs,	0.1010	
		bread, flour,	Bread, flour, carbohydrates	
		carbohydrates	CCI (β1): coefficient: –0·58, P value:	
		, (Brown bread,	0.6930	
		white bread, crisp	Processed food	
		bread, flour.	CCI (B1): coefficient: 0.14. P value:	
		pasta and rice.	0.7550	
		cereals).	Sugar products	
		processed food	CCI (B1): coefficient: 2.47 P value:	
		(Tinned dinners	0.0020	
		Asian and	0 0020	
		Mexican food		
		nizza nasta- and		
		rice-meals soun		
		descerts) and		
		sugar products		
		Sugar honov and		
		(Sugar, noney and		
		syrup, ice cream,		
		biscuits and		

					cookies.		
					marmalade.		
					cakes, laving on		
					chocolate and		
					Nutella)		
Todd,	National:	National Health	Serial cross-sectional.	Exposure:	Calories from fast	Calories from fast food:	Selection total:
2014	USA	and Nutrition	multivariate linear	Commence-	foods (total and	Unconditional and conditional	3
	Local: n/a	Examination	regression models	ment of GR	%) and total/away	differences in mean outcomes	Comparability
		Survey.	were used to	(time)	from home	between 2005-06 and 2009- 10	total: 2
		Adults born	estimate the	Time point 1:	snacks. From 1-	calories from fast food:	Outcomes
		between 1946-	conditional changes	2005-2006	day dietary recall.	Unconditional: - 83.95	total: 1
		1985 so	in outcome variables.	N=3,014		Conditional upon age: -58.46	Total score: 6
		between the	β estimated via	Time point 2:		(difference from unconditional is	
		ages of 20 – 64	weighted ordinary	2007-2008		statistically significant with p<0.01)	
		during the study	least squares with SE	N=3,294		Conditional upon age, other	
		period. 48-49%	accounting for the	Time point 3:		demographics: -53.27	
		male.	complex sample	2009-2010		Conditional upon age, other	
		N=9,839	design. Model	N=3,531		demographics, and income: -52.89	
			(conditioning)			Difference in variable mean between	
			includes age,			full model (conditional upon age, other	
			household size, and			demographics and income) and	
			indicators for gender,			unconditional is statistically significant	
			ethnicity, marital			with p<0.01	
			intake, data collected			Conditional changes by subgroups	
			during weekend, and			(calories from fast food):	
			for the older cohort,			Born 1946-85, some college or more:	
			education as			2005-06: 347.56, Change 2005-06 to	
			controls.			2009-10: -75.92 (change is statistically	
						significant at P<0.01)	
						Born 1946-85, no college education:	
						2005-06: 357.37, Change 2005-06 to	
						2009-10: - 17.53	
						Men, born 1946-85, no college:	
						2005-06: 420.12, Change 2005-06 to	
						2009-10: -22.30	
						Adults born before 1946:	

2005-06: 102.13, Change 2005-06 t	0
2009-10: 5.87 (estimate is different	
from that for the group with at least	it
some college education, with p<0.2	.0).
Percentage calories from fast food	:
Unconditional and conditional	
differences in mean outcomes	
between 2005-06 and 2009- 10:	
Unconditional: -2.92	
Conditional upon age: -1.98	
(difference from unconditional is	
statistically significant with p<0.01	
Conditional upon age, other	
demographics: -1.83	
Conditional upon age, other	
demographics, and income: -1.83	
Difference in variable mean betwee	en
full model (conditional upon age, o	ther
demographics and income) and	
unconditional is statistically signific	ant
with p<0.01	
Conditional changes by subgroups	%
calories from fast food):	
Born 1946-85, some college or more	e:
2005-06: 14.52. Change 2005-06 to	-
2009-10: -2.78 (change is statistica	lv
significant at P<0.01)	,
Born 1946-85, no college education	n:
2005-06: 14.31. Change 2005-06 to	
2009-10: -0.35 (estimate is differen	t
from that for the group with at least	+
some college education, with p<0.2	
Man born 1946-85 no college:	.0)
	.0)
2005-06: 14 07 Change 2005-06 to	.0)
2005-06: 14.07, Change 2005-06 to 2009-10: -0.36	.0)

			2005-06: 5.69, Change 2005-06 to	
			2009-10: 0.00 (estimate is different	
			from that for the group with at least	
			some college education, with p<0.10)	
			Total snacks:	
			Unconditional and conditional	
			differences in mean outcomes	
			between 2005-06 and 2009- 10:	
			Unconditional: -0.01	
			Conditional upon age: 0.04	
			(difference from unconditional is	
			statistically significant with p<0.01)	
			Conditional upon age, other	
			demographics: -0.02	
			Conditional upon age, other	
			demographics, and income: -0.02	
			Conditional changes by subgroups	
			<u>(total snacks):</u>	
			Born 1946-85, some college or more:	
			2005-06: 2.36, Change 2005-06 to	
			2009-10: 0.02	
			Born 1946-85, no college education:	
			2005-06: 2.09, Change 2005-06 to	
			2009-10: -0.08	
			Men, born 1946-85, no college:	
			2005-06: 2.18, Change 2005-06 to	
			2009-10: -0.12	
			Adults born before 1946:	
			2005-06: 2.05, Change 2005-06 to	
			2009-10: - 0.11	
			Snacks away from home:	
			Unconditional and conditional	
			differences in mean outcomes	
			between 2005-06 and 2009- 10:	
			Unconditional: -0.06	
			Conditional upon age: -0.06	

						Conditional upon age, other	
						Conditional upon age other	
						demographics and income: -0.06	
						(difference from conditional upon age	
						other demographics is statistically	
						significant with $n < 0.05$)	
						Conditional changes by subgroups	
						(FAFH snacks):	
						Born 1946-85, some college or more:	
						2005-06: 0.46, Change 2005-06 to	
						2009-10: - 0.07 (change is statistically	
						significant at P<0.05)	
						Born 1946-85, no college education:	
						2005-06: 0.34, Change 2005-06 to	
						2009-10: -0.03	
						Men, born 1946-85, no college:	
						2005-06: 0.41, Change 2005-06 to	
						2009-10: -0.12 (change is statistically	
						significant at P<0.05)	
						Adults born before 1946:	
						2005-06: 0.23, Change 2005-06 to	
						2009-10: -0.01	
Todd,	National:	National Health	Serial cross-sectional.	Exposure:	Dietary intake for	Percentage energy from fast foods:	Selection total:
2017	USA	and Nutrition	Used multivariate	Commence-	one 24 h period is	Conditional differences with their	4
	Local: n/a	Examination	linear regression	ment of GR	collected using	standard errors, and percentage	Comparability
		Survey. Includes	models and ordinary	(time)	the Automated	change in estimated difference from	total: 2
		working age	least squares.	Time point 1:	Multiple Pass	unconditional difference in % energy	Outcomes
		adults between	Adjusted for age,	2005-2006	Method:	from fast foods:	total: 2
		25-65	household income	Time point 2:	Percentage	2007-08: β –0·95, SE: 1·07	Total score: 8
		(n=12,129), and	relative to poverty,	2007-2008	energy from fast	2009-10: β - 1·83, SE: 0·99,	
		a secondary	household size, and	Time point 3:	foods and	percentage change: - 39	
		sample of 15-24	indicators for gender,	2009-2010	total/away from	2011-12: β 0·42, SE: 0·95	
		year olds (23-32	ethnicity, marital	Time point 4:	home snacks.	2013-14 β 1·85, SE: 0·92 (estimate is	
		year olds in	intake, data collected	2013-2014		statistically significant P<0.05)	
			during weekend, and				

		2013-2014)	for the older cohort,			Constant: β 23·51, SE: 0.03 (estimate is	
		(n=5197).	education as			statistically significant P<0.01)	
			controls.			Total Snacks:	
						2005-06: mean 2·28, SE: 0·04	
						2007-08: mean 2·23, SE: 0·03	
						2009-10: mean 2·24, SE: 0·05	
						2011-12: mean 2·23, SE: 0·08	
						2013-14: mean 2·24, SE: 0·08	
						FAFH snacks:	
						2005-06: mean 0·40, SE: 0·02	
						2007-08: mean 0·35, SE: 0·02	
						2009-10: mean 0·34, SE: 0·02 (Mean	
						value was significantly different from	
						that in 2005–06: P <0.05)	
						2011-12: mean 0·45, SE:0·03 (Mean	
						value was significantly different from	
						that in 2009–10: P <0·05)	
						2013-14: mean 0·38, SE: 0·03	
Yang et al,	National:	Consumer	The Bai and Perron	Exposure:	Estimated	Bai & Perron's test indicated a	Selection total:
2019	USA	Expenditure	test applied to	Commence-	average weekly	structural break in protein source	2
	Local: n/a	Survey (CES).	examine trend	ment of GR	expenditures for	expenditure near October 2009,	Comparability
		Sample size not	changes. Time-	(time)	each household	indicative that protein expenditure	total: 1
		stated.	Varying AIDS used to	(before/after	by protein source	patterns were affected by the Great	Outcomes
			estimate the protein	2009)	category and	Recession.	total: 2
			demand system.	Time: January	multiplied these	Beef	Total score: 5
			Iterated Seemingly	1998 and	expenditures by	Time trend estimate from Time-	
			Unrelated Regression	December	the number of	Varying AIDS estimation across U.S.	
			(ITSUR) method used	2016.	weeks in each	household income quintiles.	
			to estimate		month to obtain	Average household: -0.0002 (0.0000)	
			time-varying demand		average monthly	(significant at 1%)	
			systems with centred		household	Statistical comparison of own price	
			prices. TV-AIDS used		expenditure.	elasticities of demand for protein	
			to calculate		Expenditure (\$)	sources across different U.S. Income	
			expenditure and		on protein	Strata, Pre- and Post-October 2009.	
			price elasticities for		products: beef,	Average household:	
			protein sources are		pork, poultry, fish	pre-2009: -0.6041 (0.1494),	

	calculated before and	& seafood, eggs,	post-2009: -0.5421 (0.1733)	
	after the break	dairy, dried beans	(significant at 1% level)	
	date.	and other meat.	Income auintile 1:	
			pre-2009: -0.7606 (0.3032).	
			post-2009: -0.7263 (0.3457)	
			Income quintile 2:	
			pre-2009 - 0.4560 (0.3212)	
			$post-2009^{\circ} = 0.4012 (0.3618)$	
			Income quintile 3:	
			$pre_{-2009} = 0.9018 (0.2318)$	
			pre-2009: $-0.9967(0.2516)$	
			post-20090.8807 (0.2004)	
			$r_{r_{1}} = 2000; 0.6012 (0.2147)$	
			p_1e_2009 . $-0.6912(0.5147)$,	
			post-20090.0434 (0.3711)	
			pre-2009: -0.4100(0.2614),	
			post-2009: -0.2960 (0.3116)	
			(significant at 5% level)	
			Statistical comparison of expenditure	
			elasticities of demand for protein	
			sources across different U.S. income	
			strata, pre- and post-October 2009.	
			Average household:	
			pre-2009: 1.4060 (0.0728),	
			post-2009: 1.4555 (0.0817)	
			(time difference significant at 1% level)	
			Income quintile 1:	
			pre-2009: 1.3101 (0.0683),	
			post-2009: 1.3449 (0.0760)	
			(time difference significant at 1% level)	
			Income quintile 2:	
			pre-2009: 1.4369 (0.0858),	
			post-2009: 1.4745 (0.0932)	
			(time difference significant at 1% level)	
			Income quintile 3:	
			pre-2009: 1.2293 (0.0718),	

			$post_2009: 1.2575(0.0806)$	
			(cignificant at 1% ovel)	
			(Significant at 1% level)	
			pre-2009: 1.5825 (0.1060),	
			post-2009: 1.6535 (0.1189)	
			(time difference significant at 1% level)	
			Income quintile 5:	
			pre-2009: 1.5698 (0.0909),	
			post-2009: 1.6486 (0.1035)	
			(time difference significant at 1% level)	
			Pork	
			Time trend estimate from Time-	
			Varying AIDS estimation across U.S.	
			household income quintiles.	
			Average household: -0.0001 (0.0000)	
			Statistical comparison of own price	
			elasticities of demand for protein	
			sources across different U.S. Income	
			Strata, Pre- and Post-October 2009.	
			Average household:	
			pre-2009: -0.7140 (0.2076).	
			post-2009: -0.6890 (0.2211)	
			(time difference significant at 10%	
			level)	
			Income quintile 1:	
			pre-2009: -0.6760 (0.4027)	
			$post-2009^{\circ} = 0.6372 (0.4381)$	
			Income quintile 2:	
			pre-2009 - 1 1869 (0.4249)	
			post-2009(-1.1908(0.4243))	
			Income quintile 3:	
			$pre_{-2009} = 1.3935 (0.3665)$	
			$p_{1} = 2003$. $1.3333 (0.3003)$,	
			1031-2003. $-1.4310(0.4011)$	
			$r_{r} = 2000; 0 \in 0 \in (0, 4272)$	
			pre-2009: -0.6596 (0.4272),	
			post-2009: -0.6441 (0.4408)	

			Income quintile 5:	
			pre-2009: 0.0751 (0.4123),	
			post-2009: -0.1484 (0.4386)	
			(time difference significant at 1% level)	
			Statistical comparison of expenditure	
			elasticities of demand for protein	
			sources across different U.S. income	
			strata, pre- and post-October 2009.	
			Average household:	
			pre-2009: 1.3650 (0.0676),	
			post-2009: 1.3932 (0.0728)	
			(time difference significant at 1% level)	
			Income quintile 1:	
			pre-2009: 1.2193 (0.0620),	
			post-2009: 1.2405 (0.0680)	
			(time difference significant at 1% level)	
			Income quintile 2:	
			pre-2009: 1.3000 (0.0768).	
			post-2009: 1.3278 (0.0839)	
			(time difference significant at 1% level)	
			Income quintile 3:	
			pre-2009: 1.1723 (0.0765).	
			post-2009 [,] 1 1895 (0.0841)	
			(time difference significant at 5% level)	
			Income quintile 4:	
			pre-2009: 1.2316 (0.0938).	
			post-2009 [,] 1 2409 (0.0976)	
			(time difference significant at 5% level)	
			Income quintile 5:	
			pre-2009: 1 1462 (0 0908)	
			post-2009(111402(0.0900))	
			Poultry	
			Time trend estimate from Time-	
			Varving AIDS estimation across U.S.	
			household income quintiles	
			Average household: $-0.0001 (0.0001)$	
			Average nousenoid: -0.0001 (0.0001)	

			Statistical comparison of own price	
			elasticities of demand for protein	
			sources across different U.S. Income	
			Strata, Pre- and Post-October 2009.	
			Average household:	
			pre-2009: –0.7641 (0.3076),	
			post-2009: -0.7701 (0.3004)	
			Income quintile 1:	
			pre-2009: -0.1358 (0.5678),	
			post-2009: -0.1883 (0.5342)	
			Income quintile 2:	
			pre-2009: -1.4817 (0.5544).	
			post-2009: -1.4548 (0.5215)	
			Income quintile 3:	
			pre-2009: -0 1674 (0 5484)	
			$post-2009^{\circ} = 0.1851 (0.5323)$	
			Income quintile 4:	
			nre-20090.9748 (0.5758)	
			$post_2009^{\circ} = 0.9740 (0.9750),$	
			Income quintile 5:	
			$pre_{-2000} = -0.8643 (0.4026)$	
			$p_1 = 2003$: $0.8043 (0.4520)$	
			post-20090.8073 (0.4942) Statistical comparison of expanditure	
			<u>Statistical comparison of experiature</u>	
			elasticities of definand for protein	
			sources across different 0.5. Income	
			strata, pre- and post-October 2009.	
			Average household:	
			pre-2009: 0.9774 (0.0782),	
			post-2009: 0.9779 (0.0763)	
			Income quintile 1:	
			pre-2009: 0.9471 (0.0676),	
			post-2009: 0.9503 (0.0636)	
			Income quintile 2:	
			pre-2009: 1.0904 (0.0848),	
			post-2009: 1.0852 (0.0799)	
			Income quintile 3:	

			2000 4 2407 (0 0000)	
			pre-2009: 1.2497 (0.0886),	
			post-2009: 1.2430 (0.0862)	
			(significant at 1% level)	
			Income quintile 4:	
			pre-2009: 0.9029 (0.1006),	
			post-2009: 0.9030 (0.1004)	
			Income quintile 5:	
			pre-2009: 0.8755 (0.0901),	
			post-2009: 0.8754 (0.0902)	
			Fish and seafood	
			Time trend estimate from Time-	
			Varving AIDS estimation across U.S.	
			household income quintiles	
			Average household: 0.0001 (0.0000)	
			(significant at 10%)	
			Statistical comparison of own price	
			elasticities of demand for protein	
			sources across different U.S. Income	
			Strata Pre- and Post-October 2009	
			<u>Strata, FTE- and FOSt-October 2005.</u>	
			Average household.	
			pre-20091.0979 (0.1884),	
			post-2009: -1.7217 (0.1949)	
			(time difference significant at 1% level)	
			Income quintile 1:	
			pre-2009: –1.5358 (0.4892),	
			post-2009: -1.5438 (0.4882)	
			Income quintile 2:	
			pre-2009: –1.7316 (0.4272),	
			post-2009: –1.7620 (0.4465)	
			Income quintile 3:	
			pre-2009: –2.0454 (0.3689),	
			post-2009: -2.0847 (0.3836)	
			(time difference significant at 1% level)	
			Income quintile 4:	
			pre-2009: –1.8858 (0.3658),	
			post-2009: -1.9411 (0.3886)	

			(time difference significant at 5% level)	
			Income quintile 5:	
			pre-2009 [.] –1 4240 (0 3158)	
			post-2009: -1.4365 (0.3256)	
			Statistical comparison of expenditure	
			elasticities of demand for protein	
			sources across different U.S. income	
			strata pre- and post-October 2009	
			Average household:	
			$r_{P} = 2009 \cdot 1.0899 (0.0940)$	
			$p_{0} = 2009 \cdot 1.0099 (0.0940),$	
			Income quintile 1:	
			re_{-2009} : 1 3160 (0 1189)	
			post-2009: 1.3136 (0.1139)	
			(time difference significant at 1% level)	
			Income quintile 2:	
			$re_{2009} \cdot 0.9174 (0.1167)$	
			$p_{12} = 2009 \cdot 0.917 + (0.1107),$	
			Income quintile 3:	
			ncome quintile 5.	
			$p_1 = 2009$. 1.2130 (0.1134),	
			(time difference significant at 10%	
			level)	
			$r_{e} = 2009 \cdot 1.0206 (0.1336)$	
			pre-2009: 1.0200 (0.1330),	
			post-2009. 1.0219 (0.1419)	
			$r_{0} = 2009 \cdot 1.0571 (0.1164)$	
			$p_1e_2009.1.0371(0.1104),$	
			post-2009. 1.0388 (0.1198)	
			LEES Time trand actimate from Time	
			Varving AIDS actimation across U.S.	
			varying AIDS estimation across 0.5.	
			Average household: 0.0001 (0.0002)	
			Average nousenoid: U.UUU1 (U.UUUU)	
			(significant at 1%)	

			Statistical comparison of own price	
			elasticities of demand for protein	
			sources across different U.S. Income	
			Strata, Pre- and Post-October 2009.	
			Average household:	
			pre-2009: –0.1657 (0.0598),	
			post-2009: –0.3660 (0.0454)	
			(time difference significant at 1% level)	
			Income quintile 1:	
			pre-2009: –0.0681 (0.1242),	
			post-2009: -0.2561 (0.0995)	
			(time difference significant at 1% level)	
			Income quintile 2:	
			pre-2009: -0.3828 (0.1150),	
			post-2009: -0.5173 (0.0903)	
			(time difference significant at 1% level)	
			Income guintile 3:	
			pre-2009: –0.0679 (0.1331).	
			post-2009: -0.2808 (0.1027)	
			(time difference significant at 1% level)	
			Income quintile 4:	
			pre-2009: -0.0232 (0.1220).	
			post-2009: -0.2732 (0.0909)	
			(time difference significant at 1% level)	
			Income quintile 5:	
			pre-2009: -0.2898 (0.1160).	
			post-2009: -0.4888 (0.0833)	
			(time difference significant at 1% level)	
			Statistical comparison of expenditure	
			elasticities of demand for protein	
			sources across different U.S. income	
			strata, pre- and post-October 2009	
			Average household:	
			pre-2009: 0 9406 (0 0762)	
			post-2009: 0.9400 (0.0702),	
			Income quintile 1:	
			income quintile 1.	

	pre-2009: 0.7447 (0.0747),	
	post-2009: 0.7958 (0.0598)	
	(time difference significant at 1% level)	
	Income quintile 2:	
	pre-2009: 0.6984 (0.0848),	
	post-2009: 0.7637 (0.0664)	
	(time difference significant at 1% level)	
	Income quintile 3:	
	pre-2009: 0.9371 (0.1111),	
	post-2009: 0.9515 (0.0858)	
	Income quintile 4:	
	pre-2009: 0.8624 (0.1079),	
	post-2009: 0.8976 (0.0803)	
	Income quintile 5:	
	pre-2009: 0.7619 (0.1078),	
	post-2009: 0.8291 (0.0774)	
	(time difference significant at 5% level)	
	Dairy products	
	Time trend estimate from Time-	
	Varying AIDS estimation across U.S.	
	household income quintiles.	
	Average household: 0.0001 (0.0000)	
	(significant at 1%)	
	Statistical comparison of own price	
	elasticities of demand for protein	
	sources across different U.S. Income	
	Strata, Pre- and Post-October 2009.	
	Average household:	
	pre-2009: 0.0640 (0.0869).	
	post-2009: 0.0306 (0.0846)	
	(time difference significant at 1% level)	
	Income quintile 1:	
	pre-2009: 0.0908 (0.2120).	
	post-2009: 0.0668 (0.2020)	
	(time difference significant at 1% level)	
	Income guintile 2:	

	pre-20090.3015 (0.1810),	
	post-2009: -0.38/1 (0.1/69)	
	(time difference significant at 1% level)	
	Income quintile 3:	
	pre-2009: –0.3235 (0.1761),	
	post-2009: -0.3502 (0.1698)	
	(time difference significant at 1% level)	
	Income quintile 4:	
	pre-2009: 0.1264 (0.1605),	
	post-2009: 0.1004 (0.1577)	
	(time difference significant at 1% level)	
	Income quintile 5:	
	pre-2009: 0.2733 (0.1428),	
	post-2009: 0.2362 (0.1392)	
	(time difference significant at 1% level)	
	Statistical comparison of expenditure	
	elasticities of demand for protein	
	sources across different U.S. income	
	strata, pre- and post-October 2009.	
	Average household:	
	pre-2009: 0.6028 (0.0371),	
	post-2009: 0.6194 (0.0355)	
	(significant at 1% level)	
	Income guintile 1:	
	pre-2009: 0.6774 (0.0428),	
	post-2009: 0.6882 (0.0413)	
	(time difference significant at 1% level)	
	Income guintile 2:	
	pre-2009: 0.6085 (0.0454).	
	post-2009: 0.6242 (0.0436)	
	(time difference significant at 1% level)	
	Income guintile 3:	
	pre-2009: 0.6819 (0.0471).	
	post-2009; 0.6979 (0.0447)	
	(significant at 1% level)	
	Income quintile 4:	

			$pre_{-}2009 \cdot 0.6181 (0.0468)$	
			pre-2009. 0.0181 (0.0408),	
			post-2009: 0.6309 (0.0452)	
			(time difference significant at 1% level)	
			Income quintile 5:	
			pre-2009: 0.6295 (0.0433),	
			post-2009: 0.6455 (0.0414)	
			(time difference significant at 1% level)	
			Dried beans	
			Time trend estimate from Time-	
			Varying AIDS estimation across U.S.	
			household income quintiles.	
			Average household: 0.0000 (0.0000)	
			Statistical comparison of own price	
			elasticities of demand for protein	
			sources across different U.S. Income	
			Strata, Pre- and Post-October 2009.	
			Average household:	
			pre-2009: 0.0922 (0.5580),	
			post-2009: -0.3399 (0.3369)	
			(time difference significant at 10%	
			level)	
			Income quintile 1:	
			pre-2009: 1.7225 (1.1388).	
			post-2009: 0.8141 (0.7593)	
			(significant at 5% level)	
			Income quintile 2:	
			pre-2009: -1 3724 (1 0043)	
			$post-2009^{\circ} - 1,2381 (0,6463)$	
			Income quintile 3:	
			pre-2009: -1.0460(1.0277)	
			pre 2003: 1.0400 (1.0277),	
			Income quintile 4:	
			$nre_{-2009} - 0.2507 (1.1989)$	
			$p_1 \in 2009$. $0.2507 (1.1503)$, $p_2 \in 2009$. $-0.5834 (0.6665)$	
			$p_{031-2003} = 0.3034 (0.0003)$	
			pre-2009: 1.2870 (1.1446),	
			post-2009: 0.2059 (0.6036)	
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			(time difference significant at 5% level)	
			Statistical comparison of expenditure	
			elasticities of demand for protein	
			sources across different U.S. income	
			strata, pre- and post-October 2009.	
			Average household:	
			pre-2009: 0.6096 (0.3401),	
			post-2009: 0.7642 (0.2055)	
			Income quintile 1:	
			pre-2009: 1.3432 (0.3264),	
			post-2009: 1.2286 (0.2174)	
			Income quintile 2:	
			pre-2009: -0.1312 (0.3484),	
			post-2009: 0.2698 (0.2249)	
			(time difference significant at 1% level)	
			Income quintile 3:	
			pre-2009: 0.6377 (0.3940),	
			post-2009: 0.7694 (0.2508)	
			Income quintile 4:	
			pre-2009: 0.9585 (0.5122),	
			post-2009: 0.9769 (0.2848)	
			Income quintile 5:	
			pre-2009: 1.0682 (0.4903),	
			post-2009: 1.0360 (0.2585)	
			Other meat	
			Time trend estimate from Time-	
			Varying AIDS estimation across U.S.	
			household income quintiles.	
			Average household: 0.0000 (0.0000)	
			Statistical comparison of own price	
			elasticities of demand for protein	
			sources across different U.S. Income	
			Strata, Pre- and Post-October 2009.	
			Average household:	
			pre-2009: –1.1329 (0.1851),	

			post-2009: -1.1229 (0.1714)	
			Income quintile 1:	
			pre-2009: -1 0183 (0 4053)	
			$post_2009$ = 1.0103 (0.4000),	
			Income quintile 2:	
			$r_{2} = 2000; -1.1625 (0.4210)$	
			$p_1e_2009: -1.1023(0.4210),$	
			post-2009. $-1.1008(0.4149)$	
			pre-2009: -1.0085 (0.3379),	
			post-2009: -1.0074 (0.3086)	
			Income quintile 4:	
			pre-2009: –1.1367 (0.3979),	
			post-2009: -1.1215 (0.3559)	
			Income quintile 5:	
			pre-2009: –1.2979 (0.3386),	
			post-2009: -1.2713 (0.3086)	
			Statistical comparison of expenditure	
			elasticities of demand for protein	
			sources across different U.S. income	
			strata, pre- and post-October 2009.	
			Average household:	
			pre-2009: 0.8462 (0.0703),	
			post-2009: 0.8568 (0.0655)	
			(time difference significant at 5% level)	
			Income quintile 1:	
			pre-2009: 0.8861 (0.0764),	
			post-2009: 0.8882 (0.0750)	
			Income quintile 2:	
			pre-2009: 0.9458 (0.0906).	
			post-2009: 0.9465 (0.0895)	
			Income quintile 3	
			pre-2009: 0 7464 (0 0875)	
			post-2009: 0 7661 (0 0807)	
			(time difference significant at 1% level)	
			Income quintile 1:	
			$r_{1} = 0.000 \cdot 0.000 (0.1014)$	
			pre-2009: 0.8189 (0.1014),	1

Macronutrie Bonaccio et al, 2014 Ref:	nt intake National: Italy Local: the Molise region	Moli-Sani study. Adults aged over 35 (mean age 54.4); percentage male: 47.30%. Randomly recruited. Total n=21,001.	Serial cross-sectional study of participants recruited before and after the recession. Means and p-values of grams/day and % contribution adjusted for age and sex.	Exposure: Commence- ment of GR (time) Time point 1: Recruited in 2005-2006 (n=6999) Time point 2: Recruited in 2007-2010 (n=14,002)	Grams/day of carbohydrates, saturated fats and fibre (means + SD), carbohydrate, protein and fat contribution to energy intake (%, means + SD)	post-2009: 0.8370 (0.0913) (time difference significant at 10% level) Income quintile 5: pre-2009: 1.0239 (0.0969), post-2009: 1.0218 (0.0881) Carbohydrates: Grams/day: 2005/6: 261.8 (95.1) 2007-2010: 258.5 (86.5) p-value <0.0001 % contribution: 2005/6: 47.6, 2007-2010: 46.9 p-value <0.0001 Protein: % contribution: 2005/6: 15.5, 2007-2010: 15.8 p-value <0.0001 Saturated fats: Grams/day: 2005/6: 27.7 (11.0) 2007-2010: 28.1 (9.8) p-value <0.0001 Fats: % contribution: 2005/6: 31.8, 2007-2010:32.3 p-value <0.0001 Fibre:	Selection total: 3 Comparability total: 2 Outcomes total: 2 Total score: 7
						Grams/day: 2005/6: 21.8 (7.6) 2007-2010: 20.0 (6.5) p-value <0.0001	
Çirakli & Yildirim, 2019	National: Turkey Local: n/a	OECD data.	Used ARDL bounds testing and cointegration analysis including OLS: unit root tests, Augmented Dickey-	Exposure: Commence- ment of GR (time), using real GDP, unemploy-	Used OECD data on annual per capita sugar consumption (kg)	Result of ADF Unit Root Test: level values t: 0.49, p 0.817; first difference values: t: -6.31 (significant at 1% level), p: 0.000 Result of ARDL correction model:	Selection total: 2 Comparability total: 1 Outcomes total: 1

			Fuller Test, Unrestricted Error Correction Model using OLS and Wald test, estimation of long-term coefficients and creation of Error Correction Model.	ment rates, inflation rate as indicators of crises. Time: 1974- 2015 (42 time points), covering economic crises in 1994, 2001, 2009).		Change D 2009: coefficient: 0.188, t: 3.369, p: 0.002 (significant positive impact on sugar consumption).	Total score: 4
Florkowski 2012	National: Poland Local: n/a	The study is based on data obtained from annual Glowny Urzad Statystyczny surveys of Polish households.	Serial cross-sectional. Households average yearly expenditure.	Exposure: Commence- ment of GR (time) Time point 1: 2004 Time point 2: 2005 Time point 3: 2006 Time point 4: 2007 Time point 5: 2008	Average expenditure on sugar (in zloty).	2006: All households, n= 17878, average expenditure: 16.03 Households above minimum income, n= 8884, average expenditure: 16.14 Households at or below minimum income, n= 8994, average expenditure: 15.92 2007: All households, n= 15554, average expenditure: 15.44 Households above minimum income, n= 8098, average expenditure: 15.77 Households at or below minimum income, n= 7456, average expenditure: 15.08 2008: All households, n= 15163, average expenditure: 13.90 Households above minimum income, n= 8277, average expenditure: 14.17 Households at or below minimum income, n= 6886, average expenditure: 13.57	Selection total: 2 Comparability total: 0 Outcomes total: 1 Total score: 3

Griffith et	National: UK	Kantar	Longitudinal study.	Exposure:	Healthy Eating	HEI score – sodium:	Selection total:
al, 2016a	Local: n/a	Worldpanel	HEI scores/calorie	Commence-	(HEI) score for	Max score: 10	3
		data for UK	shares/grams per	ment of GR	sodium and	Mean in 2005-7: 6.42	Comparability
		households.	100g and percentage	(time)	saturated fats.	Change to 2010-12: 0.93	total: 2
		n=14,694.	change.	Time point 1:	Share of calories	Percentage change to 2010-12: 14.5	Outcomes
			_	2005-2007,	from protein,	HEI score – saturated fats:	total: 2
				Time point 2:	saturated fat,	Max score: 10	Total score: 7
				2010-12	unsaturated fat,	Mean in 2005-7: 2.70	
					sugar, non-sugar	Change to 2010-12: 0.27	
					carbohydrates.	Percentage change to 2010-12: 10.0	
					Grams per 100g	Share of calories from protein:	
					for salt and fibre.	2005-7: 14.88	
					Outcome data of	2010-12: 14.76	
					food purchases	Change to 2010-12: - 0.12,	
					from all types of	Percentage change: - 0.81	
					stores using an	Share of calories from saturated fat:	
					electronic hand-	2005-7: 14.83	
					held scanner in	2010-12: 14.59	
					the home.	Change to 2010-12: - 0.23,	
						Percentage change: - 1.57	
						Share of calories from unsaturated	
						fat:	
						2005-7: 22.64	
						2010-12:22.79	
						Change to 2010-12: 0.15,	
						Percentage change: 0.67	
						Share of calories from sugar:	
						2005-7: 22.73	
						2010-12:22.82	
						Change to 2010-12: 0.09,	
						Percentage change: 0.41	
						Share of calories from non-sugar	
						carbohydrates:	
						2005-7: 24.92	
						2010-12: 25.03	
						Change to 2010-12: 0.11,	

						Percentage change: 0.43 Grams per 100g – salt: 2005-7: 0.50 2010-12: 0.49 Change to 2010-12: - 0.00, Percentage change: - 0.10 Grams per 100g – fibre: 2005-7: 1.12 2010-12: 1.19 Change to 2010-12: 0.07, Percentage change: 6.32	
Griffith et al, 2013	National: UK Local: n/a	Kantar Worldpanel data. N=15,850.	Longitudinal. Regressed variables on three time-period dummies and controlled for month and household fixed, estimating regression separately by household.	Exposure: Commence- ment of GR (time) Time point 1: 2005-2007 Time point 2: 2008-2009 Time point 3:	Change in saturated fat, sugar, salt and protein (g per 100g). Participants record spending on all grocery purchases brought into the home via an electronic hand- held scanner in the home.	Change in saturated fat: Single non-pensioners: 2008-09: 0.08, 2010-12: 0.09 Single pensioners: 2008-09: 0.11, 2010-12: 0.12 Couple non-pensioners: 2008-09: 0.05, 2010-12: 0.07 Couple pensioners: 2008-09: 0.08, 2010-12: 0.07 Single parents: 2008-09: 0.04, 2010-12: 0.07 Single parents: 2008-09: 0.04, 2010-12: 0.08 2+ adults, young children: 2008-09: 0.03, 2010-12: 0.05 2+ adults, older children: 2008-09: 0.02, 2010-12: 0.03 All households: 2008-09: 0.06, 2010-12: 0.08 All changes are statistically different from zero at the 99% level. Change in sugar: Single non-pensioners: 2008-09: 0.08, 2010-12: 0.09, Single pensioners:	Selection total: 3 Comparability total: 2 Outcomes total: 2 Total score: 7

		-	2008 00. 0 11 2010 12. 0 12	
			2008-09. 0.11, 2010-12. 0.12,	
			Couple non-pensioners:	
			2008-09: 0.05, 2010-12: 0.07,	
			Couple pensioners:	
			2008-09:0.08, 2010-12: 0.12,	
			Multi-adult households:	
			2008-09: 0.04, 2010-12: 0.07	
			Single parents:	
			2008-09: 0.04, 2010-12: 0.08	
			2+ adults, young children:	
			2008-09: 0.03, 2010-12: 0.05	
			2+ adults, older children:	
			2008-09:0.02, 2010-12: 0.03	
			All households:	
			2008-09: 0.06, 2010-12: 0.08	
			All changes are statistically different	
			from zero at the 99% level, apart from	
			'2+ adults, older children (2008–09 and	
			2010–12)'.	
			Change in salt:	
			Single non-pensioners:	
			2008-09: 0.17, 2010-12: 0.20	
			Single pensioners:	
			2008-09: 0.33, 2010-12: 0.35	
			Couple non-pensioners:	
			2008-09: 0.16, 2010-12: 0.29	
			Couple pensioners:	
			2008-09: 0.21, 2010-12: 0.30	
			Multi-adult households:	
			2008-09: 0.16, 2010-12: 0.18	
			Single parents:	
			2008-09: 0.13, 2010-12: 0.26	
			2+ adults, young children:	
			2008-09: 0.29, 2010-12: 0.44	
			2+ adults, older children:	
			2008-09: 0.01, 2010-12: 0.00	

						All households: 2008-09: 0.20, 2010-12: 0.27 All changes are statistically different	
						Change in protein:	
						Single non-pensioners:	
						2008-09: 0.09, 2010-12: 0.12,	
						Single pensioners:	
						2008-09: 0.08, 2010-12: 0.08,	
						Couple non-pensioners:	
						2008-09: 0.04, 2010-12: 0.05,	
						Couple pensioners:	
						2008-09:0.09, 2010-12:0.09,	
						Multi-adult households:	
						2008-09: 0.05, 2010-12:0.11	
						Single parents:	
						2008-09: 0.12, 2010-12: 0.21	
						2+ adults, young children:	
						2008-09: 0.10, 2010-12: 0.15	
						2+ adults, older children:	
						2008-09: 0.14, 2010-12: 0.20	
						All households:	
						2008-09: 0.08, 2010-12:0.11	
						All changes are statistically different	
11	No.	Deve alla alla alla	Control on a constitue of	.	Calavia intalia	from zero at the 99% level.	Calastian tatalı
nasan,		Bangladesh	design	Exposure:	from protoin (por	2010 COEfficient: 8.31 (5.38) (not	Selection total:
2019	Bangiadesn	Housenoid	The study used	commence-	conito nor dov)	significant)	3 Comparability
	LUCAL II/A	Evpenditure	difference_in_	(time)	capita per day),		total: 2
		Survey	difference	Time point 1:	colorie content of		Outcomes
		Beneated cross-	framework and OLS	2005	food items		total: 2
		sectional study	models including	(n=4 978)	ioou items.		Total score: 7
		using two-stage	district fixed effects	time point 2°			
		stratified	and employing	2010			
		random	clustered standard	(n=6.744).			
		sampling.	errors (weighted).				

		Analysis was done for those who buy rice (compared to autarkic households and rice sellers, but there was no significant difference between these types). n=11,722					
Marcotte- Chenard	National: USA Local: n/a	National Health and Nutrition Examination Survey. Adults aged between 20-85 (average age 49), 48.1% male. N=38,541	Serial cross-sectional study. Factorial ANOVAs (post hoc test and contrast) conducted to compare 1999- 2006 intervals to 2006-2007 intervals.	Exposure: Commence- ment of GR (time) Time point 1: 1999-2006 Time point 2: 2007-2008.	24-hr dietary recall used to calculate average daily protein, carbohydrate, fats, sodium and sugar intake in men and women.	Protein:Men:1999-2006: 93 ± 46 , 2007-2008: 89 ± 45 g/day; P = 0.0001.Women:1999-2006: 68 ± 33 , 2007-2008: 66 ± 32 g/day; P = 0.017.Carbohydrates:Men:1999-2006: 289 ± 137 , 2007-2008:279.0 ± 128 g/day; P = 0.0001.Women:1999-2006: 229 ± 107 , 2007-2008: 213 ± 88 g/day; P = 0.0001.Fats:Men:Not significant – not reported.Women:1999-2006: 66 ± 36 , 2007-2008: 63 ± 31 g/day; P = 0.0001.Sugar:Men:	Selection total: 3 Comparability total: 1 Outcomes total: 2 Total score: 6

						2001-2006: 137.7 ± 92.7. 2007-2008:	
						127.7 + 92.7 g/day; P = 0.0001.	
						Women:	
						2001-2006: 110.9 + 70.6. 2007-2008:	
						101.4 + 65.8g/day: P = 0.0001.	
						Sodium:	
						Men [.]	
						1999-2006 [,] 3718 + 1923, 2007-2008 [,]	
						$3602 \pm 1930 \text{ mg/day: P = 0.002}$	
						Women:	
						$1999-2006 \cdot 2831 + 1410 \cdot 2007-2008 \cdot$	
						$2668 \pm 1415 \text{ mg/day: P = 0.0001}$	
Martin-	National	Housebolds	Serial cross-sectional	Exposure:	24-hour food	2007 to 2008: 3% decrease in sugar	Selection total:
Prevel et	Burkina Faso	randomly	Changes in food-	Commence-	expenditure		3
al 2012	Local	selected from	related indicators	ment of GR	Obtain a food		Comparability
41, 2012	011292-		between 2007 and	(time)	hasket price for		total: 2
	dougou		2008 were analyzed	Time Point 1	sugar ner dav		Outcomes
	uougou	age of	using chi-square tests	Iuly 2007	calculating by		total: 2
		household	for proportions	(n-3017)	summing mean		Total score: 7
		head: 12		Time Point 2:	nrice ner kilogram		
		household head			and prices		
		86 8% (2007)		(n-3002)	multiplied by		
		and 87.8%		(11-5002)	daily sugar		
		(2008) male			consumption		
Mahsani	Clobal: 62	(2006) Male.	Investigating	Exposuro	Drotoin Intako nor	Average change in growth rate (t test):	Solaction total:
Charaglau	Giubai. 05	Reminart anu	whether growth	exposure.	Conito Dor Doy (g)	Average change in growth rate (t-test).	
Cheragiou,	(and 100	Rogon s dataset	rates of different		Capita Per Day (g)	-3.2 (p < 0.01)	Z Comparability
2016	(and 100		rates of uniferent	falling by 150/		crises with recessions, average change	
	recessions).	data 2010, 02	variables are affected			In growth rate $(t-test)$: -4.0 (p < 0.01)	
		data 2010. 93	by financial crises.	or more		crises without recessions, average	Outcomes
		observations.		against the US		change in growth rate (t-test): -2.3 (p <	
				dollar or		U.U1) Colorise reduced in coordination	iotal score: 3
				Danking		Calories reduced in economic crises	
				aistress		with and without recessions.	
				including			
				closures,			
				mergers and			

Shabnam et al., 2016	National: Pakistan Local: n/a	Household Integrated Economic Survey (HIES), a nationally representative survey of rural and urban areas (14 big cities and 81 districts in each of the country's four provinces). Mean age: 45, Female-headed households 7.5% in 2005 and 8.4% in 2010.	Serial cross-sectional. Food budget shares of households across the years and quartiles of the expenditure distribution. Quantile regression on demand equation including per capita monthly expenditure, price and household demographic characteristics.	government takeovers. Data from 1981-2007. Exposure: Commence- ment of GR (time) Time point 1: 2005-6 (n=14,863) Time point 2: 2010-11 n= 15,191	The data on household food consumption covered a period of 14 days and 30-days call period. Price elasticity of carbohydrates, fats and proteins; sugar and sugar preparations budget share (kg) (% of expenditure).	Price elasticity for carbohydrates: 2005-2006: -0.003 2010-2011: -0.143 Price elasticity for fats: 2005-2006: -0.004 2010-2011: -0.302 Price elasticity for proteins: 2005-2006: -0.001 2010-2011: -0.183 Sugar and sugar preparations budget share (kg) (% of expenditure): 2005 - 2006 All: 7.17, Q1: 8.35, Q3: 5.73 2010-2011: All: 9.65, Q1: 11.33, Q3: 7.73 Log price sugar & sugar preparations: Estimate: 0.112 (0.006) $\theta = 0.10: 0.125$ (SE 0.018) (p < 0.01); $\theta = 0.50: 0.166$ (SE 0.018) (p < 0.01);	Selection total: 3 Comparability total: 2 Outcomes total: 2 Total score: 7
		2010. N= 14,863 and 15,191				$\theta = 0.10; 0.123 (SE 0.018) (p < 0.01); \\ \theta = 0.50; 0.166 (SE 0.018) (p < 0.01); \\ \theta = 0.90; 0.105 (SE 0.028) (p < 0.01), \\ p = 0.0107 \\ Log price sugar & sugar preparations* \\ Y2010; \theta = 0.10; -0.095 (SE 0.024) \\ (p < 0.01); \\ \theta = 0.50; -0.123 (SE 0.021) (p < 0.01); \\ \theta = 0.90; -0.068 (SE 0.029) (p < 0.01), \\ p = 0.0634 \\ \end{tabular}$	
Smed et	National:	GfK Panel	Longitudinal.	Exposure:	Constructed	Total fat:	Selection total:
al., 2017	Denmark	Services	Fixed methods	Consumer	consumption per	CCI (β1) coefficient: 3·82, P value:	4
	Local: n/a	Scandinavia of	econometric	Confidence	individual in	0.0000	Comparability
		households of	methods to control	Interval as a	households by		total: 2
		working age.	for unobserved	proxy for	dividing each		

		N=3440	heterogeneity. Unemployment, single, location and number of children included in model. If increasing CCI is associated with increasing consumption, an economic downturn is associated with decreasing consumption and vice versa.	economic downturn. Time: January 2008 to December 2012.	household's consumption data with weights constructed from gender- and age- dependent daily energy intake. Monthly purchases at brand level concatenated into macronutrients: total fat, saturated fat, added sugar, fibre, carbohydrates and proteins (grams/person/ month).	CCI (β 1) controlled for energy consumption: coefficient: 3·61, P value: 0·0000 Saturated fat CCI (β 1): coefficient: 1·90, P value: 0·0000 CCI (β 1) controlled for energy consumption: coefficient: 1·80 P value: 0·0000 Added sugar CCI (β 1) coefficient: -2·49, P value: 0·7960 CCI (β 1) coefficient: -2·49, P value: 0·7960 CCI (β 1) controlled for energy consumption: coefficient: -6·27 P value: 0·0180 Fibre CCI (β 1) coefficient: 0·09, P value: 0·6660 CCI (β 1) coefficient: 0·09, P value: 0·6660 CCI (β 1) controlled for energy consumption: coefficient: 0·05 P value: 0·8020 Carbohydrates CCI (β 1) coefficient: -2·78, P value: 0·7830 CCI (β 1) controlled for energy consumption: coefficient: -7·05, P value: 0·0000 Proteins CCI (β 1) coefficient: 3·37, P value: 0·0000	Outcomes total: 2 Total score: 8
						value: 0.0000 Proteins CCI (β1) coefficient: 3.37, P value: 0.0000 CCI (β1) controlled for energy	
						consumption: coefficient: 3·20, P value: 0·0000	
Todd, 2014	National: USA Local: n/a	National Health and Nutrition	Serial cross-sectional. multivariate linear regression models	Exposure: Commence-	Dietary intake for one 24 h period is collected using	Percentage calories from fat	Selection total: 3

	Examination	were used to	ment of GR	the Automated	Unconditional and conditional	Comparability
	Survey	estimate the	(time)	Multinle Pass	differences in mean outcomes	total 2
	Adults horn	conditional changes	Time point 1.	Method:	between 2005-06 and 2009-10	Outcomes
	hetween 19/6-	in outcome variables	2005-2006	Share of calories	Unconditional: -0.96	total: 1
	1985 50	R estimated via	N-3 01/	from fat	Conditional upon age: - 1.26	Total score: 6
	hetween the	weighted ordinary	Time point 2:	saturated fat and	(difference from unconditional is	
	area of $20 - 64$	least squares with SE	2007-2008	cholesterol (mg)	(unreference from unconditional is statistically significant with $p<0.01$)	
	during the study	accounting for the	2007-2008 N=2 204	and fibro (g)	Conditional upon ago, other	
	noriod 48 40%		Time point 2:	and fibre (g)	demographics: 1 12	
	periou. 46-49%	design Medel	2000 2010	consumption.	Conditional upon ago, other	
	111dle.	(conditioning)	2009-2010		demographics and incomes 1.15	
	N=9,839	(conditioning)	N=3,531		Conditional changes by subgroups	
		household size and			Conditional changes by subgroups.	
		indicators for gondor			Born 1940-85, Some conege of more:	
		indicators for gender,			2005-06: 34.36, Change 2005-06 to	
		ethnicity, maritai			2009-10: -1.15 (change is statistically	
		intake, data collected			Significant at P<0.05)	
		during weekend, and			Born 1946-85, no college education:	
		for the older conort,			2005-06: 32.81, Change 2005-06 to	
		education as			2009-10: -1.15 (change is statistically	
		controis.			significant at P<0.05)	
					Men, born 1946-85, no college:	
					2005-06: 32.64, Change 2005-06 to	
					2009-10: -1.40 (change is statistically	
					significant at P<0.05)	
					Adults born before 1946:	
					2005-06: 34.01, Change 2005-06 to	
					2009-10: 0.09 (estimate is different	
					from that for the group with at least	
					some college education, with p<0.10)	
					Percentage calories from saturated fat	
					Unconditional and conditional	
					differences in mean outcomes	
					between 2005-06 and 2009- 10 %	
					calories from sat fat:	
					Unconditional: -0.64	

			Conditional upon age: -0.71 (difference	
			from unconditional is statistically	
			significant with n (0.01)	
			Significant with $p<0.01$	
			Conditional upon age, other	
			demographics: -0.67	
			Conditional upon age, other	
			demographics, and income: -0.67	
			Conditional changes by subgroups:	
			Born 1946-85, some college or more:	
			2005-06: 11.47, Change 2005-06 to	
			2009-10: -0.76 (change is statistically	
			significant at P<0.01)	
			Born 1946-85, no college education:	
			2005-06: 11.02, Change 2005-06 to	
			2009-10: -0.57 (change is statistically	
			significant at P<0.01)	
			Men, born 1946-85, no college:	
			2005-06: 10.91, change 2005-06 to	
			2009-10: -0.50 (change is statistically	
			significant at P<0.1)	
			Adults born before 1946:	
			2005-06: 11.39. Change 2005-06 to	
			2009-10: - 0.37 (change is statistically	
			significant at $P<0.05$)	
			Cholesterol consumption:	
			Unconditional and conditional	
			differences in mean outcomes	
			between 2005-06 and 2009- 10	
			cholesterol.	
			Unconditional: -24.01	
			Conditional upon age: -24.54	
			Conditional upon age other	
			demographics: -24.38	
			Conditional upon age other	
			domographics and income: 24.10	
			Conditional changes by subgroups	
			<u>Conditional changes by subgroup:</u>	

Born 1946-85, some college or more: 2005-06: 313.96, Change 2005-06 to 2000-10: 22-70 (sharpe is statistically
2005-06: 313.96, Change 2005-06 to
2009-10: -33.70 (change is statistically
significant at P<0.01)
Born 1946-85, no college education:
2005-06: 297.84, Change 2005-06 to
2009-10: -11.54
Men, born 1946-85, no college:
2005-06: 357.04, Change 2005-06 to
2009-10: -8.11
Adults born before 1946:
2005-06: 257.57, change 2005-06 to
2009-10: - 14.01 (change is statistically
significant at P<0.1) (estimate is
different from that for the group with
at least some college education, with
p<0.10)
Fibre consumption:
Unconditional
differences in mean outcomes
between 2005-06 and 2009- 10 in
fibre:
Unconditional: 1.40
Conditional upon age: 1.23 (difference
from unconditional is statistically
significant with p<0.05)
Conditional upon age, other
demographics: 1.20
Conditional upon age, other
demographics, and income: 1.16
Difference in variable mean between
full model (conditional upon age, other
demographics and income) and
unconditional is statistically significant
with n<0.1

						Born 1946-85, some college or more: 2005-06: 16.74, Change 2005-06 to 2009-10: 1.60 (change is statistically significant at P<0.05) Born 1946-85, no college education: 2005-06: 15, Change 2005-06 to 2009- 10: 0.68 Men, born 1946-85, no college: 2005-06: 17.14, Change 2005-06 to 2009-10: 0.44 Adults born before 1946: 2005-06: 15.34, Change 2005-06 to 2009-10: 0.71	
Todd, 2017	National: USA Local: n/a	National Health and Nutrition Examination Survey. Includes working age adults between 25-65 (n=12,129), and a secondary sample of 15-24 year olds (23-32 year olds in 2013-2014) (n=5197).	Serial cross-sectional. Used multivariate linear regression models and ordinary least squares. Adjusted for age, household income relative to poverty, household size, and indicators for gender, ethnicity, marital intake, data collected during weekend, and for the older cohort, education as controls.	Exposure: Commence- ment of GR (time) Time point 1: 2005-2006 Time point 2: 2007-2008 Time point 3: 2009-2010 Time point 4: 2013-2014	Percent energy from fat and saturated fat; cholesterol (mg) and fibre (g) consumption. From 1-day dietary recall.	Percent energy from fat:Conditional differences with theirstandard errors, and percentagechange in estimated difference fromunconditional difference in % energyfrom fat:2007-08: β -0.16, SE: 0.472009-10: β -1.05, SE: 0.47, (estimate isstatistically significant p<0.05)	Selection total: 4 Comparability total: 2 Outcomes total: 2 Total score: 8

			Conditional differences with their	
			standard errors, and percentage	
			change in estimated difference from	
			unconditional difference in % energy	
			from saturated fat:	
			2007-08: β –0.18, SE: 0.18	
			2009-10: β –0.66, SE: 0.18 (estimate is	
			statistically significant p<0.01),	
			percentage change: 11	
			2011-12: β –0.79, SE: 0.19 (estimate is	
			statistically significant p<0.01),	
			percentage change: 2	
			2013-14 β –0.56, SE: 0.18 (estimate is	
			statistically significant p<0.01)	
			percentage change: -4	
			% energy from FAFH: β 0.01, SE: 0.00	
			(estimate is statistically significant	
			p<0.01)	
			% energy from fast foods: β 0.02, SE:	
			0.00 (estimate is statistically significant	
			p<0.01)	
			Constant: β 10.61, SE: 0.43 (estimate is	
			statistically significant p<0.01)	
			Cholesterol consumption (mg)	
			Conditional differences with their	
			standard errors, and percentage	
			change in estimated difference from	
			unconditional difference in	
			cholesterol:	
			2009-10: β –29.58, SE: 8.21 (estimate	
			is statistically significant p<0.01).	
			percentage change: 7	
			2011-12: β – 29.44. SE: 8.79 (estimate	
			is statistically significant $p < 0.01$).	
			percentage change: -1	

			2013-14 β –19.97, SE: 8.20 (estimate is	
			statistically significant p<0.05)	
			percentage change: 7	
			% energy from FAFH: β 0.96, SE: 0.13	
			(estimate is statistically significant	
			p<0.01)	
			% energy from fast foods: β –1.09, SE:	
			0.13 (estimate is statistically significant	
			p<0.01)	
			Constant: β 219.01, SE: 18.20 (estimate	
			is statistically significant p<0.01)	
			Fibre consumption (g)	
			Conditional differences with their	
			standard errors, and percentage	
			change in estimated difference from	
			unconditional difference in fibre:	
			2007-08: β –0.41, SE: 0.72	
			2009-10: β 1.00, SE: 0.56	
			percentage change: 24	
			2011-12: β 2.08, SE: 0.60 (estimate is	
			statistically significant p<0.01)	
			percentage change: 6	
			2013-14 β 1.08, SE: 0.50 (estimate is	
			statistically significant p<0.05)	
			% energy from FAFH: β –0.02, SE: 0.01	
			(estimate is statistically significant	
			p<0.01)	
			% energy from fast foods: β −0.03, SE:	
			0.01 (estimate is statistically significant	
			p<0.01)	
			Constant: β 14.05, SE: 1.17 (estimate is	
			statistically significant p<0.01)	