NHLBI Evidence Table: RF9-SR

PMID First Author	Title	Year Study	CVD RF by CQ	Study Origin	Setting Search Range	Data Sources	Study Eligibility Criteria	Number of Studies	Main Study Objective	Target Population	Patient Characteristics	Interv Studies (n)	Interv. Study	Interv. Type	Specific Intervention Examined	Intervention Results/Conclusions	OB Studies (n) OB Study Characteristic	s Observational Relationship Assessed	Observational Results/Conclusions	Main Reported Findings by Critical Question	Limitations of Studies Reviewed	Quality of SR
12131866 Clauss SB	Long-term safety and efficacy of low-fat diets in children and	Type	None Q10 (RF5, RF9)	USA Do	n't NR ow/NR	NR	NR	8 Evalua efficac	ate the long-term safety and cy of low-fat diets in children	Pediatric/ Young Adults	Age range: 0-12 yr	8 1	Characteristics NR	Behavioral	Low-fat diets	Significant decrease in the levels of TC or LDL-C was observed in each of the 5 studies in which efficacy		N/A	N/A	Q10: In each of the 5 studies in which efficacy was assessed, a significant decrease in the levels of TC or LDL-C was observed	NR	
	adolescents							and ad	udolescents with elevated na TC and LDL-C levels							was assessed 7 of 8 studies showed normal growth and development on a love fat diet. In 1 small observational retrospective study, here were small but significant decreases in growth rate with tow fat diet and low fat diet + bile acid sequestrant interventions. However, results in this study are condounded by inclusion of males & tennales during puberty. 13 of 8 studies, nutritional recognizements for calcium.				7 of 8 studies showed normal growth and development on a low fa diet. In 1 small observational retrospective study, here were small older help and separation retrospective study here were small older help and separation retroversions. However, results in this study are confounded by inclusion of males & females during puberty. In 3 of 8 studies, nutritional requirements for calcium, zinc, phosphorus and vt E were below recommended levels		
																zinc, phosphorus and vit E were below recommended levels						
15601964 Faith MS	Parent-child feeding strategies of their relationships to child eating and weight status		None Q6 (RF2, RF9) Q13 (RF8, RF9)	Mult Do	n't Up to June ow/NR 2003	Electronic databases that included MEDLINE and PsycINFO Citations for review articles and chapters	Exclusions: Theoretical articles Case studies Studies focusing on child developmental or eating disorders	parenti	marize associations between that the degree state and the degree state a	Parental/ Family/ Caregiver	NR	N/A		N/A	N/A	N/A :	22 NR	Parental feeding style and child energy intake and weight status	Parental feeding restriction, but not other feeding domains, was generally associated with increased child energy intake and weig status. 19 studies (86%) reported at least 1 significant association between parental feeding style and child outcome. Certain associations differed by gender and by outcome researcement. For example, 1 study bound that increased mater feeding restriction was associated with increased eating dishribition in gibb and not boys. Another study found that increased maternal feeding control was associated with overeall in girb but underenting in boys. Serveral large-scale studies reported associations between feeding restriction and child eatin specifically in nother designiter relation.	GB. Certain associations differed by gender, such as maternal it dealing restriction and rate of eating so opposed to table energy intake. O13 Parental feeding restriction, but not other feeding domains, was generally associated with increased child energy intake and loody weight.	NR	
16351702 Slanchette L	Determinants of fruit and vegeta consumption among 6-12-year-children and effective intervention to increase consumption increase consumption	id ns	None Q13 (RF9)	The Multi-Netherlands	1990-Marci	h PubMed PsycINFO References of identified articles	Studies examining potential and extensional potential extensions promoting fruit and/or vegetable intakes or interventions grounding fruit and potential extensions and promoting fruit and promoting fruit and promoting for a summing food altergelenting food altergelenting food altergelenting food altergelenting food adetaged fruit fruit and promoting food adetaged fruit	publications potenti t (34 studies) potenti vegeta interve the cor	w the current literature about of rull and able intakes and effective able that able intakes and effective and able intakes and effective and able intakes and effective and able that and able that and able that and able a	Pediatric Young Adults	Age range: 6-12 yr	15 studies (17 / publications)	NR		School-based Scouts-based Multimedia-based Multimedia-based Multicomponent	Interventions showed increases from 0 to 2.54 daily full and vegetable consumption servings or portions, with 1.6 of the 1.5 interventions resulting in increased consumption of full undired vegetables increases in full infake were more frequent and generally more substantial than increases in vegetable intake substantial than increases in vegetable intake possible of multi-component interventions were all positive (results ranging from +0.2 to +1.68 portions of fruits and vegetablesid). One of 2 single-component interventions had significant changes (16.14 to 40.17 portions) 2.22 soouts-based interventions resulted in consumption increases of 0.4 to 0.8 That I multimotis intervention resulted in an increased consumption of 1.0 servings of fruits and vegetables/d	19 studies (21 NR publications)	Determents of hut and/or vegetable intakes	vegetables were associated with consumption among children highly controlling penering may have a counter protuctive influence on children's diete, sepecially with expectable influence on children's diete, sepecially with expectable influence on children's diete, sepecially with an oleser division of feeding responsibilities between children and adults. The viewing was inversely associated with fruit and vegetable intakes among 11-yr old students of the vegetable vegetab	of 0.4 to 0.8 The 1 multimedia intervention resulted in an increased consumption of 1.0 servings of fluths and vegetablesid 41gbly controlling parenting may have a counter-productive influence on children's diete, sepecially with regard to fruit and vegetable intakes. Other authors insist on a clear division of teading responsibilities between children and adults. TV viewing was inversely associated with fruit and vegetable intakes among 11-year old students.	Differences in study designs, determinants that week, as well as in intervention components between the reviewed studies were too large to conduct a more formal quantitative meta-analysis	
16351702 Blanchette L	Determants of fruit and vegeta consumption among 6-12 year-children and effective intervention to increase consumption	ild																	the first and foremost personal determinant contributing to fruit ar vegetable consumption	c) The Elementary students gaining access to school snack bars, and where top-selling floods are high in fat and calories, consuranced flewer healthy foods, including flutt and vegetables, compared with the previous school vy, when they only had access to fund meals or leved at school, which always included 2 servings of fruits and vegetables.		
16376966 Knai C	Getting children to eat more fruit and vegetables: a systematic review	2006 SR	None Q13 (RF9)	UK Mu	II Settings NR	PUBMED CAB Abstracts The Cochrane Library Web of Knowledge IBSS PsychFO (BIDS) EMBASE AGRICOLA LILACS ID21 ERIC SIGLE INGENTA Clide references Expert information or upublished projects	Children (5-18 yr) Individual and population-based interventions interventions interventions interventions interventions. Programs promoting a diet high in fruits and vegetables where the primary outcome was measured (i.e., change in trut ander vegetable intellulation of the change in trut ander vegetable intellulation in Capital, French, Spanish, Norweglan, French, Spanish, Norweglan, or Swedish Exclusions: Studies not addressing fruit and vegetable intake Studies on non-human subjects Studies with acutely ill or institutionalized patients Follow-up was less than 3 mo Study without a control group	articles) eviden all inter which	et and summarize worldwide noe on current evaluations of en eventions and program promote fruit and vegetable mption in children	Pediatric ² Young Afults	Age range: 5-18 yr	15 RCT-11 CT-4	NR	Behavioral	Diet	and it studies in primary school children had a significant postion effect on future preparation trainer. 7 of these 9 studies showed higher intake at follow-up (4.03 to 4.09 servingsid) and the other 2 studies had a significant positive net effect (4.07 and 4.03) exercises of the control o	N/A N/A	N/A	N/A	OTS 011 studies in primary school children had a significant consider effect of intrivegeable intext. 701 studies showed higher intake at follow-up (40.3 to 4.09 servings(s)) and the other 2 studies had a significant positive net effect (+0.07 and +0.03 servings(s)) and 14 secondary school interventions showed positive results (net effect of +0.22 servings(s)). None of the interventions had a negative effect on fruit/vegetable intake.	Only a mail number of studies from developed countries represented . Some studies may not have been captured by search . Relatively short follow-up periods . Self-reported dietary assessment methods	
16375956 Knai C	Getting children to eat more fruit and vegetables: a systematic review	2006					Studies that were multi-factorial and the effect of diet could not be separated out from other intervention Primary outcome was not measured	3														
16807131 Schack-Neelse	in Breast feeding and future health	2006 SR	None 013 (RF4, RF5, RI RF7, RF8)	F6, Denmark Do Kris	n't Mid 2004- zwiNR late 2005	international Society for Research in Human Milk and Lactation (ISRHML)	Studies on the long-term effects of human milk and loctation	120 Discus effects	ses the long-term health so of breastfeeding	Parental/ Family/ Caregiver	NIR.	N/A	N/A		N/A	N/A	NR NR	Breasfreding and type 2 diabetes, obesity, BP, and cholesterol	Sudies from the second half of 2004 and 2005 were reviewed. Breastfeeding seems to be associated with a small reduction in SBP in later life. Only a few studies on breastfeeding and type 2 diabetes and no convincing association was demonstrated. Large number of studies have shown a small but consistent protective effect of breastfeeding against risk of obesity. Breastfeeding may provide protection against some immune- related diseases, such as type 1 diabetes and inflammatory disease. Breastfeeding seems to be associated with tower BP and serum choisested. Dut it is not clear if breast feeding is associated with reduced risk of CVID or death.	protective effect of breastfeeding against risk of obesity Breastfeeding is associated with lower BP and serum cholesterol, but no clear association with CVD or death Breastfeeding may provide protection against some immune- related diseases, such as type 1 diabetes and inflammatory disease. Breastfeeding seems to be associated with lower BP and serum cholesterol, but it is not clear if towestfeeding is associated with reduced risk of CVD or death.	Residual confounding and reverse causality in observational subcervational subcervational subcervational subcervational subcervational subcervational subcervational subcervational subcervations and subcervation of collected decades after breastfeeding periods. Studies do not provide evidence for dose-response association between duration of breastfeeding and CVD Publication bias Definition of breastfeeding, classification of duration, and inclusion and definition of potential confounders vary between studies, making pooled analysis difficult	
16861362 van der Horst	K A systematic review of environmental comments of ober- related dietary behaviors in yout		None Q5 (RF9)	The Netherlands Mu	January Januar	Human Nutrition databases	Healthy young people ages 3-18 yr (meen age within this range) A measure of newry andor fat Intak (total or %E), fruit, vegetable, snack, (total or %E), returned, total or with the dependent visitable(s) and as a outcome measure(s) assessed for at least 1 complete and extended to a countries that 1 complete market economies a defined by the World Bank Study published in international peer reviewed journals in English Exclusions: Intervention studies Studies that included only overweightlobese children	s s soft dri enviror	ide within environmental insert since the subset of the su	Young Adults	Age: 3-18 yr	N/A	N/A	None	N/A	N/A	58 Cross-sectional study design: 55 Studies in children: 21 Studies in children: 21 Studies in adolescents: 27	energy, fat, fruit, vegetable, snack/fas food and soft drink intake in children	Intake and children's fat, fruit, and vegetable intake, and the relationship between parent and sibling intakes and adolescents' energy and fat intake.	between parental intake and children's faf, fut, and vegetable intake, and the relationship between parent and sibling intakes and adolescents' energy and fat intake. Parental education was inversely associated with allowed children and positively associated with adolescent first and upgetable intake the suggests that for land every electric to upgetable intake the suggests had the fair and vegetable promotion should focus especially on adolescents with parents who have lower levels of education.	Most studies were cross-sectional, making conclusions about direction and possible causality of associations impossible	Good

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	PMID First Author	Title	Year St	tudy CVD	RF by CQ	Study Origin	n Settin	ng Search Range	Data Sources	Study Eligibility Criteria	Number of Studies	Main Study Objective	Target Populal	tion Patient Characteristic	s Interv. Studies (n)	Interv. Study Characteristics	Interv. Type	Specific Intervention	n Examined	Intervention Results/Conclusions	OB Studies ((n) OB Study Characteri	stics Observational Relationship Assessed	Observational Results/Conclusions	Main Reported Findings by Critical Question	Limitations of Studies Reviewed	Quality of SR
16	Malik VS	Intake of sugar-sweetened beverages and weight gain: a systematic review	2006 SR	None	Q6 (RF8, RF9) Q10 (RF8)	USA	Communi (schools)	1966-Ma 2005	y MEDLINE	English language CrS; prospective cohort (study duration ≥ 6 mo), and experimental studies in humans 1 et endpoint evaluating body size or weight measurements (i.e., BMI, BMI; soore, weight). Studies examining the intake of sugar sweetened beverages (tott drinks, soods, flutiales, flut drinks, aproxidations), and consideration of the control of the	r-	Examine whether there is an association between sugar- sweetened beverages and weigh gain	Pediatric/ Young Adults	NR	N/A	N/A	N/A	N/A	N/A		30 Cohort: 10 CrS: 15 Experimental	NR	Sugar-awetenend beverage consumption and obesity/weight gain	association between the consumption of sugar-sweetened beverages and body weight	beverages is associated with weight gain and obesity (10: A school-based intervention found significantly less soft-drink) consumption and prevalence of obese and overweight children in the intervention group than in control subjects. A second RCT in adolescents found higher intake of supar-sweetened beverages to note associated with higher body weight.	several method-related issues, including small sample sizes, short duration of follow-up, lack of repeated measures in dietary exposures and outcomes, and	
17	Jago R	Frut and vegetable evallability, a micro environmental mediating variable?	2007 SR		Q5 (RF9) Q6 (RF2, RF9) Q13 (RF9)	USA	Mult Setti	ings Through Decembe 2005		Assessed aspects of fruit and vegetable availability	NR	Illustrate associations between tood availability and consumptior highlight how increasing availability has been used to availability has been used to availability has been used to the mechanisms by which availability is associated with consumption; and highlight the areas in which further research is required.		NR	7	NR	Behavioral	Interventions to incree consumption or incree or fruit and vegetables	se availability availa	intervention studies attempting to increase billity resulted in increased consumption	24	NR	and consumption Also examined the factors affecting the degree of availability of food,	Availability of fruit and vegetables appears to be associated with increased fruit and vegetable consumption. More research is needed to diucidate the mechanism between availability and consumption. Closes-sectional studies found that the availability of fruit and vegetables was associated with self-reported intake among girls, but not among boys.	dis Studies indicated that the degree of availability of full and segelables and herefore, consumption of full and vegetables, appeared to be influenced by broader accidence and coation (butter, appeared to be influenced by broader accidence). In the coation of the coation		Fair - narrative review only.