Part	PMID First Author	Title	Year Study Typ	rpe CVD	RF by CQ	Country	Setting	Blinding Int Lengtl	Total Study Main Study Objective	Total N Target Population	Eligibility Criteria	Patient Characteristics	Int. n at Baseline (n at Final Follow-up)	Int Type	Specific Intervention	Control n at Baseline (n at Final Follow-up)	Specific Control	Outcomes Measured	Results/CI	Significance S (p<0.05 or non-overlapping CI); S* (p<0.01); S** (p<0.001); NS (p20.05 or overlapping CI)	Safety and Adverse Events Additional findings	Summary	Main Reported Findings by Critical Question
Part	2732065 Nader PR	risk reduction: results from the San	1989 RCT		RF11) Q 10, 11 , 13 (RF4,	USA		Double 1 yr	Evaluate the effectiveness of a family- based cardiovascular disease risk	623 (206 Parental/ families) Family/	Mexican-American (MexAM) & non-Hispanic White families	NR	**	Behavioral	Family intervention sessions designed to decrease the whole family's intake		Control Arm: No education sessions (CON)	Family change score for fat [t value (p)]	Mexican AM: NR AngloAM: 2.39	S** (p<0.001); NS (p≥0.05 or overlapping CI) S NS S	None Ethnicity and SES status were confounded with greater and more	intervention based in neighborhood schools resulted in moderate	intervention based in neighborhood schools resulted in moderate improvements in CV
Part					RF5, RF9, RF11)													Family change in food frequency [t value (p)]	MexicanAM: -2.00	NS S S	in AngloAm families	health knowledge, diet	and BP, greater in AngloAm
A															by 9 mo of monthly or bimonthly				MexicanAM: NR	S NS	families.	greater in AngloAm families than in	Ethnicity and SES status were confounded. There was a
Part															maintenance sessions				MexicanAM: NR AngloAM; -1.92	NS p=.059		Ethnicity and SES status were	American adults.
Part																		Treatment vs CON differences		S*		was a change in LDL-	
																			AngloAm Ad: 0.242; Ch: 0.115	S**; S NS; S*		American adults.	
Part																		24 hr recall total fat(% cal)	AngloAm Ad: -5.6; Ch: No change MexAm Ad:No change; Ch: No change	S**; NS NS; NS			
																		3-day fat (score)	AngloAm Ad: -6.2; Ch:-4.41	S**; S**			
																		3-day salt score	AngloAm Ad: -31.6; Ch: -26.7	S**; S**			
State Stat																		Knowledge score					
Part																		-	MexAm Ad: 0.105; Ch: 0.115				
	2732065 Nader PR	risk reduction: results from the San	1989 RCT															Secondary: LDL-C					
																		SBP [mmHg]	AngloAm Ad: -3.01; Ch: No change				
Part																		DBP [mmHg]	AngloAm Ad: No change; Ch: -2.81	NS; S			
Part																		Physical activity recall		S*; S NS			
## PART PART OF PART O																		Cardiovascular fitness levels - submaximal		NS			
## PROPERTY OF THE PROPERTY OF																		exercise testing					
# 1	3411756 Killen JD	for tenth graders. A multiple-factor	1988 RCT	None	Q 10,13 (RF4, RF8, RF9, RF10, RF11)	USA		None 7 wk	4 mo Study the affect of CVD prevention education on older adolescents	1447 (4 Pediatric/ schools) Young Adults	10th grade	15 vr. 70%	()	Behavioral	20 50-min classroom sessions	()	Control Arm: No prevention educatio	n Primary: Mean change in CV knowledge scores		S** (INT vs CON)	promising but long	intervention in high	intervention in high schools
Part		шин мруговия!										16 yr: 14% Boys:	(2 0010010)		delivered 3 d/wk for 7 wk as part of the			Mean change in BMI [weight/height ²]	INT M: + 0.1 vs CON M:+ 0.4	S (INT vs CON)	Changes in HR	knowledge re: CV risk factors and affected	factors and affected behavior change reflected in smoking
Part												Arm 1: 55.5% Control Arm: 52.5%			activity, nutrition, cigarette smoking,					S* (INT vs CON)	familiarity with	reflected in smoking rates and selected	anthropometric & physiologic
Part															stress, personal problem-solving							anthropometric &	
Part																		[mm] Mean change in SBP [mmHq]	INT F: -0.5 vs CON F: +0.9				
Part																			INT F: -1.8 vs CON F: +/3.0				
Part												American Indian: 0.3%							INT F: - 0.5 vs CON F: -1.9	S*, CON>INT			
Part																				S** (INT vs CON)			
Part												Father completed ≥ 4 yr						regular smoking [%]	INT: +5.6% vs CON: +10.3%	S* (INT vs CON)			
## PROPERTY OF PRO												college. 30 %							INT: 28.5% vs CON: 17.6%	S** (INT vs CON)			
## PROPERTY OF PRO			1000		0.40 (D50)							LUD.	4 4 00 (77)										
Part	8784330 McKenzie J	servings, and contributions of total fat from food groups in 4- to 10-year-old	1996 RCT	None	Q13 (RF9)	USA	Mult settings	None/NR 2 wk	number of servings, and contributions total fat from food groups in children	f Parental/ Family/ Caregiver		NR		Behavioral	Children and caregivers received 1		education (Con)			S for PCAT & RD	None reported Reported elsewhere, these diet changes resulted in a	In a low fat, low sat fat intervention for pre- school children with	Q10. In a low fat, low sat fat intervention for pre-school children with elevated
Part		children enrolled in a nutrition education study							who lowered their dietary fat intake		(LDL-C > 80th percentile and < 98th percentile for age and gender)				dietician and printed materials to take		with normal cholesterol levels were	Mean cholesterol intake/1000kcals	PCAT: 98 to 82; RD: 104 to 92; TCCon: 107 to 102: RD: 101 to 97	S for PCAT & RD	in LDL-C in the	parent/child	autotutorial was as successful as
Part											ş,				National Cholesterol Education			Mean saturated fat intake [%E]	PCAT:10.9 to 10.2; RD: 11.1 to 10.1;	S for PCAT & RD	Lower fat choices	successful as RD counseling in lowering	dietary fat intake with preservation of required
Part																	+ typical eating habits with high TC		PCAT: 1537 to 1478; RD: 1555 to 1512;	S for PCAT & RD	were selected across food groups	preservation of	nutrition.
Part																		Subjects meeting RDA of protein thiamine.	After 3 months, children in every study group had mean intakes of all				
Part															audiotapes about healthy eating			riboflavin, niacin, folacin, calcium, phosphorus.	nutients except vitamin D greater than 67% of the RDA				
															,			Secondary:	Secondary:				
Part																		Meats Eggs	No change				
Part																		Fats/oils	PCAT: - 2; RD: - 1.2; TCCon:-0.7;NICon:+0.5				
March Marc																		Vegetables Fruits Desserts	No change No change PCAT-2 5: RD:-0 1: TCCon: +1 5:NICon:-0 9				
Part																		Beverages	No change				
Part	9280175 Niinikoski H	Intake and indicators of iron and zinc	1997 RCT	None	Q11 (RF9)	Finland	Clinical	None 3 yr 5 mo	3 yr 5 mo Examine whether long-term supervised		7 mo	Boys: 38	40 (NR)	Behavioral	Arm 1: Family counseling (INT)	39 (NR)	Control Arm: General health	Primary:	Primary:	C** C**	None Children on the low	Supervised low	Supervised dietary modification
Part		in saturated fat and cholesterol: the STRIP baby study. Special Turku			Q13 (RF7, RF9)				cholesterol influences intake or serum						received individualized counseling		General health education currently		No diff (48 mos)	NS	had a more favorable lipid	young children do not adversely affect iron or	years targeting the reduction of saturated fat and cholesterol with
Part		Project for Babies													children to known environmental risk		given at rinnish well-baby clinics	Secondary: Mean iron intake [mg (SD)]	Secondary: No difference (13, 24, 36, 48 mo)	NS	profile.	zmc intakes or markers of iron status.	favorable fats yielded continuously lower saturated fat
## PATE															amounts of cholesterol or saturated fat			Transferrin, TFI) Mean zinc intake [mg (SD)]	No difference (13, 24, 36, 48 mo)	NS NS			seen in iron or zinc intakes or
Part	9551002 Perry CL	Changing fruit and vegetable	1998 RCT	None	Q5 (RF9)	USA	Community (schools)	None/NR 7 mo	1 yr Evaluate a randomized school-based	1750 total Pediatric/	4th grade	Males: 203 ??	10 schools (10 schools)	Behavioral	acid composition Arm 1: Behavioral curricula + parental	10 schools (10 schools)	Control Arm: No intervention	Primary	Primary	NS S**	None Parent participation	Intervention students	Q13. A school-based intervention
March Marc		Day Power Plus program in St. Paul,					(acriotis)		vegetable consumption among children	students					service change + industry involvement and support	424 lunch observation 411 24-hr diet recalls		observations [servings (95% CI)]		9**	Sending information and foods home did	and more total F&V than did control	consumption and combined F&\ consumption at lunch, and girls'
And the properties of the control of					≈ 10 (I/I,A)					aire (20 schools)					Two curricula (one in 4th grade, March through May and one in 5th grade,	telephone survey		[serving (95% CI)]		Ĭ.	behavior. There were better results	dietary intake, but not lunch room	Intervention students consumed more fruits and more total F&V
Weter 4-80% Weter										randomly selected		African American: 19.1%			Oct. through January), each included 16 40 to 45-min classroom sessions implemented twice a wk for 8 wk that			observations [serving (95% CI)]		NS	at lunch than the whole day. Girls increased their	observation, showed that non-white students reported	than did control students. Self- reported dietary intake, but not lunch room observation, showed
Set for call register from an experiment increasement of the process of the control form of the control fo										tor diet/ lunch observati					involved skill building, problem solving			[servings (95% CI)]		NS	vegetable intake while boys did not	decreased fat intake compared to white	that non-white students reported decreased fat intake compared
Section Boundary from private mixed by the section of section position for section position of section pos										on 536 for 24-		Received free or reduced-cos	st		consisted of 5 information/activity			CI)]		S	lunchroom		
were gregared by the control fail from humbring decembers (PE Control decembers) (PE Contro										Parent					packets brought home by the student; 5th grade parental involvement consisted of 4 snack packs that			(95% CI)]	INT vs CON: -0.02(-0.43.0.48)	NS			
Food fine letter received in Floridation promotion of Floridation promotion of Floridation and the measurement of Florida															students brought home. Snack packs were prepared by the school food service			Mean total fat from lunchroom observation [%E	Secondary: No significant change	NS			
Hermoning district/menses of FAV; Instruction from terminal from the contraction from terminal from the contraction from the contractio															point-of-purchase promotion of F&V			Mean saturated fat from lunchroom observation	No significant change	NS			
Main flate intake from Lunchroom observation [9] (957, C1) Perry CL Changing fruit and vegetables consumption among children: the 5-a- Day Power Play program in St. Paul. Marmeda Perry CL Changing fruit and vegetables consumption among children: the 5-a- Day Power Play program in St. Paul. Marmeda Perry CL Changing fruit and vegetables consumption among children: the 5-a- Day Power Play program in St. Paul. Marmeda Marmeda MS NS NS NS NS NS NS NS NS NS															enhancing attractiveness of F&V Increasing variety & choice of F&V and providing an additional fruit item			Mean calcium intake from lunchroom observation	No significant change	NS			
consumption among children: the 5-a-bay Power Plus program in St. Paul. Mean total fair from 24-hr recall [%E (65% CI)] Mean adaicum intake from 24-hr recall [%E (65% CI)] Mean for intake from 24-hr recall [g (65% CI)] Mean for intake from 24-hr g (65% CI) Me															whan a baked fruit was served.			Mean fiber intake from lunchroom observation [g	No significant change	NS			
consumption among children: the 5-a-bay Power Plus program in St. Paul. Mean total fair from 24-hr recall [%E (65% CI)] Mean adaicum intake from 24-hr recall [%E (65% CI)] Mean for intake from 24-hr recall [g (65% CI)] Mean for intake from 24-hr g (65% CI) Me																							
Mean total fat from 24-hr recall (19E (69% CI)) Mean calcium intation 24-hr recall (19E (69% CI)) Mean calcium intation 24-hr recall (19E (69% CI)) Mean fiber intation from 24-hr recall (19E (69% CI)) Mean total kcal from 24-hr recall (19E (69% CI)) Mean total kcal from 24-hr recall (19E (69% CI)) Mean total kcal from 24-hr recall (19E (69% CI)) Mos officiant change NS	9551002 Perry CL	Changing fruit and vegetable consumption among children: the 5-a- Day Power Plus program in St. Paul,	1998												for classroom tasting, home snack			CI)		NS			
Mean calcium intake from 24-hr recall [g (95% CI)]		Minnesota																		s NS			
Mean fiber intake from 24-hr recall [9 (5% C1)] Mean total scal from 24-hr recall [9 (5% C1)] No significant change NS																				9			
Mean total ixed from 24-hr recall (85% CI)																		Mean fiber intake from 24-hr recall [g (95% CI)]		Ne			
																				p=0.06			

PMID First Author	Title	Year Study Typ	pe CVD	RF by CQ	Country	Setting	Blinding Int	t Length	Total Study Main Study Objective	Total N Target Population	Eligibility Criteria	Patient Characteristics	Int. n at Baseline (n at Final Follow-up)	Int Type	Specific Intervention	Control n at Baseline (n a Final Follow-up)	at Specific Control	Outcomes Measured	Results/CI	Significance S (p<0.05 or non-overlapping CI); S* (p<0.01); S** (p<0.001); NS (p≥0.05 or overlapping CI)	Safety and Adverse Events	Additional findings	Summary	Main Reported Findings by Critical Question
10401802 Nader PR	Three-year maintenance of improved diet and physical activity: the CATCH	1999 RCT),11 ,13 (RF4, 5, RF8, RF9,	USA	Community (schools)	None 3 yr	6	yr Assess differences through grade 8 in diet, physical activity, and related health	3714 Pediatric/ F Young Adults	Participated in elementary scho CATCH intervention	ol NR	NR (NR)	Behavioral	Arm 1: Cardiovascular health promotion program	NR (NR)	Control Arm: NR	Primary: Mean energy intake [kcal (SEM)]	Primary: INT: 9238(134) vs CON: 9368(176)	NS	None	1	This large multicenter Caschool-based diet and m	10,11,13. This large nulticenter school-based diet
	cohort		RF1	10, RF11)					indicators of students who participated in the Child and Adolescent Trial for			Not reported for the participants in Phase III			Multi-component intervention including		The study design of the CATCH trial is described in detail in other studies		INT: 30.6(0.3) vs CON: 31.6(0.3)	S*		f	or middle school m	nd exercise intervention for hiddle school children resulted
									Cardiovascular Health (CATCH) school and family intervention from grades 3 through 5						classroom curricula, food service modifications, physical education changes, and family reinforcement.			Mean saturated fat intake [%E (SEM)]	INT: 11.3(0.1) vs CON: 11.8(0.2)	s		5	sustained	n sustained improvement in diet nd exercise with significantly ower saturated fat intake and
									allough 3						The study design of the CATCH trial is described in detail in other studies			Mean vigorous activity [min (SEM)]	INT: 30.2 vs CON: 22.1	S*		8	and exercise with	ignificantly more vigorous hysical activity in intervention
																		Secondary: Mean CHO intake [%E (SEM)]	Secondary: INT: 56.6(0.3) vs CON: 55.4(0.4)	NS		8	saturated fat intake s and significantly more e	chools assessed 3 yrs after the nd of the program. There were
																		Mean protein intake [%E (SEM)]	No difference between groups.	NS		4	vigorous physical nactivity in intervention of schools assessed 3	o differences in BMI or holesterol.
																		Mean dietary cholesterol intake [mg (SEM)]	No difference between groups.	NS			rs after the end of the program. There were	
																		Mean sodium intake [mg (SEM)]	INT:3298(53) vs CON: 3456(79)	S*		1	no differences in BMI or cholesterol.	
																		Mean total activity [min (SEM)]	No difference between groups.	NS C**				
																		Vigorous activity [min (SEM)] Mean BMI [kg/m2 (SEM)]	INT: 40.7(1.4) vs CON: 30.6(1.5) No difference between groups.	NS				
																		Health behavior score:						
																		Knowledge Intention	INT: 5.2 vs CON: 4.9 INT: 4.6 vs CON: 4.1	S** S**				
10401802 Nader PR	Three-year maintenance of improved diet and physical activity: the CATCH	1999																Mean heart rate [bpm (SEM)]	INT: 79.6(0.3) vs CON: 78.5(0.3)	S*				
	cohort																	Mean triceps skinfold [mm (SEM)]	No difference between groups for any of these measures.	NS for all measures				
																		Mean subscapular skinfold [mm (SEM)] Mean SBP [mmHg (SEM)]						
																		Mean DBP [mmHg (SEM)]						
																		Mean TC [mg/dL (SEM)]						
																		Mean HDL-C [mg/dL (SEM)]						
																		Mean apo B [g/L (SEM)]						
																		Smoking prevalence [%]						
10709795 Baranowski T	Gimme 5 fruit, juice, and vegetables	2000 RCT	None Q5	(RF9)	USA	Community	None 6 wk	2.	.5 yr Study the theory-based multi-	3,347 (16 Pediatric/ 4	Ith and 5th grade students	African American: 15.3%	NR (NR)	Behavioral	Arm 1: Gimme 5 intervention	NR (NR)	Control Arm: No Gimme 5 curriculun	Primary:	Primary: YR 3:	Time X group interaction:	None reported	Intervention /	A game-based school C	10. A game-based school
	for fun and health: outcome evaluation	n	Q6 ((RF2, RF9)		(schools)			component intervention (Gimme 5), which is designed to impact 4th- and 5th-	Schools) Young adults		Euro-American: 84.7%			12 45- to 55-min sessions of Gimme 5			Mean fruit and vegetable consumption [LSM (SE)]	INT: 2.3(0.1) vs CON: 2.1(0.1)	s		appeared to mitigate in what would have	nutrition education norogram can change c	utrition education program can hange elementary school-aged
			Q13	3 (RF9)					grade children's fruit, juice, and vegetable consumption and related psychosocial variables						curriculum encouraged and assisted students to eat more fruit, juice and vegetables			Mean all vegetable consumption [LSM (SE)]	INT: 1.1(0.1) vs CON: 1.1(0.1)	s*		the F&V	elementary school- aged children's FJV consumption but	hildren's FJV consumption but hanges were small and ersistence is unknown.
									psychosocial variables						vegetables Gimme 5 Daily newsletters taken			Mean fruit and juice consumption [LSM (SE)]	INT: 1.1(0.1) vs CON:1.0(0.1)	NS			changes were small	ersistence is unknown. 15. There was no gender or
						1									home to parents weekly to provide suggestions and recipes for increasing			Mean fruit and vegetable: weekday lunch		1		All changes were greater in girls.	unknown.	acial /ethnic difference in esponse .
						1									fruit, juice and vegetable intake			consumption [LSM (SE)]	INT: 0.9(0.1) vs CON: 0.8(0.1)	p<0.10		Changes were		
						1									3 10- to 14-min "MTV" format videotapes sent to parents at 2-wk intervals			Mean fruit and vegetable: all other times [LSM (SE)]	INT: 1.6(0.1) vd CON: 1.5(0.1)	NS		greater in African Americans.		
															Point-of-purchase education			Self-efficacy: Eating F & V[LSM (SE)]	INT: 41.5(1.0) vs CON: 40.6(1.0)	p<0.10		No evidence of changes at home or		
															conducted each yr at 2 grocery stores per school that parents most			Self-efficacy: eating & shopping[LSM (SE)]	INT: 42.7(0.5) vs CON: 42.4(0.5)	NS		elsewhere.		
															frequented, which presented suggestions for selecting, storing and			Asking behavior [LSM (SE)]	INT: 17.0(0.3) vs CON: 16.0(0.3)	s		Long term impact not known.		
10731460 Reynolds KD	Increasing the fruit and vegetable	2000 DCT	None Q11	(RF9)	LICA	Community	None/NR 1 yr	2	yr Evaluate the effects of a school-based	28 Parental/ 4	Ith grade	Mean age: 8.7 yr	NR (NR)	Behavioral	preparing fruit, juice and vegetables Intervention included: classroom	NR (NR)	Control Arm: No nutritional education	Knowledge [LSM (SE)]	INT: 11.9(0.3) vs 11.0(0.3) Primary:	s	Ness	INT CON	and a land distance	11,13. A school-based dietary
1073 1400 Neyridius ND	consumption of fourth-graders: results from the high 5 project			(RF9)	USA	(schools)	Notienax I yi	2	dietary intervention program to increase fruit and vegetable consumption among	schools Family/	un graue	Males: 50%	NIC (NIC)	Deliaviolai	component taught by curriculum coordinators hired by High 5 project +	INIC (INIC)	Control Arm. No natritional education	Mean fruit intake based on 24-hr recall [servings	B/L 1 YR 2 YRS	NS, S**, S**	Ivone	significantly	ntervention delivered in	ntervention delivered by rogram staff that included
									fourth-graders	amilies)		European-American: 83%			parent componenet (kick-off plus homework) + food service component			(95% CI)]	CON: 0.85(0.72,0.99) 0.83(0.63,1.04) 0.65(0.51,0.82)			folate,beta carotene i and vitamin C.	ncluded parent p nvolvement resulted in s	arent involvement resulted in ignificant increases in children's
												African-American: 16%			(training plus rewards for completing intervention activities)			Mean vegetables intake based on 24-hr recall [servings (95% CI)]	INT: 1.32(1.17,1.48) 1.84(1.61,2.09) 1.60(1.42,1.79) CON: 1.33(1.18,1.49) 1.15(0.95,1.35) 1.25(1.08,1.43)	NS, S**, S*			significant increases in in children's intake of F,	ntake of F, V, and F&V ombined at 1 yr and at 2 yrs /U by 24 hr recall. However,
												Other: 1%			Learning methods in 14-lesson classroom component included			Mean fruit and vegetables intake based on 24-hr recall [servings (95% CI)]	INT: 2.61(2.36,2.86) 3.96(3.51,4.44) 3.20(2.89,3.52) CON: 2.51(2.27,2.77) 2.28(1.92,2.66) 2.21(1.94,2.49)	NS, S**, S**		effective in children	at 1 yr and at 2 yrs F/U th	nese changes were not onfirmed by cafeteria
												Median household income between \$40,000 and \$50,0	00		modeling, self-monitoring, problem- solving, reinforcement, taste testing,			Mean fruit intake based on cafeteria observation	INT: 0.22(0.12,0.33) 0.16(0.09,0.25) 0.09(0.04,0.16)	NS, NS, NS		parents.	lowever, these o	bservation. The intervention lso resulted in significant
												Parent (90% mother) completing questionnaire			and other methods; curriculum included three-day cycle with a High 5			[servings (95% CI)]	CON: 0.18(0.10,0.27) 0.11(0.04,0.19) 0.11(0.05,0.18)				observation. The fa	ecreases in total and saturated at intake.
												Mean parental education : 1 yr	4		Day sandwiched between two 30 to 45 min lessons each week ndelivered 3			Mean vegetables intake based on cafeteria observation [servings (95% CI)]	INT: 0.09(0.03,0.16) 0.11(0.05,0.19) 0.12(0.05,0.21) CON: 0.13(0.07,0.22) 0.14(0.07,0.24) 0.15(0.07,0.25)	NS, NS, NS		r	ntervention also resulted in significant	
															consecutive d/wk Parents encouraged to support			Mean fruit and vegetables intake based on cafeteria observation (servings (95% CI))	INT: 0.42(0.31,0.54) 0.38(0.26,0.52) 0.38(0.125,0.52) CON: 0.41(0.32,0.52) 0.38(0.25,0.52) 0.38(0.25,0.52)	NS, NS, NS			decreases in total and saturated fat intake.	
															behavior change and to complete a homework book				No difference between groups at any observation.	NS, NS, NS				
															Food service component focused on			(95% CI)]						
															guidance on purchasing, preparing, and promoting fruit and vegetables			Mean vegetables intake based on parent FFQ [servings (95% CI)]	No difference between groups at any observation.	NS, NS, NS				
																		Mean fruit and vegetables intake based on parent	No difference between groups at any observation.	NS, NS, NS				
10731460 Reynolds KD	Increasing the fruit and vegetable consumption of fourth-graders: results	2000																FFQ [servings (95% CI)] Secondary: Mean energy intake [calories (95% CI)]	Secondary: No difference between groups at any observation.	NS, NS, NS				
	from the high 5 project																	Mean fat intake [%E (95% CI)]	INT: 34.27(33.29,35.25) 30.93(29.84,32.02) 31.56(30.45,32.66)	NS, S*, S				
																		Mean saturated fat intake [%E (95% CI)]	CON: 34.15(33.15,35.14) 33.37(32.36,34.49) 33.23(32.08,34.37) INT: 12.53(12.13.12.93) 11.07(10.60.11.54) 11.49(11.04.11.94)	NS, S*, S				
																			CON: 12.54(12.13,12.95) 12.00(11.51,12.49) 12.24(11.77,12.71)					
																		Mean CHO intake [%E (95% CI)]	INT: 52.27(51.18,53.36) 55.82(54.49,57.15) 55.18(54.07,56.30) CON: 51.99(50.87,53.10) 53.26(51.89,54.61) 53.17(52.01,54.34)	NS, S*, S				
																		Mean protein intake [%E (95% CI)]	No difference between groups at any observation.	NS, NS, NS				
																		Mean fiber intake [g (95% CI)]	INT: 10.05(9.62,10.50) 11.32(10.66,12.02) 10.68(9.89,11.54) CON: 9.88(9.46,10.33) 9.69(9.10,10.31) 9.23(8.52,10.00)	NS, S*, S				
10830450 Heino T	Sodium intake of 1 to 5-year-old children: the STRIP project. The	2000 RCT	None Q10),11,13 (RF9)	Finland	Clinical	None/NR 4 yr	4	yr Evaluate the impact of individualized and repeated dietary counseling on exposure of the children to known	200 Parental/ 7 Family/	r mo	Males: 100	100 (100)	Behavioral	Arm 1: Individualized dietary counseling	100 (100)	Control Arm: No individualized dietar counseling	y Primary: Mean sodium intake [mg/d (SD)]	Primary: 13 m: INT: 1621(489) vs CON: 1560(563)	NS NO	None		ower fat and sat fat to	10,11,13. A 5 y intervention b lower fat and sat fat intake in
	Special Turku Coronary Risk Factor Intervention Project					1			exposure of the children to known coronary heart disease risk factors during childhood	l lo	Participant of the Special Turku Coronary Risk Factor ntervention Project (STRIP)				Individualized dietary counseling focused on the amount and type of fat				3 y: INT: 1943(485) vs CON: 1899(523) 5 y: INT: 2244(521) vs CON: 2218(543)	NS		2	young children re	afants and young children esulted in no difference in odium intake.
									during crimariood		merveniion rioject (STKIr)				in the children's diet			Secondary: Mean relative sodium intake [mg/4.2 MJ (SD)]	Secondary: No difference between groups at any age.	NS			difference in sodium ntake.	bulum make.
															Counseling was based on previous food habits of the families				* No gender difference in sodium intake at any age.					
															Salt reduction in the children's diet was									
11066462 De	Tailoring dietary feedback to reduce fa	at 2000 RCT	None Q13	3 (RF9)	Belgium	Clinical	None/NR 4 wk	6	wk Investigate the impact of tailored versus	160 (40 Parental/ 2	2-parent families	NR	NR (72)	Behavioral	not included in the counseling before children were aged 5 yr Arm 1: Nutrition education letters	NR (68)	Control Arm: General nutrition	Primary:	Primary: PRE vs POST:		None reported	With further	A family-based tailored (Q13. A family-based tailored
	I intake: an intervention at the family level					1		Ī	standardized nutrition education on fat intake and on psychosocial	amilies) Family/ Caregiver F	amilies with at least 2		20 families (18 families)		Letters were tailored to one's personal		education letters	Questionnaire score[7 point scale from 1(-) to 7(+)]	Awareness re: personal fat intake	S for tailored group, all family members & parents alone vs CON		analysis, only mothers benefitted	eedback approach to fe at intake resulted in	eedback approach to fat intake esulted in stronger awareness
						1			determinants of fat intake on families	a 1	adolescents between ages 12 and 18				fat intake levels, motivation to reduce fat intake, awareness of personal fat intake, and attitudes and self-efficacy		All family members received identical nutrition education letters which were not personally tailored	Secondary:	Attitude re:eating fat over time : More (+) attitude with tailored INT.	S*,all family members		intervention	personal fat intake and d	f personal fat intake and to ecreased fat & sat fat intake of amily members with highest
						1									expectations related to fat reduction		personally tallored	Mean total fat [%E]	Secondary: All family members: Tailored: 40.2 to 38.2 vs CON: 38.0 to 37.8	s		f	o decreased fat & sat fa at intake of family in members with highest	npact on mothers.
						1												Mean saturated fat [%E]	Tailored:15.3 to 13.9 vs CON:13.89 to 13.8	s			mpact on mothers.	
						1												Mean MUFA [%E]	Tailored:14.7 to 13.9 vs CON: 13.8 to 13.4	NS				
						1												Mean PUFA [%E]	Tailored:7.5 to 7.3 vs CON: 7.6 to 7.5	NS				
						1																		
11135795 Dixon LB	Diet quality of young children who	2000 RCT	None Q10) (RF5)	USA	Mult settings	None/NR 3 mo	3		303 (227 Parental/ 4	I-10 yr	Hypercholesterolemic: 198	Int Arm 1: 71 (71)	Behavioral	Arm 1: Parent-child auto tutorial	Con Arm 1 High LDL:	Control Arm 1: No nutrition education	Primary	Primary:		No adverse	Children who	Children who received IN	lutrition education (from a
	received nutrition education promoting lower dietary fat	9		3 (RF9)				ľ	education promoting lower dietary fat on the overall diet quality in children using	vith high Family/ .DL and Caregiver E	Elevated LDL-C between 80th		Int Arm 2: 77 (77)		program (PCAT) vs standard counselling by registered dietitian (RD)	79 (79)	+ typical eating habits (TCCon)	DQI score	PCAT: -0.6(0.2); RD:-0.4 (0.2) TCCon:+0.3(0.2);Con:-0.1(0.2)	PCAT vs TCCon: S* RD vs TCCon: S	events	received nutrition counseling did not (nutrition education "t from a dietitian or a	alking book" or a dietitian esulted in improved dietary
						1			a multidimensional index that measures nutrient and food intakes in relation to	6 nl LDL a	and 98th percentiles				Children in tutorial program received a	Con Arm 2: Normal LDL: 76 (76))	Control arm 2: age- and gender-	Secondary	Secondary:			improve their intake It of fruit & veg,	nome-based "talking q book") improved their m	uality (i.e. greater percentage net recommended intakes for
						1			US dietary recommendations						home based self-instruction program comprised of 10 'talking book' lessons about healthy eating patterns for		matched children with non-elevated TC served as a reference group (Con)	Reduced total fat intake to: ≤ 30%E [% of children]	PCAT: 60.6% to 67.6% RD: 53.2% to 63.6% TCCon: 46.8* to 45.6%	S for all grps comparing % who met recommendation at 3m vs those who did not meet recommendation		carbohydrates or	children with a greater a	otal fat, saturated fat, protein nd sodium. There was no ffect on percentage meeting
															children with an accompanying audiotape, picture booklet, paper and				Con: 48.7% to 56.6%			1	ecommended intakes re for total fat, sat fat, a	ecommended intakes for fruits nd vegetables, complex
															pencil, activities workbook and parent manual			Reduced SFA intake to: < 10%E [% of children]	PCAT: 39.4% to 45.1% RD: 33.8% to 45.4%	S for all grps comparing % who met recommendation at 3m vs those who did not			orotein and sodium. c There was no effect	arbohydrates or calcium.
						1									Dietary goal was to meet the National				TCCon: 29.1% to 25.3% Con: 30.3% to 31.6%	meet recommendation			on percentage meeting recommended intakes for fruits and	
						1									Cholesterol Education Program step 1 dietary guidelines (≤ 30% calories from fat, < 10% calories from saturated fat,			Reduced cholesterol to: < 300 mg/d [% of children]	No change in any group.	NS			or fruits and regetables, complex carbohydrates or	
						1									< 300 mg cholesterol/d)			Eat ≥ 5 servings/d of vegetables and fruits [% of	No change in any group	NS			calcium.	
						1												children]						
						1																		
	1				1				1				_ i				1	1	1					

PMID First Author	Title	Year Study Type	e CVD	RF by CQ	Country	Setting	Blinding Ir	nt Length To	otal Study Duration Main Study Objective	Total N Target Population	Eligibility Criteria	Patient Characteristics	Int. n at Baseline (n at Final Follow-up)	Int Type	Specific Intervention	Control n at Baseline (n at Final Follow-up)	Specific Control	Outcomes Measured	Results/CI	Significance S (p<0.05 or non-overlapping CI); S* (p<0.01); S** (p<0.001); NS (p=0.05 or overlapping CI)	Safety and Adverse Events Additional findings	Summary	Main Reported Findings by Critical Question
11135795 Dixon LB	Diet quality of young children who received nutrition education promoting	2000						-	Dulation	Population			ritai rotow-up)		Arm 2: Nutrition counseling program	rinai rosow-up)		Increased intake of starches and other complex CHO by eating:		S** (p<0.001); NS (p≥0.05 or overlapping CI)	Auverse Evenis		Question
	lower dietary fat														Children receive 1 hr of face-to-face nutrition counseling from a registered dietitian who provided materials that			≥ 6 servings/d of breads, cereal and legumes [% of children]	No change in any group	NS			
															complied with National Cholesterol Education Program			Maintained protein intake at: ≤ 200% recommended daily allowance [% of children]	Higher among nut counseling vs. cont	s			
															Dietary goal was to meet the National Cholesterol Education Program step 1 dietary guidelines (≤ 30% calories from			Limited total daily intake of sodium to: ≤ 2400 mg [% of children]	Higher among nut counseling vs. cont	s			
															fat, < 10% calories from saturated fat, < 300 mg cholesterol/d)			Maintain calcium intake at: ≥ 100% of dietary reference intake [% of children]		NIC .			
																		2 100% of dietary reference intake (% of children)	No change in any group	NS			
11135795 Dixon LB	Diet quality of young children who received nutrition education promoting	2000																OR of meeting total fat recommendation (95% CI)	No difference between groups	NS			
	lower dietary fat																	OR of meeting saturated fat recommendation (959		9			
																		OR of meeting cholesterol recommendation (95%					
																		OR of meeting vegetables and fruits					
																		recommendation (95% CI) OR of meeting complex CHO recommendation (95% CI)	No difference between groups	NS .			
																		(95% CI) OR of meeting protein recommendation (95% CI)	PCAT 0.84 (0.30, 2.28)	S			
																		OR of meeting sodium recommendation (95% CI)		S			
																		OR of meeting calcium recommendation (95% CI)		S			
																			PCAT 2.06 (0.98, 4.39)	S			
																			PCAT 0.94 (0.44, 2.00)	s			
11360130 Rasanen M	Nutrition knowledge and food intake of seven-year-old children in an	2001 RCT	None	Q13 (RF9)	Finland	Clinical	None/NR 6 yr 3 r	mo 6 yı	r 3 mo Compare nutrition knowledge and food intake in 7 yr old intervention and	140 Parental/ Pa Family/ Co	rticipant of the Special Turku pronary Risk Factor	7 mo	70 (70)	Behavioral	Arm 1: Nutritional counseling(INT)	70 (70)	Control Arm: Basic health education	Primary: Mean proportion of food intake score(SD):	Primary:		None None		Q10,11,13. A 6 year intervention to decrease sat fat intake using
	atherosclerosis prevention project with onset in infancy: the impact of child-								control children in an atherosclerosis risk factor intervention trial after 6.5 yr of	Caregiver Into	ervention Project (STRIP)	Boys: 74			Counseling aimed at reduction of child's saturated fat and cholesterol		clinics (CON)	"Low fat" score: "Low salt" score:	INT: 72% vs CON: 59% INT: 60% vs CON: 62%	S** NS		from infancy and decrease sodium	repeated parental nutritional counseling resulted in lower
	targeted nutrition counseling given to the parents								nutrition counseling given to the parents						intake, first at child's ages of 8, 13 and 18 mo and then at 6 mo intervals		Cow's milk with at least 1.5% fat was suggested for use	Total score	INT: 50% vs CON: 38% INT: 62% vs CON: 50%	S**		using repeated parental nutritional	saturated fat intake but no change in sodium intake. Intervention children had better
															Optimal diet of the child was defined to contain energy ad libitum, protein 10 - 15%E, CHO 50 - 60 %E, and fat 35 -				Secondary: No difference between groups	NS		lower saturated fat intake but no	knowledge of a heart healthy diet.
															45 %E before the age of 2 yr, and the 30 %E thereafter			Mean fat intake [%E (SD)] Mean saturated intake [%E (SD)]	No difference between groups INT:11.1 +/- 2 vs CON: 13.3 +/- 3.1	NS S**		difference in sodium intake. Intervention children had better	
																		Mean MUFA intake [%E (SD)]	No difference between groups	NS		knowledge of a heart healthy diet.	
																		Mean PUFA intake [%E (SD)] Mean sodium intake [mg (SD)]	No difference between groups No difference between groups but girls had significantly lower intake that	NS			
11547219 Turnin MC	Substitute of minutes and a	2004 DCT	None	O42 (DE0)	Former	C	None/NR 5 wk	5 w	vk Evaluate microcomputer nutritional	1 070 (40 Dediction)	-12	M 0	NR (1.003)	Behavioral	A	NR (873)	Control Arm: Conventional nutritional	Releases	to uniterace between groups but gins had significantly lower make the boys.	3 , 1 ~ m	New control Community	A	04042 4
11547219 Tumin MC	Evaluation of microcomputer nutritional teaching games in 1,876 children at school	2001 RCI	None	Q13 (RF9)	France	Community (schools)	None/NR 5 wk	5 W	teaching games and their contribution to the children's acquisition of nutritional	schools) Young adults	st 3 grades in primary school	Mean age: 9 yr Boys: 47.5%	NR (1,003)	Benavioral	Arm 1: Computer games + conventional nutritional teaching (Games)	NR (873)	teaching (CON)	Primary: Childs nutritional knowledge	Games: 48.8 (0.4) vs CON: 46.1(0.4)	s**	None reported Games group did better with fiber, les nibbling & snacks,	as based intervention was associated with better	intervention was associated with better nutritional knowledge and
									knowledge and improvement of eating habits			3rd grade primary (7-8 yr): 30.9%			2 hr/wk		2 hr/wk	Secondary: Mean calorie intake [kcal (SE)]	Secondary: Games: 1896(13) vs CON: 1899(14)	NS	eating F&V every day	choices than a	better nutritional knowledge and better food choices than a conventional curriculum.
												4th grade primary (9-10 yr): 35.8%						Mean CHO intake [%E (SE)] Mean fat intake [%E (SE)]	Games: 46.4(0.2) vs CON: 45.7 (0.2) Games: 37.1 (0.1) vs CON: 37.6 (0.2)	s		conventional curriculum.	A game approach is suitable for teaching children better eating behaviors
												5th grade primary (11-12yr): 33.3%						Mean protein intake [%E (SE)]	Games: 16.5 (0.1%) vs CON: 16.7 (0.1%)	s			
												Overweight (BMI > 90th percentile): 23.7%						Mean saccharose (nutriment cals/total cals) Mean calcium intake [mg (SE)]	Games: 11.5(0.1) vs CON: 12.2(0.2) Games: 771(9) vs CON: 731(9)	S**			
												Obese (BMI > 97th percentile):						* Games group also had better nutritional content at meals & snacks.				
11885548 Svahn JC	Different quantities and quality of fat in	2002 RCT	None	Q13 (RF9)	Sweden	Clinical	Double 3 mo	3 m	no Investigate differences in fatty acid	54 Pediatric/ 11	mo, term, AGA	NR	Arm 1: NR (8)	Dietary	All children: no other milk or dairy	N/A	N/A	Primary:	Primary:		No major Low fat milk does	One year old infants	Q13. Replacement of milk fat
	milk products given to young children: effects on long chain polyunsaturated fatty acids and trans fatty acids in								content of plasma lipid fractions and serum lipid concentrations among young children	Young adults No	history of feeding or growth		Arm 2: NR (9)	Supplements	products except provided milk.Arm 1: Low-fat milk diet			Plasma cholesterol ester fatty acids [mg/L] Phospholipid fatty acids [mg/L]	LF > PVF No difference between groups	s* Ns	problems. plasma levels of LC	c- milk fat replaced by	with vegetable fat results in higher plasma LA and ALA, but does not affect plasma long
	plasma								,		clusions:		Arm 3: NR (9) Arm 4: NR (11)		Arm 1. Low-fat cow's milk (1.0 g/dL or fat) (LF)			Plasma TG fatty acids [mg/L]	No difference between groups	NS	DHA were not	higher intakes of LA and ALA, resulting in	chain PUFAs.
											lk intolerance		74.114.114.(11)		Arm 2: Standard-fat cow's milk (3.5 g/dL) (SF)			Plasma linoleic acid	FVF > LF & SF	s*	studied.	s higher plasma LA and ALA, without any effects on plasma long-	
											vere disease rent or investigator choice							Plasma alpha-linolenic acid Plasma arachidonic acid	PVF > SF & LF No difference between groups	NS		chain PUFAs.	
															Arm 3: Partial vegetable-fat milk diet (3.5 g/dL fat; 50% vegetable from rapeseed oil and 50% cow's milk fat)			Plasma docosahexaenoic acid	No difference between groups	NS			
															(PVF) Arm 4: Full vegetable-fat milk diet (3.5				PVF & FVF <sf FVF > SF & PVF</sf 	s s			
															g/dL fat; 100%vegetable fat from palm coconut and soybean oil) (FVF)			Secondary:	Secondary: PVF & FVF>LF and SF	S**. S**			
																			SF>LF,PVF & FVF	s*			
																			SF,PVF & FVF >LF; PVF > SF; FVF> PVF	S**, S**, S*			
																		Mean dietary linolenic acid intake [g/d]	PVF,FVF > LF & SF	S**, S**			
12127382 McMurray RG	A school-based intervention can	2002 RCT	None	Q10,13 (RF4, RF11)) USA	Community	None/NR 8 wk	8 w	vk Determine the effect of increasing the	1140 (5 Pediatric/Youn Ru	ral middle schools	Mean age (SD): 12 yr (1)	893 (893)	Behavioral	Arm 1: Exercise only (EX)	247 (247)	Control Arm: Normal health	Primary:	Primary:		None None	An 8 wk school-based	Q10,13. An 8 wk school-based
	reduce body fat and blood pressure in young adolescents			. ,		(schools)			aerobic component of the school's physical activity program and improving the knowledge about weight control and	schools) g Adults par Ca	rticipating in the ardiovascular Health in hildren and Youth Study (CHIC	Males: 510			30 min of aerobic exercise 3 d/wk		curriculum + regular physical education class (CON)		Primary: EX: -2.8+/- 0.5 ED: -1.1 +/-0.6 EX + ED: -2.0 +/- 0.6	S**,each grp vs CON		program to increase aerobic activity was associated with	program to increase aerobic activity was associated with decreased SBP & DBP in
									blood pressure on the blood pressure and body fat of early adolescents	II)	eographically separated	White: 64% African-American: 24.4%			Arm 2: Education only (ED) 2 class periods/wk providing		Health curriculum did not emphasize CVD risk factors, and physical education class focused on skill	Mean DBP [mmHg (SE)]	CON: +1.8 +/- 0.6 EX: -4.8+/-0.6	S**, EX only vs CON & ED only		decreased SBP & DBP in intervention groups	intervention groups and increased SBP & DBP in controls despite no significant
										sch	hools thools with a good proportion o	Other race/ethnicity: 11.6%			information on nutrition, smoking, and exercise		development rather than aerobic exercise		ED: 0.1 +/- 0.6 EX + ED: -0.5+/-0.6 CON: +1.4 +/- 0.7	,		DBP in controls despite no significant	improvement in aerobic power in EX alone group. Control group increased SSF but there was no
										Afr	rican-American students	Parental education: < High school: 17.4% Some college: 49.4%			Arm 3: Exercise + education (EX + ED)			Secondary: Mean aerobic power [mL/kg/min (SE)]	Secondary: EX: -0.5 +/- 0.3	S**. ED + EX combined vs ED alone		aerobic power in EX	significant change in SSFs in ED, EX or EX + ED groups.
												College graduates: 33.2%			30 min of aerobic exercise 3 d/wk				ED: -1.1 +/- 0.4 EX + ED: +0.8 +/- 0.4	5 , ED + EX Combined VS ED alone		but there was no significant change in	
												Annual family income: < \$30,000: 29.2% \$30,000-\$50,000: 23.6%			2 class periods/wk providing information on nutrition, smoking, and exercise			Mean weight [kg (SE)]	CON: -0.3+/-0.4 No significant change.	NS		SSFs in ED, EX or EX + ED groups.	
												≥ \$50,000: 28.7%						Mean BMI [kg/m² (SE)]	No significant change.	NS			
																			EX: +1.4 +/- 0.3 ED: +1.9 +/- 0.4 EX + ED: + 0.9 +/- 0.3	S**, each grp vs CON			
																			CON: + 3.7 +/- 0.4				
	1		1		1							1											

PMID First Autho	Title	Year Study Type CVD	RF by CQ	Country Set	ting Blinding	Int Length	Total Study Duration	Main Study Objective To	al N Target Population	Eligibility Criteria	Patient Characteristics	Int. n at Baseline (n at Final Follow-up)	Int Type	Specific Intervention	Control n at Baseline (n Final Follow-up)	at Specific Control	Outcomes Measured	Results/CI	Significance S (p<0.05 or non-overlapping CI); S* (p<0.01); S**(p<0.001); NS (p20.05 or overlapping CI)	y and Additional findings Summary Main Reported Findings by Critical Question
12137237 Birnbaum AS	Are differences in exposure to a multicomponent school-based intervention associated with varying dietary outcomes in adolescents?	2002 RCT None	Q13 (RF9)	USA Commun (schools)		2 yr	var bas Eat	sport autocomes associated with ying levels of sposure to a school sed nutrition intervention. Teens thing for Energy and Nutrition at hoot (TEENS)	(16 Pediatric olis) Young adults	School with at least 20% of students approved for the free students approved for the free and reduced-price lunch progris	Mades: Am 1: 426 (50.4%) Im Am 2: 436 (50.7%) Am 3: 105 (46.7%) Control Am: 900 (51.5%) Control Am: 900 (51.5%) Affician American: 10.4% Affician American: 10.4% Affician American: 6.5% Am 2: 10.5% Am 2: 10.5% Affician American: 6.5% Affician Am: 6.5% Affician Am: 6.5% Am 2: 244 Am 3: 5.5% Am 2: 244 Am 3: 3.1 Control Am: 6.59	Arm 1: 845 (NR) B Arm 2: 677 (NR) Arm 3: 226 (NR)	rehavioral	Arm 1. School environment (ENV only) School environment focused on promoting fluts and vegetables as inpart of the school and one promoting fluts and vegetables as inpart of the school and one promoting fluts and the school as healthy snacks available in school as a cate lines and vending machine and careful flut of the school as cate lines and vending machine Arm 2. School environment + disastroom curroulum (ENV > CUT) to curriculum sessions involving futul, vegetable, and fat-related self-unit of the school and school an	1755 (NR)	Control Arm. No school environment + no classroom curriculum + no peer (CON)	Primary: Mean fruits and vegetables intake [servingsid (SDI)] Mean fruit intake [servingsid] Mean vegetables intake [servingsid] Mean vegetables intake [servingsid] Secondary: Mean usual food choices [score]	Primary: PFERR 4.89-#.0.66 to 5.80+/-0.05 ENV + Curr 4.51 +/-0.04 to 4.35+/-0.04 ENV only: 4.78+/-0.03 to 4.44+/-0.04 CON: 4.78+/-0.03 to 4.44+/-0.04 CON: 4.78+/-0.03 to 4.44+/-0.03 Time X Exp: F=5.05, df=3,14 p= 0.14 Time X Exp: F=5.05, df=3,14 p= 0.14 Time X Exp: F=1.03, df=3,14, p=1.07 *Within groups, pattern of response similar to that for F + V: best slope for PEER next best for ENV + Curr, then ENV only & no change for CON. Secondary: Time X Exp: F=5.51, df=3,14 PEER: 5.90+/-0.11 to 5.54+/-0.15 ENV + Curr 5.88+/-0.12 to 6.32+/-0.12 ENV only: 5.60+/-0.12 to 5.86+/-0.12 CON: 5.61+/-0.10 to 5.68+/-0.12	S (p=056) NS	place to the commentary differences in a middle should be seen the commentary differences in a middle school, and should be seen as the commentary differences in a middle school. School environment changes alone are inadequate to an improve diet. It nome to anyone delicit home changes are needed as well. School environment plus home changes changes are needed as well. School environment plus home changes changes are needed as well. School environment plus home changes changes are needed as well.
12137237 Birnbaum AS	Are differences in exposure to a multicomponent school-based instrument school-based intervention associated with varying dietary outcomes in adolescents?	2002									Highest education Stoth parents is high school: Arm 1:137 in Arm 2:91 in Arm 3:26 in 1:99 in Arm 3:26 in Arm 1:44 in Arm 3:48 in 7:27 in Arm 3:48 in 7:27 in Arm 3:48 in Arm 2:109 in Arm 3:48			Am 3 Pere lauders - classroom curriculum - school environment (PEER) Peer lauders helped teachers deliver the classroom curriculum by leading small-group activities and discussions						
12554024 Baranowski T	Squire's Quest! Dietary outcome evaluation of a multimedia game	2003 RCT None	Q13 (RF9)	USA Commun (schools)	,	5 wk	mu anc chil	amine if use of a psychoeducational 157 illimedia game riceases fruit, just code of the co	ols) Young adults		Age range: 8-12 yr Boys: 736 African American: 268 Euro-American: 690 Hispanic: 476 Other ethnicity: 105		Behavioral	Am 1: Multimedia game Squires Questl, an interactive multimedia game, is comprised of 10 25-min sessions Before the end of each session, Before the end of each session, Before the end of each session, the session set another fluit, juice, or state session, est another fluit, juice, or small, or to ask for his/her favorite frait, juice or vegetable to be more available at home	793 (740)	Control Arm: No game	Primary: NT vs CON: Mean rulu ritake [servings (SD)] Mean pulce intake [servings (SD)] Mean regular vegetable intake [servings (SD)] Secondary: Mean ritake t vegetable intake [servings (SD)] Mean total fruit, juice, and vegetable intake [servings (SD)] Mean total fruit, juice, and vegetable intake [servings (SD)] Mean total fruit, juice and high-fat vegetable intake [servings (SD)]	Primary: NT vs CON: Increased 0.25 zenvid (8/9 wk) No diff (8/9 wk) Increased 0.24 servid (8/9 wks) Secondary: No change Increased 0.9 servid (8/9 wk) Increased 1.0 servid (8/9 wk)	S" NR NR NR S S S S S S S S S S S S S S S	Intervention did not perchaeducational reach poal of serv of pick perchaeducational production of pick perchaeducations and production of pick perchaeducations and production of pick perchaeducations and greater increase among pick perchaeducations and production of pick perchaeducations and
14594792 Caballero B	Pathways: a school-based, randomized controlled trial for the prevention of obesity in American Indian achoolchildren		Q10.13 (RF8, RF9, RF11)	USA Commun (schools)		3 yr	bas red	aluate the effectiveness of a school- sed, multicomponent intervention for such a school of the school of the school of the school of the school of the lan school of the school of the school of the school of the	4 (41 Parental/ ols) Family/ Caregiver	Zind-58 grade American Indian School selection based on: 2 90% of 3rd grade children of American Indian ethnicity	Mean age (SD): 7.6 yr (0.6)	(727) B	Jehavioral	Am 1: Classroom curiculum + food service + physical deucation + family involvement (NT) Classroom curriculum included 2 45-min lessons-wik for 12 wk during 3rd and 4th grades, decreased to 8 wk during 5th grade Food service component included natinet guidelines and practical tools for reducing fat content of school meals Thypical advanction included 3 3 30-min sessional-wid of M/PPA and content of school meals Families were given take-home materials and attended 9 family events at schools	825 (682)	Control Arm: NR (CON)	Primary: Secondary: Mean BMI (Rpm* (95% C1)) Mean Start (Rpm* (95% C1)) Mean throeps skinfold thickness [mm (95% C1)] Mean subscapular skinfold thickness [mm (95% C1)] Mean energy intake from 24-h dietary recall [%call (95% C1)] Mean fat intake from 24-h dietary recall [%call (95% C1)] Mean fat intake from 24-h dietary recall [%call (95% C1)] Mean fat intake from school-lunch observation [% (95% C1)] Mean fat intake from school-lunch observation [% (95% C1)] Mean fat intake from school-lunch observation [% (95% C1)] Mean fat intake from school-lunch observation [% (95% C1)] Mean start intake from school-lunch observation [% (95% C1)] Mean start intake from school-lunch observation [% (95% C1)] Mean start intake from school-lunch observation [% (95% C1)] Mean start intake from school-lunch observation [% (95% C1)] Mean start intake from school-lunch observation [% (95% C1)]	Difference:-265 (C: -437, -494) MN 3-11 vs CON: 3.3 6 Difference: -2.5 (-3.9, -1.1) No difference between groups 28.2 vs CON: 3.2.4 Difference:-4.2 (Cl:-7.1,-1.3) Higher knowledge & better intention in INT group.	NS None NS NS S* S* S* S* S* NS S* NS NS S* NS NS S* S* S* S* S* S* S* S* NS NS NS NS	A school-based intervention targeting field and distance and exercise did defended the secondary of the seco
14636809 Himes JH	Impact of the Pathways intervention or dietary intakes of American Indian schoolchildren	2003 RCT None	Q10. (RF9)	USA Commun (schools)	None/NR	3 yr	inte	sport the impact of the Pathweys exherition of delt. using data from exherition of delt. using data from exherition of children eating nool lunch and 24-hr dietary recalls	4.1 Pediatric Voung Adults	3rd grade students	NR	NR (301) 6	vehavi oral	Am 1 School curriculum - shypical activity decidation is school food service + family component School curriculum - school food service + family component School curriculum and servicy component emphasized healthy eating and low-fat food attentives service the school curriculum and service from the service of the service food service instruction of the service of the service food service in school meals of the service food service in school meals		Control Aim: Normal instruction and activities provided by local school districts	Mean change in total fat intake from school lunch observation [%E (SE)] Mean change in saturated fat intake from school lunch observation [%E (SE)] Mean change in CHO intake from school lunch observation [%E (SE)]	-2.1% +/-0.7 +3.7% +/-1.7 No significant difference for intervention effect for any of these school lunch parameters.	s s· s	gliefences in BMI intervention for native hereinto for rative here

PMID First Author	Title	Year Study Type	e CVD	RF by CQ	Country	Setting	Blinding	Int Length	Total Study Duration Main Stud	dy Objective	Total N Target Population	Eligibility Criteria	Patient Characteristics	Int. n at Baseline (n at Final Follow-up)	Int Type	Specific Intervention	Control n at Baseline (n a Final Follow-up)	tt Specific Control	Outcomes Measured	Results/CI	Significance S (p<0.05 or non-overlapping CI); S* (p<0.01); S** (p<0.001); NS (p≥0.05 or overlapping CI)	Safety and Adverse Events Additional findings	Summary	Main Reported Findings by Critical Question
14636809 Himes JH	Impact of the Pathways intervention or dietary intakes of American Indian schoolchildren	2003																	24 HR DIET RECALL: Adjusted mean energy intake from 24-hr recall [kcal (SE)]	INT: 1887+/-88 vs CON: 2150+/-88	s			
	Schoolchilden																		Adjusted mean protein intake from 24-hr recall [g	INT: 67.8+/-2.4 vs CON: 77.3+/-2.4	s			
																			(SE)] Adjusted mean total fat intake from 24-hr recall [g	INT: 67.3+/-3.7 vs CON: 82.4+/- 3.6	S**			
																			(SE)] Adjusted mean saturated fat intake from 24-hr	INT: 24.9 +/- 1.5 vs CON: 30.9 +/- 1.5	S**			
																			recall [g (SE)]					
																			Adjusted mean PUFA intake from 24-hr recall [g (SE)]		5			
																			% calories from total fat intake from 24-hr recall [%E (SE)]	INT:31.1+/- 0.6 vs CON:33.5 +/- 0.6	S**			
																			% calories from saturated fat from 24-hr recall [% (SE)]	E INT: 11.6 +?- 0.4 vs CON: 12.8 +/- 0.4	S**			
																			% calories from CHO from 24-hr recall [%E (SE)]	INT: 55.6+/- 0.8 vs CON: 53.1 +/- 0.8	s			
																			CHO intake from 24-hr recall [g (SE)] Adjusted mean dietary fiber from 24-hr recall [g	No difference between groups.	NS			
																			(SE)]	No difference between groups	NS			
14706957 Talvia S	A randomized intervention since infancy to reduce intake of saturated	2004 RCT	None	Q6 (RF2, RF9)	Finland	Clinical	None/NR	9 yr 5 mo	9 yr 5 mo Evaluate the longitu	udinal impact of on children's nutrient	1,062 Parental/ 5 Family/	mo Need to review original p	a 1860 ys: 392	540 (289) 481 usable	Behavioral	Arm 1: Dietary counseling to reduce dietary saturated fat.(INT)	522 (268)	Control Arm: No atherosclerosis- focused dietary counseling (CON)	Primary: INT vs CON: Mean total fat intake [%E (SD)]	Primary: INT vs CON: Decreased (10 yr)	e++	No differences Vitamin D in vitamin & intake below	Individual	Q10,13. Individual dietary counseling begun in infancy
	fat: calorie (energy) and nutrient intakes up to the age of 10 years in the			Q11 (RF9)					intake	on children's nathent	Caregiver			401 usable		Counseling aimed at acheiving prote	in	Cow's milk with ≥ 1.5% fat was	Mean SFA intake [%E (SD)]	Decreased (4,7,10 yr)	s**	mineral intake recommend levels for	dietary counseling begun in	favorably influences children's fat & sat fat intake without any
	Special Turku Coronary Risk Factor Intervention Project			Q13 (RF9)												intake of 10-15%E, CHO intake of 50 60%E; fat intake restricted to 30-35% between age 1-2 yr, and 30%E after	ε	recommended after age 12 mo Families attended general counseli	Mean PUFA intake [%E (SD)]	Increased (4,7,10 yr)	S**	boys & girls, but increased in Int vs	infancy favorably influences	adverse effects on intake of nutrients. Target in total fat easily reached but 2:1 ratio of PUFA to
																age 2 yr with a 2:1 ratio of unsaturate to saturated fat	ed	sessions biannually until the child reached age 7 yr, attending 1 sessi	Mean MUFA intake [%E (SD)]	Decreased for girls (4, 10 yr); Increased for girls (7 yr) Increased for boys(4,7,10 yr)	S NS	increased in Int vs Con.	intake without	sat fat not achieved @10 yrs. Counseling during wellness visits
																Family counseling by a nutritionist at 3 mo intervals until age 2 yr, followed	1-	per yr thereafter	Secondary: Mean caloric intake [calories/d (SD)]	Secondary: Int>Con, boys; No diff, girls	S* boys; NS girls		any adverse effects on intake of	improves the intake of PUFA without harming nutrient or mineral intake.
																by biannual counseling sessions thereafter			Mean protein intake [%E (SD)]	Increased (4,7,10 yr)	S** boys, S* girls		nutrients. Target in total fat easily	
																Children and parents were given separate individualized counseling			Mean CHO intake [%E (SD)]	Increased (4, 10 yr)	S**		reached but 2:1 ratio of	
																sessions after age 7 yr			Mean calcium intake [mg (SD)] Mean zinc intake [mg (SD)]	Increased (4, 7,10 yr) Increased (4,7,10 yr)	NS NS		PUFA to sat fat not achieved @	
																			Mean vitamin D intake [µg (SD)]	Increased (4,7,10 yr)	S**		10 yrs	
																			Mean iron intake [mg (SD)]	Increased (4,7, 10 yr)	NS			
15090126 Lytle LA	School-based approaches to affect adolescents' diets: results from the	2004 RCT	None	Q13 (RF9)	USA	Community	None/NR	2 yr	2 yr Report on the outco	omes of the Teens	16 Parental/ 7	th grade	Males: 223 (49.0 %)	NR (1,452)	Behavioral	Arm 1: Counseling + policy change	NR (1,431)	Control Arm: No intervention (CON)	Primary Mean energy from fat based on 24-hr recall	Primary: INT:30.92 vs CON: 30.28	NC NC	None Actual delivery of	A school-based	Q 10,11.A school-based
	adolescents' diets: results from the TEENS study					(schools)			Eating for Energy at School (TEENS) stu intervention study o	udy, a 2-yr conducted in 16	d	20% of students in school istrict qualify for free or reduced	White: 311 (68.4%)	8 schools (8 schools)		(INT) 10 behaviorally-based nutrition	8 schools (8 schools)	Intervention materials and training received after completion of follow-	[kcal/1000 kcal]	Diff: 0.635 (CI: -0.866,2.137)	No.	intervention components was limited.	intervention to increase fruit, vegetable and lower	vegetable and lower fat food intake in middle schools which
									middle schools with students' intakes of and lower fat foods	n a goal of increasing f fruits, vegetables,	p	rice lunch	African American: 38 (8.4%) Asian or Pacific Islander: 38			education sessions of the TEENS curriculum in grade 7 and grade 8		period	Mean energy from fruits and vegetables from 24-h recall [kcal/1000 kcal]	r INT: 3.60 vs CON: 4.09 Diff: -0.492(CI: -1.032, 0.049)	NS		fat food intake in middle schools which	had been successful at 1 y evaluation showed no diet at change at 2nd y evaluation.
									and lower lat loods	•			(8.4%)			Provision of a family education component including 3 newsletters,			Secondary Mean fruit servings from 24-hr recall [servings/d	Secondary: No difference between groups for any combination of fruit / vegetable	NS		1 y evaluation showed no diet change at 2nd	
													Hispanic/Latino: 14 (3.1%) Native American: 7 (1.5%)			parental tips on diet improvement, family games, behavioral coupons related to diet, and homework			(SE)] Mean vegetable servings from 24-hr recall	intake.			y evaluation.	
													Multiracial: 23 (5.1%)			assignments for 7th graders			[servings/d (SE)]					
													Other race: 24 (5.3%)			Changes were made to school food policy and food service staff were trained to modify the school food			Mean servings of fruit and vegetables from 24-hr recall [servings/d (SE)]					
													Living with 2 parents: 74.1%			environment to promote healthier for choices	d		Mean food choice score based on survey (SE)	INT: 6.15 vs CON: 5.78 Diff: 0.375 (CI: 0.038,0.713)	S*			
													Receiving reduced price lunch 104 (22.9%)	n:										
													Parents with full-time employment:											
													2 parents: 213 (46.8%) 1 parent: 163 (35.8%) Neither parent: 79 (17.4%)											
15090126 Lytle LA	School-based approaches to affect adolescents' diets: results from the TEENS study	2004											Parents' highest education: Both ≤ high school: 53 (11.6%)											
	,												1 with trade school/some college: 71 (15.6%)											
													1 with ≥ college: 87 (19.1%) Both ≥ college: 104 (22.9%) Other/unknown: 140 (30.8%))										
													Patient characteristics were based on a sample of 455											
15107313 James J	Preventing childhood obesity by	2004 PCT	None	Q6 (RF2, RF8, RF9)	England	Community	None/NR	1 ur	1 ur. Determine if a selec	ool-based educational	644 (6 Podintrio/ 7	11 ur	subjects Mean age (SD): 8.7 yr (0.9)	325 (295)	Behavioral	Arm 1: Focused educational program	240 /270)	Control Arm: No intervention (CON)	Primary	Discount At 40 areas		Non- and Mississippi	A sebest based	04042 Asshed based
13107313 James 3	reducing consumption of carbonated drinks: cluster randomised controlled	2004 101		Q13 (RF8, RF9)	Liigialiu	(schools)	NOTENT	, y,	program aimed at re consumption of cart	educing bonated drinks can	schools, Young adults	-11 yi	Boys:	15 classes (15 classes)	Deliaviolal	on nutrition (INT)		Intervention materials and training	Mean change in total carbonated drink intake [# glasses per 3 d (95%CI)]	Primary: At 12 mos: Mean difference between groups: 0.7 (0.1, 1.3)	S, between groups	None reported Water intake increased in both groups.	carbonated beverage	Q10,13. A school-based program to decrease carbonated beverage intake produced a
	trial								prevent excessive v children	weight gain in	classes)		Arm 1: 169 Control Arm: 155			1-hr session consisting of teacher- administered lessons and creative games to discourage the consumption	n	received after completion of follow- period	Mean total carbonated drink intake (# glasses per d (SD))	3 INT: -0.6(-1.0,-0.1) vs CON: + 0.2 (-0.2, 0.5)	s		intake produced a significant change at 12 mos. BMI	significant change at 12 mos. BMI increased less in INT groups but difference was not
													Overweight: Boys: Arm 1: 21			of carbonated drinks with positive affirmation of a balanced healthy diel			Prevalence of overweight and obesity(%)	INT: 20.3+/-6.3 to 20.1+/-6.7 vs CON: 19.4+/-8.4 to 26.9+/-12.3 :	S for change, between groups		increased less in INT groups but difference	significant. Proportion of INT group found to be overweight/
													Control Arm: 18 Girls:							Mean difference = 7.7%(CI 2.2 to 13.1)			Proportion of INT group found to be	obese at 12 mos was significantly lower in INT group.
													Arm 1: 19 Control Arm: 20						Secondary: Mean BMI [kg/m² (SD)]	Secondary: INT: 17.4+/-0.6 to 17.9+/-0.7 vs CON:17.6+/-0.7 to 18.3+/-0.8	NS		overweight/ obese at 12 mos was significantly lower in	
													Obese: Boys: Arm 1: 11						Mean z score (SDS)	INT: 0.50+/-0.23 to 0.48+/-0.23 vs CON: 0.47+/-0.2 to 0.60+/-0.19	NS		INT group.	
													Control Arm: 10 Girls:						Water consumption [glasses over 3 d(SD)]	INT: 3.1+/-1.1 to 4.3+/-2.0 vs	S from B/L; NS between groups			
													Arm 1: 10 Control Arm: 12						, [3	CON: 2.9+/-0.3 to 5.1+/-2.0	S from B/L			
15159241 Ulbak J	Diet and blood pressure in 2.5-y-old	2004 RCT	None	Q10 (RF4, RF9)	Denmark	Clinical	Double	4 mo	2.5 yr Investigate whether	r maternal intakes of	122 Parental/ P	regnant women	NR	122/100	Dietary	Arm 1: 17 g/d fish oil (INT)	60 (50)	Control Arm: 17 g/d olive oil (CON)	Primary:	Primary:		None None	(1) Fish oil	Q 10. Fish oil supplementation
	Danish children	-		Q13 (RF4, RF9)	1				n-3 LC-PUFAs durir current intakes of m BP in children	ng lactation and	Family/	ish intake below 44th percentile 0.40 g n-3 LC-PUFAs/d)	,		Supplements	Received a 1:2 mixture of 2 microencapsulated fish oil capsules,		Received microencapsulated olive	Mean DBP (mmHg (SD)) at 31 mos	INT: 67+/-2 vs CON: 67+/-2 vs REF: 63+/-2 INT:112+/-2 vs CON:108+/-2 vs REF: 108+/-2	NS NS		supplementation to increase maternal	to increase maternal intake of n- 3PUFA in lactating mothers had no impact on BP measured 2 y
									S. II. Sillulen		В	MI < 30				with 47 mg eicosapentaenoic acid pe g of fish oil and 32 mg DHA per g fish	r ì	53 mothers with naturally high fish intake of > 74th percentile [> 0.82 g	(0-		-		lactating mothers had no impact on BP	later.
											N	lo metabolic disorders				oil and with 16 mg eicosapentaenoic acid per g of fish oil and 75 mg DHA per g fish oil, respectively		LC-PUFA/d] were assigned as the reference group (REF)	e	**With MVA, higher protein intake at 2.5 yrs of age was associated with significantly lower SBP & DBP.	s for SBP & DBP		(2) Higher protein	Q 10. Higher protein intake at 2.5 y was associated with lower SBP & DBP.
											Ir	itention to breastfeed for ≥ 4 mo				This mixture provided 4.5 g fish oil at 1.5 g n-3 LC-PUFA, which is	nd						intake at 2.5 y was associated with lower SBP & DBP.	
																equivalent to the habitual intake of the women in the population with the	e						JON W DDF.	
15351759 Trevino RP	Impact of the Bienestar school-based	2004 RCT	None	Q 10, 13 (RF6, RF8,	USA	Community	None/NR	7 mo	8 mo Evaluate impact of a	a school-based	1,419 Parental/ 4	th grade	Mean age (SD):	713 (619)	Behavioral	highest fish intake (90th percentile) Arm 1: Health and physical education	706 (602)	Control Arm: NR (CON)	Primary:	Primary:				Q 10,13. A school-based diet
	diabetes mellitus prevention program on fasting capillary glucose levels: a randomized controlled trial			RF9, RF11)		(schools)			diabetes mellitus pr low-income fourth-g American children	revention program on grade Mexican	(27 Family/	xclusions:	Arm 1: 9.79 yr (0.53) Control Arm: 9.77 yr (0.49)			health club participation + family program + school cafeteria program (INT)			Mean fasting capillary glucose [Difference betwee groups[mg/dL;(95%Cl)]	-2.24 (-4.20,-0.28)	S	between groups No measures of	and exercise intervention reduced	and exercise intervention reduced fasting glucose, improved fitness scores and
	W Mari								Gil		P	revious exposure to Bienestar	Male: Arm 1: 50%			50 sessions of health programming			Secondary: Mean BF [%; Difference between groups (95%CI)]	Secondary 0.18(-0.45,0.81)	NS	insulin resistance were reported.	improved fitness scores and increased	increased fiber intake in Mexican- American elementary-school
												Iternative schools ge > 12 yr	Control Arm: 51% Asian:			distribited throughout 7 mo 1 45-min health education class per			Mean physical fitness score [points [%; Difference between groups (95%CI)]	1.87(0.09, 3.65)	s		fiber intake in Mexican American elementary- school aged children.	i- ayea chilaren.
											P	reviously diagnosed with type 1				wk; 4 45-min physical activity session per wk	ns		Mean dietary fiber [g/d; Difference between group:		9*			
												r type 2 diabetes mellitus xtreme dietary values	Mexican American: Arm 1: 82.5% Control Arm: 76.7%			Health club for 1 h/wk after school to promote leisure-time physical activity			(95%CI)] Mean energy intake from saturated fat [%;					
											3	-day average calorie intake <	African American: Arm 1: 7.0%			Parent meetings held every other mo			Difference between groups (95%CI)]	-0.68 (-2.01,0.65)	NS			
											8	00 or > 4,800	Control Arm: 13.1% Other ethnic group: Arm 1: 5.0%			included parental workbook 1 lunch visit/wk to persuade children	to							
													Control Arm: 4.0% Disadvantaged students (SD):			eat more fruit and vegetables and les fatty foods	is							
													Arm 1: 94.40% (7.18) Control Arm: 95.10% (4.01)										
													Mean household income: Arm 1: \$11,000 Control Arm: \$12,000											

PMID First Author	Title	Year Study Type	CVD RF	by CQ Co	untry Sett	ting E	Blinding Int Length	Total Study Duration Main Study Objective	Total N Target Population	Eligibility Criteria	Patient Characteristics	Int. n at Baseline (n at Final Follow-up)	Int Type	Specific Intervention	Control n at Baseline (n a Final Follow-up)	tt Specific Control	Oulcomes Measured	Results/CI	Significance S (p<0.05 or non-overlapping CI); S* (p<0.01); S** (p<0.001); NS (p≥0.05 or overlapping CI)	Safety and Adverse Events Additional findings	Summary	Main Reported Findings by Critical Question
15351759 Trevino RP	Impact of the Bienestar school-based diabetes mellitus prevention program on fasting capillary glucose levels: a randomized controlled trial	2004									First- or second-degree relative with diabetes mell Arm 1: 55% Control Arm: 60%								5 (p-u.uu); NS (p2u.us or ovenapping Cl)			
15930237 Van Horn L	Children's adaptations to a fat-reduced diet the Dietary Intervention Study in Children (DISC)	2005 RCT	None O6 (RF2 RF9) Q13 (RF		Clinical	Noni	heNR 3 yr	7 yr Compare children's self-selected eating patterns and approaches to achieving adherence to the DISC fat-reduced det intervention with children in the usual control of the control of	663 Pedatric/ Young adults	8-10 yr LDL-C levels from 80th to < 988 percentile based on age-gender detributions Prepubertal Exclusions: SBP ≥ 125 mmHg DBP ≥ 80 mmHg	Mean age (SD): Arm 1: 9.6 yr (0.7) Control Arm: 9.6 yr (0.7)	306 (NR)	Behavioral	Arm 1. Diet + nutritional education Recommended intake of total fat wa 25 %C, with + 6% from saturated for 25 %C, with + 6% from saturated for 4 % from saturated for 5 % from saturated from saturate 5 % from saturated from saturate 5 % from saturated from saturated 5 % from saturated from saturated 5 % from	nd o	Control Arm: Usual care Children provided educational publications on heart-healthy eating the control of the control of the control of the public generally available to the public generally available to the	Primary: Total go foods (% of energy) Total go foods (% of fat energy) Total who foods (% of fat energy) Total whos foods (% of fat energy) Total whos foods (% of fat energy) Hearn changen in Inteke of "Oo Foods" four- stativitied fat and cholesterol foodsfrom Bit. to 3y Bearn changen in Inteke of "Oo Foods" four- stativitied fat and cholesterol foodsfrom Bit. to 3y Bearn Changen Bearn Changen Bearn Changen Hearn Chang	Primary: INT: Bit. 57.0% to 3y: 67.4%; CON: Bit. 57.1% to 3y: 56.8% INT: Bit. 12.4% to 3y: 13.7%; CON: Bit. 13.1% to 3y: 12.8% INT: Bit. 12.4% to 3y: 13.7%; CON: Bit. 13.1% to 3y: 12.8% INT: Bit. 24.1% to 3y: 23.6%; CON: Bit. 23.9% to 3y: 43.2% INT: Bit. 21.3% to 3y: 15.4%; CON: Bit. 21.2% to 3y: 20.7% (Shown as figure) Increased in INT & CON Increased in INT & CON Increased in INT Increased in INT increased in CON Increased in INT increased in CON Decreased in INT. Increased in CON Decreased in INT increased in CON Decreased in CON	Not reported Not r	desserts make up 1/3 of daily calcrife for most clidren, intervention. Largest between group differences seen in daily, latestoils, & dessert BMM negatively associated with intake of GO grain & daily. LDLC & BMI	educational interventions to reduce children's dietary intake of saturated fat and cholesterol by intake of saturated fat and cholesterol by patterns was easing patterns was successful in increasing intake of sand decreasing intake of non-recommended choices. The intervention group vs. control group servings of foods low din saturated fat and cholesterol from the daily, fatisfuls and	An intensive 3-year educational interventions to reduce childrens dietary intake of saturated fat and cholesterol by changing and cholesterol by changing successful in increasing intake of recommended choices. The recommended choices. The recommended choices. The recommended choices. The group consumed more servings or foods low in saturated fat and cholesterol from the dairy successful in increasing intake of recommended choices. The recommended choices. The recommended choices. The recommended choices in the recommended choices. The recommended choices of foods from the dairy in the recommended choices for foods from the breadgrains, dairy, fathrolls, meat/fish/poultry and snack groups. However, there were groups.
15930237 Van Horn L	Children's adaptations to a fist-reduced diet. The Distary intervention Study in Children (DISC) Children's adaptations to a fist-reduced diet. The Distary Intervention Study in Children (DISC)	2005															Mean % of total energy from fat in combined GO in WHOA foods, Bit to 3 plants and to a whole foods and to a second and to a se	INT 315 to 12.6. CON-12.1 to 11.8 INT 12.10 17.1 CON-15.8 bit 17.5 INT 24.8 to 24.6. CON-23.3 to 23.6 INT 34.8 to 24.6. CON-23.3 to 23.6 INT 33.10 3.3. CON-33.0 to 3.3 INT 34.0 56. CON-6.1 to 5.6 INT 36.0 CON-15.0 to 5.0 INT 46.0 56. CON-6.1 to 5.6 INT 46.0 56. CON-6.1 to 5.6 INT 47.0 to 15.0 CON-16.1 to 5.6 INT 47.0 to 15.0 CON-16.1 to 5.6 INT 47.0 to 15.0 CON-16.1 to 5.0 INT 30.6 to 31.8. CON-33.6 to 34.5	Not reported			
16157415 Hendy HM	Kids Choice school lunch program increases children's fruit and vegetable acceptance	2005 RCT	None Q13 (RF		Communic (schools)		18 meals (3 meals (unches) per week)	Choice* school lunch program	346 Pedatric/ Young adults	First, second, and fourth graden	s Mean age (SD): 8.0 yr (1.4) Boys: 169 Caucasian: > 95%	FAU. Four classes for each grade; half of classes for each grade; half of classes had a classes had	Behavioral	Am 1: Token reinforcement program for fruit consumption (FRT) "Kids Choice" school kinch program Received token for eating at least 1/ cup of fruit Token reinforcement for up to 18 meats (3 meals per week). Weekly token exchange; 3 tokens for an on-food reward. Am 2: Token reinforcement program on vegetable consumption (VEG) "Kids Choice" school kunch program Received token for eating at least 1/ cup of vegetable; per week). Weekly token exchange; 3 tokens for a non-food reward.		Students reinforced for eating vegetables were control for those reinforced for eating fruits, and vice versa. (CON)	Snacks/Dessert/Pizza Primary: Mean fruit consumption [number of meals (SD)]	INT: 9 to 8.1; CON: 11.0 to 10.0 Primary: By repeated measures ANOVA, fruit consumption increased for all 3 graduing the time block when children were being indirected for eating fully 7 months or different headeline. By repeated measures ANOVA, vegetable consumption increased in all grades during the time blocks when children were being reinforced for eating vegetables, at 7 months, no aff from baseline. Becondary: BECONDITY, 7 mor: 2.49(0.6); at 2 weeks, significant increase show for each grade separately as a graph BL: 2.97(0.07); 7 mor: 2.15(0.05); at 2 weeks, near significant increase shown for each grade separately as a graph	s: 3 S**,NS n S,NS	increased amounts of F & V are eaten with increasing age regardless of preferences. Reinforcing eating fruits was associat with an increase in	intervention for 1st of the 1st o	O10.13. A school lunch intervention for 1st to 4th grade students increased F & V consumption by selectively reinforcement of eating fruits or vegetables at very short term vegetables at very short term vegetables at very short term consumption by a consumption by a consumption of the vegetables at very short term vegetables at very short term of the vegetables at vegetables
16201656 Salminen M	Effects of a controlled family-based health education/counseling intervention	2005 RCT	None 210 (RF RF11)	RF10. Finlan	d Mult settle	None None	Sept 1997_lune 2000	Sept 1997- Describe the effects of a controlled June 2000 fact the controlled controlled education/courseling intervention on health behaviors of children with a familial history of CVD	1283 Parental Family Caregiver	6-17 yr Family history of early onset coronary heart disease, impounded inflamous the coronary heart disease. In proceeding inflamous the coronary heart disease, and the coronary of the coronary of the coronary of the coronary onset defined as having first attack before age of 55 yr for men and 65 yr for women)	Girls: 10.9 yr (2.9)	515 (432)	Behavioral	Am 1: Health education and counseling (IV). Children were individually counseled about det and nutrition, exercise, the counseled of the counseled about det and nutrition, and creas and accorded associated ass	(423)	Control Arm 2: Non high-risk familier receiving no health counseling + regular health service options(CON	Frequency of adding salt to food: [n (%)] Subjects reporting rarely adding salt Subjects reporting adding salt when food does not taste salty enough/	Primary: Baseline vs FIU: INT vs CON1: INT: 13% to 5% INT: 13% to 5% INT: 23% to 15% INT: 25% to 15% INT: 25% to 15% INT: 25% to 15% INT: 25% to 25% INT: 51% to 57% INT: 51%	S** between groups at F/U S** between groups at F/U S* between groups at F/U for both measure Overall frequency of exercise NS	given.	s families with a (+) hx o early CV disease, a family-oriented health education program produced favorable	-

PMID First Author	Title	Year Study Type	CVD RF by CQ	Country	Setting	Blinding Int Length	Total Study Main Study Objective Duration	Total N Target Population	Eligibility Criteria	Patient Characteristics	Int. n at Baseline (n at Final Follow-up)	Int Type	Specific Intervention	Control n at Baseline (n at Final Follow-up)	Specific Control	Outcomes Measured	Results/CI	Significance S (p<0.05 or non-overlapping CI); S* (p<0.01); S** (p<0.001); NS (p≥0.05 or overlapping CI)	Safety and Adverse Events Additional finding	gs Summary	Main Reported Findings by Critical Question
16219630 Bere E	Free school fruit—sustained effect 1 year later	ACCT N	010(RF9) 011 (RF9)	Norway	Community (schools)	round (NR) 2 yr	2 yr Report the effects of a school- randomized fruit and vegetable price intervention constitute of a subsciption intervention constitute of a subsciption Programme and the Fut and Vegetables Make the Marks (FVMM) educational program	577 (19 Parental schools) Family Caregver	jour grade	Mean age: 11.3 yr Boys: 271 Girls 246	NR (286) 9 schools (9 schools)	penavioral	Am tr. FVMM educational program + school first program In yr.1, the FVMM educational program to yr.1, the FVMM educational program was offered and subscription for the Norwegian School Fruit Programme at no cost to the parents for all 8 intervention schools In yr.2, there was no FVMM educational program offered, 5 schools optical to participate in a standard School Fruit Programme in extending the program of		Control Am 1: No FVMM school program + school full program in such offul program in yr. 1,2 students from 2 schools participated in a standard School Fruit Programme in which fut it is paid for, 8 schools did not have a school fluit program in yr. 2,1 % students from 3 schools participated in a standard School Fruit Programme in which fruit is paid for, 7 schools did not have a school fruit program.	vegetable intake at school (95% CI) Adjusted mean effect of intervention on fruit and vegetable intake all d (95% CI)	Primary, Follow-up 1: INT. 0.30(1.1.04) to 0.34(0.83,1.00) CON-0.37(0.10.05) to 0.27(0.11.0.43) CON-0.37(0.10.05) to 0.27(0.11.0.43) Follow-up 1: Follo	NS between groups at B/L; S** at F/U 1 p=.07 between groups NS between groups at B/L; S at F/U 1 S between groups S from B/L for both groups; NS between groups at B/L and F/U 1 S between groups at F/U 2	None reported No effect of vacuational intervention.	effect is sustained as long as free access is	G10.11. Direct provision of F&V increases intake in children and this effect is sustained as long as no separate effect of a F & V educational program.
16219631 Bere E	Outcome and process evaluation of a Nonvegian school andomized furth and vegetable intervention: Fruits and Vegetables Make the Marks (FVMM)	2006 RCT N	one Q13 (RF9)	Norway	Community (schools)	NoneNR 7 mo	21 m0 Vegetables Make the Maria (PMM) intervention, a school-based fruit and vegetable intervention. a school-based fruit and vegetable intervention	450(19 Parental/ schools) Emily Caregiver	6th grade	Mean age: 11.3 yr Boys: 169	NR (190) 9 schools (NR)	Sehavioral	Ann 1: Home economics disastrom lessons + parental newsletters + school fruit and vegetable subscription program available for \$ 7 -session curriculum (3.45-minute lessons per session) delivered by home economics leachers in home economics leachers in home economics leachers in home economics leachers in home experience of the subscription of the subscription of the subscription recommendations regarding healthy levels of fruit and vegetable intake. Taste-testing, individual F&V more interest of the subscription to participate in a national first and vegetable subscription program vegetable subscription program	NR (179) 10 schools (NR)	Control Arm: school fruit and vegetable subscription program available for \$	Primary: Adjusted mean effect of FVMM intervention on fru and vegetable intake at school (85% CI) Adjusted mean effect of FVMM intervention on dauly fruit and vegetable intake (85% CI) Adjusted mean effect of FVMM intervention on awareness of 5-a day (85% CI) Adjusted mean effect of FVMM intervention on awareness of 5-a day (85% CI) Secondary: Association of curriculum enjoyment with adjusted mean daily fruit and vegetable intake (85% CI) Association of usage of parental neveletters with adjusted mean daily fruit and vegetable intake (95% CI)	Primary: No change in either group No change in either group INT: Bit.: 3.4(3.1.3.8) to F/U 1: 4.1(3.8.4.4) to F/U 2: 3.9(3.7.4.1) CON: Bit.: 3.6(3.3.3) to F/U 1: 3.4(3.2.3.1) to F/U 2: 3.9(3.7.4.1) CON: Bit.: 3.6(3.3.3) to F/U 1: 3.4(3.2.3.1) to F/U 2: 3.9(3.7.4.1) Secondary: Limer mixed mode! High enjoyment of curriculum asstrd with increased daily F&V intake at F/U 1 & 2. High use of parental newsletters asstrd with increased daily F&V intake at F/U 1 & 2.		Not reported F&V Intake did not reported from the curriculum and the c	grade children had no f significant impact on d children's fruit and vegetable consumption.	A school-based intervention for 6th grade children had no significant impact on fluit and vegetable intake but did result in increased awareness of 5-a-day recommendation.
16234839 Talvia S	Longitudinal tends in consumption of weglatides and note in Financia holitics expectation and note in Financia holitics in an atheroscidenosis prevention study (STRIP)	2006 RCT N	one Q10 (RF9) Q11 (RF9) Q13 (RF9)	Finland	Clinical	None NR 10 yr 5 mo	10 yr 5 mo Aeses prepsychiely this consumption for the molecular part and registeries and consumption consumption in boys and gifs taking part in an atherosclerosis prevention study	1,062 Parental/ Family/ Caregiver	7 mo of age at enrollment Participants of the Special Turku Corronay Risk Factor Intervention Project for Children (STRIP) study	Boys: 490' Girls: 572	\$40 (228)	Behavioral	Arm 1: Individualized nutritional counseling aimed at reduction of the child's saturated fat reduction of the child's saturated fat intake. Nutrition counseling aimed at reduction of the child's saturated fat intake. Nutritionist met with families at 1- to 3-mo intervals until child was 2 yr old, and biannually thereafter. Counseling (given mainly to parents, but after child's age of 7 yr, separate sessions organized for child and parents. Optimal diet was defined to contain energy without any restrictions, fat 30-35 %E between 13 mo and 2 yr as 3 %E between 13 mo and 2 yr as 3 was part of 2 yr as 3 was 1 was 1 mo and 2 yr and 2 yr as 3 was 1 was 1 mo and 2 yr and 2 yr as 3 was 1 was 1 mo and 2 yr as 3 was 1		Control Arm: No nutritional counselin Families did not receive routinely receive any detailed counseling focused on the risk factors of atherosclerois At the age of 12 mo. cow's milk with at least 15% far was recommended No other detailed suggestions concerning quality or quantity of et were given, and detary issues were discussed only briefly	Primery: Secondary: Secondary: Mean truit and berry consumption (g (SD)) Mean vegetable consumption (g (SD)) Mean vegetable consumption [g (SD)) Mean potato consumption [g (SD))	Prinary: Prinary: or girl: Difference between INT & CON = 0.5% (CI: 0.32-0.94) For boy: Difference between INT & CON = againtiantly greater at 6 of 16 age points: 1.3% (CI: 0.5-2.1, 0.2.1%) Secondary: No difference between groups for girls. For boys: NT vs CON:mean difference=10.1 gid(5.3,14.9) INT goxp(boys & girls) consumed more vegetables than CON (mean diffe-24) (CI: 22-5.5) No difference between INT & CON groups	S S" NS S NNS		Intake was associate with a small increase in % of energy from lee F&V in boys and gibb but effect was a significantly greater in boys. Overall, fruit ar vegetable consumptio was markedly low and decreased with increasing age.	10.1.1.1.2. Nutrition courseling which fecusion for larlade was associated with a small increase in % of energy from F&V in boys and girls, but effect was applicately greater in boys. expenditude of the small properties of
16336114 Cottrell L	A kindergarten cardiovascular risk surveillance study: CARDIAC-Kinder		O10 (RF9, RF11		Home	None/NFK 4 wk	Evaluate an intervention aimed at increasing family physical activity and prent education about det and activity for sindegraters solution and issues valued to their children's BMI and solutions.		4-6 yr Kindergarten students Rural West Virginia counties	Male: 5.3.3% Mean age (SD): 5 (0.64) White: 98.0% Overweight or at risk: 31.09 Family history of: Heart disease: 55.7% Diabetes: 43.9%			Arm 1: 2 pedometers + step log + information packet 1 pedometer was for the child and the other was for the participating parent to use during the project period with the daily step log log to record each participant's steps Received information about the age- appropriate diet and exercise guidelines for indergarten children and information reparing increasing here citaly steps by 2000 and to reduce the participant of the participant received information on ways to increase exercise, particularly steps	NR (26 parent-child dyad)	Control Am: 1 pedometer + step log + information pacet and a step log of their sole use. Children received 1 pedometer and a step log for their sole use. Received information about the age-appropriate diet and exercise guidelines for kindergarten children	Mean number of child's steps [number/wk (SD)] Mean sweets intake [number/wk (SD)]	Primary.WEEK 4 CON.7799+3-3073 vs INT.9815+/-3910 CON: 9.1+/3.9 vs INT.8.4+/-3.1 Secondary. WEEK 4 CON. 8.7+/-3.4.1171.0.0+-8.3 CON: 8.9+/-4.1 vs INT. 9.6+/-7.8 CON.8.3+/-4.7 vs INT.8.3+/-8.8 CON.11.0+/-4.8 vs INT.12.5+/-2.2	S S NS NS NS	weight were not accurate.	d family-based educational intervention increase parental awareness and was associated with a measurable increase in activity an decrease in consumption of sweet in children.	
16365065 Damsgaard CT	Fish oil affects blood pressure and plasma lipid profile in healthy Danish infants Fish oil affects blood pressure and plasma lipid profile in healthy Danish infants	2 fedorial design vs. no fish oil) and cow's milk vs. milk vs. formula.	NP-9)		Clinical	NoneNR 3 mo	3 mo investigate effects of fish oil on blood pressure and lipid profile in infancy	94 Pediatric/ Only 2.6% who garden and a second a	7.9 mo at enrollment, 9 mo at randomization. Daily consumption of cow's milk or infant formula	Control Arm 1 & 2: 9.1 mo	Arm 1: 19 (15) Arm 2: 26 (25)		to fish oil (+FO) or no fish oil (+FO). Amm 1: Fish oil is FILd+ cow's milk Amm 2: Fish oil 5 mL/d+ infant formula Fish oil contained 352 g/L (n-3) LC- PUFA and 3 g/L cholesterol Groups combined in the analysis as FO.	Control Arm 2: 22 (20)	Control Arm 2: Infant formula Groups combined in the analysis as CON.	Primary: Mean adjusted SBP [mmHg (SEM)] Mean adjusted DBP [mmHg (SEM)] Mean adjusted DBP [mmHg (SEM)] Mean adjusted TC [mmDl (SEM)] Mean adjusted TC [mmDl (SEM)] Mean adjusted LDL-C [mmDlL (SEM)] Mean adjusted HDL-C [mmDlL (SEM)] Mean adjusted HDL-C [mmDlL (SEM)] Secondary: Mean adjusted BDD [mmDlL (SEM)] Mean adjusted HDL-C [mmDlL (SEM)] Mean polyunsaturated fat intake [%E (SD)] Mean polyunsaturated fat intake [%E (SD)] RBC BA content [%] RBC DHA content [%] RBC Innoleic acid content [%]	Primary (at 12m) For 10.04(24) vs CON: 108.7(2.2) No difference between groups. No difference between groups. For 3.35(0.16) vs CON: 2.84(0.16) No difference between groups. For 3.00 (1.00) vs CON: 2.84(0.16) No difference between groups. No difference between groups. Secondary: No difference between groups. For 17.4(1.2) vs CON: 16.9(1.0) For 16(4) vs CON: 18.9(1.0) For 16(4) vs CON: 18(3) For (2(2) vs CON: 4(1) Increased from baseline in FO; no change in no FO Decreased from baseline in FO; no change in no FO Decreased from baseline in FO; no change in no FO Decreased from baseline in FO; no change in no FO	S NS NS NS S NS S NS NS NS NS NS NS NS N	cow's milk vs. inf formula was associated with higher total cholesterol levels	with short term evidence of lower systolic blood pressur and increased plasma concentrations of LD cholesterol at 12 m of age. teled t at at at	
1656/7815 Kaitosaari T	Low-saturated fat dietary counseling starting in infancy improves insulin sensitivity in 19-4-20 cell the atthly represented in 19-4-20 cell the atthly sensitivity in 19-4-20	2006 RCT N	One Q10(RF4, RF5, RF4) Q11 (RF4, RF5, RF4) Q12 (RF4, RF5, RF8, RF14) Q13 (RF4, RF5, RF5, RF7, RF74)	RF8,	Clinical	None/NR 0 yr	Study effect of infancy creat biannually given detary counseling on markers of insulin resistance in healthy 8 yr old children	167 Parental/ Family/ Caregiver	200 consecutive children who were randomized at 7 mo of age to either blammal det low fall, on the control of t	Control Arm: 47 M,42 F	100 (78)	Behavioral	Arm 1: Individualized dietary counselling twice a yr Counselling aimed at fall intake of 30%E, protein intake of 10-15%E, and CHO 55-60%E	100 (89)	Control Arm: Basic health education	Primary: Total fat intake (E%) Sat fat intake (E%) PUF fat intake (E%) Mean insulin [mUL (SD)] Mean HOMA-IR Secondary: Mean serum TC [mmoll (SD)] Mean LDL-C [mmoll (SD)] Mean LDL-C [mmoll (SD)] Mean app A-1 [g/L (SD)]	Primary: M: NT: 30.84-3.9 vs CON: 31.84-4.3 GEORGE 44-4.4 M: NT: 11.2 +4-1.9 vs CON: 12.84-2.1 GEORGE 42-4.2 M: NT: 51.2 +4-1.9 vs CON: 42.84-2.3 M: NT: 53.94-1.12 vs GEORGE 58-4-1.12 vs	S* between groups, S* between groups S* between groups S* between groups, 5* between sexes S* between groups, 5* between sexes **With univariate analysis, sat fat intake was associated with HOMA-HR(ps/S*) but with MVA for all subjects, significant explanatory variables for the sexes of	None There were no significant of differences in significant of the STRIP trial.	low sat fat diet rounseling resulted in diminished intake of n saturated fat and higher intake of polyunsaturated fat plus better insulin resistance assessed by HOMA-IR. There	

PMID First Author		Year Study Type CVD	RF by CQ	Country	Setting	Blinding	Int Length	Total Study Duration	Main Study Objective	Total N	Target Population	Eligibility Criteria	Patient Characteristics	Int. n at Baseline (n at Final Follow-up)	t Int Type	Specific Intervention	Control n at Baseline (n Final Follow-up)	at Specific Control	Outcomes Measured	Results/CI	Significance S (p<0.05 or non-overlapping CI); S* (p<0.01); S** (p<0.001); NS (p20.05 or overlapping CI)	Safety and Adverse Events	Additional findings	Summary	Main Reported Findings by Critical Question
16567815 Kaltosaari T	Low-saturated fat delary courseling 2starting in infancy improves insulin sensitivity in 8-year-old healthy children. Respect Turku Coronary Risk Factor Intervention Project for Children (STRIP) study	006																	Mean apo 8 (glt. (SD)) Mean glucose [mmolt. (SD)) Mean glucose [mmolt. (SD)) Mean glucose [mmolt. (SD)) Mean weight sig (SD) (% (SD)) Mean weight sig (SD) (% (SD)) Mean weight sig (SD) (Mean DSP) Mean SPB [mmfig (SD)) Mean DSP [mmfig (SD)) Mean DSP [mmsig (SD)] Mean botal farting (SD) Mean botal farting (SD) Mean botal farting (SD) Mean moltar (SD) Mean polyunsaturated fat infake (SE (SD)) Mean polyunsaturated fat infake (SE (SD)) Mean CHO intake (%E (SD))						
16733670 Amaro S	Kaledo, a new educational board- game, gives nutritional rudiments and encourages healthy eating in children: a pilot cluster randomized trial	006 RCT None	Q10, 13 (RF8, RF9, lt	taly Co	ommunity Non	ne 24 v	wk 2	game o	e efficacy of the Kalèdo boai on changes in nutrition dge and dietary behavior	291 16 classroor s	Young Adults	Exclusions: Metabolic disorders Mental diseases	Mean age (SD): Arm 1: 12.3 yr (0.8) Control Arm: 12.5 yr (0.7) Males: Arm 1: 78 Control Arm: 55 Caucasian: 100%	188 (153) 10 classrooms (8 classrooms)	Behavioral	Arm 1: Kaledo game play session 15–30 min play sessions once a week with game components designed to provide nutrition knowledge and promote a healthy deltary behavior in children		Control Arm: No intervention	Adj mean nutrition knowledge measure (95% CI) Adj mean BMI z-score (95% CI) Adj mean intake of vegetable (servings/wk (95% CI)] Adj mean physical activity level [firid (95% CI)]	INT: 11.24(10.68.11.80) vs CON: 9.24(6.50.9.86) No difference between groups after controlling for B/L values. INT: 3.7(3.5.4.1) vs CON: 2.8(2.4.3.3) INT2.1(1.9.2.3) vs CON: 2.2(2.0.2.4)	S NS S* NS	None reported	e n a ir	effective in increasing	110,13. A board game was ffective in increasing nutrition nowledge and weekly vegetable take in 11-14 y old dolescents.
17083165 DeJongh ED	Fat mass gain is lower in calcium- supplemented than in unsupplemented preschool children with low dietary calcium intakes		06 (RF2, RF8, RF9) L 010 (RF8, RF9, RF11)	JSA Cli	Oth Oth	ier 1 yr	1	exists t BF or fa	uine whether an association between change in percenta at mass and calcium intake i aged 3-5 yr	ge 178	Pediatric/ Young Adults	3-5 yr	Mean age (SD): Soys: Arm 1: 3 9 yr (0.6) Control Arm: 3.9 yr (0.6) Arm 1: 4.0 yr (0.6) Control Arm: 3.9 yr (0.5) Boys: 93 Patient characteristics perfain only to the 175 children with complete data who were included in the final analysis	NR (88)	Dietary Supplements	Arm 1: Calcium = fine motor activities Fine motor activities were designed to keep children stifting quietly Arm 2: Calcium = gross motor activities Gross motor activities were designed to provide 5 min warm-up, 20 min jumping, hopping, and skipping, and 5 min cool-come Both arms received 2 bullets of Tubble containing 50 mg elemental cultural as calcium carbonate each, 1,000 mg/cl calcium in both arms, children participated in physical activities 30 mind, 5 d/wk	5	Control Arm 1. Placebo + fine motor activities Control Arm 2. Placebo + gross moto activities In both arms, children participated in physical activities 30 minid, 5 dwk	Mean dietary calcium [mg/d]	Primary: M: NIT: 198+/237/PLAC: 1028+/277 F: INT: 1310+/356; PLAC: 860+197 F: INT: 1310+/356; PLAC: 31+4/2 F: INT: 0.5+/3.1 vs PLAC: -0.8+/2.4 Secondary: NO officence between INT & PLAC groups within gender for any of these measures.	S' between groups within gender NS between groups, S from B/L in all NS		reported for children a	added dietary calcium a did not reduce gain in at mass when baseline intake of	10 in 3 to 5 yr old children, 10 in 3 to 5 yr old children, 10 in 6 to 6 t
17150115 Ask AS	Changes in dietlary pattern in 15 year 2 old adolescents following a 4 month olderlary intervention with school breakfast—a pilot study		Q10.13 (RF8, RF9) N		ommunity Non	ne 4 m	0 4	perform second introdu	te if dietary habits and schoo nance improved in a lower ary school class as a result cing breakfast	of	Young Adults	15 yr	Males: Arm 1: 15 Control Arm: 14	26 (NR)	Multiple Interventions	Arm 1: Free breakfast + food supplements + healthy diet informatio (NYT) Students were offerer a breakfast consisting of low fat milk, orange juice whole grain bread, different speaked Shop inferent speaked Shop were also offered consisting of vitamins, minerals and omega -3 fatly acids. Students were given information about the importance of a healthy diet	ut	Control Arm: Healthy diet Information (CON) Students were given information about the importance of a healthy die	Median BMI [kg/m² (range)] t Median weight [kg (range)] Healthy eating index Median food score (range)	INT CON M pre 22.6(17.8-33.6) 21.7(17.0-29.4) M pre 22.6(17.8-33.6) 21.7(17.0-29.4) M pre 22.6(17.8-33.6) 22.7(17.0-29.4) M pre 22.6(17.8-32.1) 22.6(18.0-29.87.7) M pre 73(55-109) 87(50-90) M post 73(57-109) 87(50-90) M post 73(57-11) 70(54-22) 7 F post 60(48-78) 61(48-80) Score in INT Ms increased significantly, no change for CONs; no change in s, NT or CON.	S from BiL for CON; NS for INT S from BiL for CON; NS for INT S from BiL for INT; S** for CON NS from BiL for INT; S** for CON S* for INT Ms only	None	b gri	preakfast for 10th grade students esulted in no increase sufficient in no increase sufficient in no increase sufficient in no increase sufficient increase in it compared with a significant increase in it compared with a significant increase in it compared with no sufficient increase in increase in any sufficient increase sufficient s	110,13. Providing breakfast for 0th grade students resulted in oncrease in Bill in Nif group oncrease in Bill in Nif group processes in CONs. 17 Ms had an improvement in eatily eating score with no hange in any other group, and the score of the score of the processes on change in school school of the providence of the providence of the providence prov
1728825 Mangunikusum RT	o School-based internet-tailsrived fruit and 2' vegetable education combined with brief counselling increases children's awareness of intake levels	007 RCT None I	O10.13 (RF9)	The Co. (sc (sc)	mmunity Non	ne NR	3	children dietary	internet-lailored advice for si and Internet-supported bri counseling (with child and to promote fruit/vegetable in	ef classes)	Family/ Caregiver	7th grade	Mean age (SD): Am 1: 10.3 yr (0.5) Control Arm: 10.3 yr (0.5) Control Arm: 10.3 yr (0.5) Boye: Arm: 1: 45.6% Control Arm: 46.9% Dutch ethnicity: Arm: 1: 86.5% Control Arm: 46.6% Control Arm: 45.8% Control Arm: 45.8%	263 (263) 16 classes	Behavioral	Am 1: Internet-tailored nutrition advic dietary counselling (INT) the termit-tailored advice aimed to increase knowledge of recommended intake levels, increase awareness of personal intake levels, and stimulate children's liking of frutivegetables 2.wk after internet-tailored advice, child with 1 parent attended 5-min dietary counselling session, which occured at the end of a routine periodic health examination	14 classes	Control Arm: Usual care (CON) Routine periodic health examination	Primary: Mean fult frequency previous wk. [serving/d (SD) OR of usual daily fruit intake [% (95% CI)] Mean 24-hr recall vegetable intake [g (SD)] OR of usual daily vegetable intake [g (SD)] Secondary: Fruil/veg knowledge by questionnaire (%) Knowledge of recommended V intake [ORICI)] Awareness of inadequate fruit intake in previous week (%) Daily fruit intake achievable(%) Liking many kinds of fruit(%) Fruit availability at home (%)	Primary: INT: 11(7) vs CON: 1.2(0.7) INT: 32% vs CON: 34.7; OR=0.82(0.45,1.49) INT: 82% vs CON: 24.7; OR=0.82(0.45,1.49) INT: 81 vs CON: 28.7; OR+0.81(0.44,1.47) Secondary: INT:57: 1% vs CON: 50.7%; OR=1.30(1.75,5.26) OR=2.7(1.8.4.1) INT: 30.8% vs CON: 13.0; OR=3.04(1.75,5.26) INT: 76.% vs CON: 70.5%; OR=0.83(0.52,1.31) INT: 73.45% vs CON: 77.5%; OR=0.83(0.52,1.31) INT: 74.5% vs CON: 77.5%; OR=0.89(0.53,1.51) INT: 74.5% vs CON: 77.6%; OR=0.89(0.53,1.51)	NS NS NS NS S S NS NS NS NS NS NS NS NS	None	ir te s k ra v a ir	ailored internet i eedback had e significant effects on in	110.13.A neducational trevention with tallored tement feedback had significant tement feedback had significant commended vegetable intake a owareness of inadequate fruit take but no impact on actual F v V intake.
17299114 Faher JO	Effects of age on children's intake of 2 large and self-selected food portions	007 RCT None (cross-over)	Q10,13 (RF9)	Cii	Non	ne 20 n	In	large a	te the effects of age on intail and asserting and asserting and asserting and asserting and asserting asse	e of 75	Young Adults	2-3 yr 5-6 yr 8-9 yr Non-Hispanic white Exclusions: Chronic medical condition or	Meen age (SD): 2-3 yr group: 2-6 yr (0.5) 5-6 yr group: 5-6 yr (0.5) 5-6 yr group: 5-6 yr (0.5) 8-9 yr group: 5-7 yr (0.4) Boye: 44 Overweight: 20 Mothers reporting some college or further education: 70 Mothers reported being employed: 38	75 (69)	Behavioral	Intervention: Large portion entries Macaroni and cheese entries portion was double the reference portion size Intervention 2: Self-selected portion entries Macaroni and cheese entries portion was double the reference portion was double the reference portion as double the reference portion as double the reference portion cas but provided in an individual serving dish 20 min alletted for dinner; children instructed not to share food and ce as little or as much as desired Each child in each of the the 3 age groups was observed in the large portion condition, the self-selected portion condition, the self-selected portion condition. Condition sequence was irradomly assigned and spaced t wis spart	t t	Control. Reference portion entrée Macaroni and cheese entrée portion initially determined by reviewing initially determined by reviewing initial production and initial studies. Serving sizes differed by as group. Pilot seiting revealed the net to make upward adjustments to the amount specified for 64 y void group. 20 min allotted for dinner; children instructed not barse food and to ex as little or as much as desired	Reference portion condition e d Mean total energy intake [kcal (SD)] during: Large portion condition Self-selected portion condition Reference portion condition	2 - 3y-145(113); 5 - 6y-290(145); 8 - 9y-407(258) 2 - 3y-127(92); 5 - 6y-241(156); 8 - 9y-380(270) 2 - 3y-127(92); 5 - 6y-248(1); 5 - 9y-380(1773) Overall, entree triate was 25% greater in large portion condition. 2 - 3y-294(123); 5 - 6y-543(179); 8 - 9y-700(252) 2 - 3y-229(145); 5 - 6y-540(179); 8 - 9y-641(268) 2 - 3y-276(135); 5 - 6y-640(178); 8 - 9y-641(268) 2 - 3y-276(135); 5 - 6y-640(128); 8 - 9y-640(108) 3 - 2 - 3y-276(135); 5 - 6y-640(128); 8 - 9y-640(108) 3 - 3y-729%(21); 5 - 6y-443%(14); 8 - 9y-18%(13) Decreased entree triate and energy intake only among those with who ale more in large entree condition. Increased in 67% of children in large size condition; bite size increased as protion size increased.		None.	e ir tt o a o s ir	effect of age on intake on 2-9 yr old children, on the children, on the children of the children of the children on the children on the children of the childr	10.13. In this study of the effect dage on intake in 2-9 yridd will dage on intake in 2-9 yridd will hildren, there was no age effect or entered consumption, bits size at entered consumption, bits size and interest of the construction of the cons
17381944 Reinaerts E	Increasing children's fruit and vegetable consumption. distribution or a multicomponent programme?		Q5 (RF9) T	Fine Code (ec	nomunity Non	ne 9 mv	o 9	interve	re the effects of 2 school-bandinos on children's intake of children's i	fruit parents (Parental 6 Family Caregiver	Primary school children	Mean age (SD): 9.0 yr (2.3) Boys: 48.5%	1,730 parents (939 parents) 6 schools (NR)	Behavioral	Arm 1: Free fruit and vegetable distribution at school (Free) Every school day, all children were provided with 1 serving of fruit (22blws; fruit juice (12blws) or raw vegetables (22blws). Arm 2: Multicomponent school-based program consisting of a classroom curriculum and perental involvement (MC) Children received a lunchbox that wat especially designed to bring fruit and vegetables to school the children's age Children's age Recurrent enewsiters and homework activities were taken home by children to molivate parents to create a home environment that facilitates fruit and efforts (e.g., displaying posters with project mascots at local supermarkets were also used to remind parents to buy fruit and vegetables	5 3 3	1.168 children from 6 other schools were used as a reference group (CON)	Mean fruit consumption [portionard (SD)] Mean vegetable consumption [g/d (SD)] Mean vegetable snacks [times/d (SD)] Mean vegetable snacks [times/d (SD)] Mean 24-hr fruit, juice and vegetable infalse [times/d (SD)]	Free: 1.3(9.9) to 1.5(0.9) vs CON: 1.2(0.7) to 1.2(0.7) MC: 1.3(0.8) to 1.5(0.8) vs CON: 1.2(0.7) to 1.2(0.7) MC: 1.3(0.8) to 1.5(0.8) vs CON: 1.2(0.7) to 1.2(0.7) MC: 1.3(0.8) to 1.5(0.8) vs CON: 1.2(0.7) to 1.2(0.7) MC: 1.3(0.8) to	5** 5** 5 5 5	None	p or fr s s in w in fr fr fr	program and a multi- component in intervention increased in ruit intake in middle school children. In subsets, the nterventions were	110.13. Both a free F & V rogam and a multi-component free vertical formation of the multi-component free vertical formation of the multi-component free vertical formation of the multi-component free vertical formation where the interventions were antiably effective in crossating egi intake and overrall. Some vegetable intake over vegetable intake over the multi-component free vegetable intake over the vegetable intake ove

PMID First Autho	r Title	Year Study Type CVD	RF by CQ	Country	Setting	Blinding	Int Length	Fotal Study Main Study Objective	Total N Target Population	Eligibility Criteria	Patient Characteristics	Int. n at Baseline (n at Final Follow-up)	Int Type	Specific Intervention	Control n at Baseline (n Final Follow-up)	at Specific Control	Outcomes Measured	Results/CI	Significance S (p<0.05 or non-overlapping CI); S* (p<0.01); S** (p<0.001); NS (p≥0.05 or overlapping CI)	Safety and Adverse Events	s Additional findings	Summary	Main Reported Findings by Critical Question
17411463 Haerens L	The effects of a middle-chool healthy identify identify the earling intervention on adolescents fat and flut intake and soft drinks consumption	9007 RCT None	Q13 (RF9)		mmunity No	9 mx	9	mo Evaluate the effects of a middle-chool healthy evering promotion intervention combining environmental changes and computer-clairoed feedback, with and without an explicit parent involvement component	2,840 (15 Parental/ schools) Family/	11-15 yr Students in schools offering technical or vocational training	Mean age (SD): 13.1 yr (0.81) Boys: 63.4% Lower SES: 67.5%	10 schools (NIR)	Behavioral	Arm t. Healthy eating intervention with parental support (INT *) Goals of healthy eating intervention included increasing first consumption to at least 2 pieceasis; refused increasing first consumption and increasing soft drike consumption and increasing soft drike consumption, and reducing soft unitake enumption, and reducing soft unitake enumption, and reducing soft unitake enumption, and reducing soft subsequent soft and furth unitake advice. Environmental strategies and policy changes to help increase the existence of the subsequent soft healthy food producing soft healthy food producing supportive. Purpose invited to an interactive meeting and completed an adult computer intervention, parents were asked to discuss the deltary advice from the computer intervention, parents were asked to discuss the deltary advice from the computer intervention with children and to support their children and the support their children and	5 schools (NR)	Control Arm. Control condition (CON) No details provided regarding Control Arm	Mean fat intake (g/d (SD)) Il Mean fat intake (%E (SD)) Mean percentage exceeding fat intake recommendations (% (SD)) Mean full intake (pleces/kv (SD)) Mean percentage not meeting full intake recommendations (% (SD)) Soft drinks (glasses/d(SD)) Water (glasses/d(SD))	INT -: 111(48) to 105(49); INT: 130(54) to 127(56); CON: 108(46) to 104(46) to 104(46) to 104(46) to 35.7(16.3) to 35.1(16.1); INT: 43.7(18.1) to 40.2(17.8); CON: 39.4(16.2) to 36.7(16.7) No significant intervention effects on any of these outcomes.	NT +: S** for girls only INT +: S** for girls only NS	None	None	diet education and increased fruit availability led to a decrease in fat intake in adolescent girls who	O10.13. Computer-silvers freedack piles setably det education and increased fluit education and increased fluit walleability eld education and increased fluit fall individual education and increased fluit fall individual education and increased fluit fall individual education and individual educ
17411463 Haerens L	The effects of a middle-school healthy eating intervention on adolescents fat and fruit intake and soft drinks consumption	007												Arm 2: Healthy eating intervention without parental support (INT) Arm 2 received an identical healthy eating intervention to Arm 1; however, the parental component was not included for Arm 2									
17451613 Henry CJK	Effects of long-term intervention with tow- and high-glycaemic-index towards and high-glycaemic-index breakfastes or rood intake in children apod 3-11 years	007 RCT None (crossover)	Q10,13 (RFS, RF9)	United Cor Kingdom (acl	mmunity No	10 w	Ir W P ir P W si (i d r r c c ir	I wik Investigate the effects of long-term intervention of love-glycemic index (ci) cutofat it with the manufact each representation of love-glycemic index (ci) and acconstraint intakes in children and account intervention and of of other ceive ceive intervention of the manufactor	38 Pediatric Young Adults	8-11 yr	Boys: 11	38 (29)	Behavioral	Intervention 1: High-Gi breakfast High-Gi breakfast included cereal with whole milk or bread with low-file spread and jam, low-sugar fruit squash, and 1 teaspoon of glucose powder Intervention 2: Low-Gi breakfast Low-Gi breakfast included cereal with whole milk, porridge, or says and intervention milk, porridge, or says and intervention milk, porridge, or says and first judges jam, and unsweetened first judges	NIA	N/A	Mean body weight change over study period [kg (SD)] Mean energy intake at lunch following test breakfasts [kcal (SD)] Mean energy intake over 24 hr of study days [kc (SD)] Mean protein intake at lunch following test breakfast [kcal (SD)] Mean protein intake at lunch following test breakfast [kc] (SD)] Mean OHO intake at lunch following test breakfast [kc] (SD)] Mean fat intake at lunch following test breakfast [kc] (SD)] Mean protein intake at lunch following test breakfast [kc] (SD)] Mean protein intake over 24 hr of study days [g (SD)] Mean OHO intake over 24 hr of study days [g (SD)] Mean fiber intake over 24 hr of study days [g (SD)] Mean fiber intake over 24 hr of study days [g (SD)]	No difference in any of these variables relative to GI breakfast. stats s [g stats]	S** NS (p=0.406) NS NS	None	Children increased body weight to be weight to during high GI period compared with low GI period.	and high-GI breakfasts had no effect on subsequent calorie intake over the next 24	Q10,13. A long term intervention with low- and high-GI breakfasts with low- and high-GI breakfasts classified in the control of the control o
17451613 Henry CJ	Effects of large-term intervention with 2 server and 1 se	0007															Mean energy intake from 3-d food diary [k; c8]. Mean protein intake from 3-d food diary [g; (SD)]. Mean CHO Intake from 3-d food diary [g; (SD)]. Mean fat Intake from 3-d food diary [g; (SD)]. Mean fater intake from 3-d food diary [g; (SD)]. Mean body weight change over study period [kg; (SD)]. Mean body weight [%]. Mean change in body weight [%]. Mean change in BMI [%].						
17473086 Ebbeling CB	Altering portion sizes and eating rate 2 to attenuate gorging during a fast food meat: effects on energy intake	007 RCT None (crossover)	RF13 (RF9, RF11)	USA Cort	mmunity Ott	her 1 d	a	d Evaluate whether altering portion sizes and eating rate could decrease energy and 2 follows and adding an extra-large fast food at 2 follows that of the could be a fair and a food at 1 for the could be a fair and a fai	Young Adults	13-17 yr BMI > 80 th percentile Reported eating fast food ≥ 1±/wk Exclusions. Snoking ≥ 1 digarette in the past wk. Taking any prescription medication that may affect food eating.	Mean age (SEM): 15.3 yr (0.3) Males: 4 Hispanic or Latino: 1 White: 3 Black: 11 Race not reported: 3 Patient characteristics available only for participants who completed the study	20 (18)	Behavioral	Intervention 1: Fast food meal presented as 1 large serving at a single time point of the fast food meal portoned ind of smaller servings presented at a single time point Intervention 2: Fast food meal portoned ind of smaller servings presented at 15 - Fast food meal portioned into 4 smaller servings presented at 15-min intervals of chicken muggets. French fries, and cole plus condiments; total amount of each liem other than condiments was amount consumed during a baseline meal assessment	NIA .	N/A	Mean energy intake [k.J (SEM)] Mean energy intake relative to total daily energy expenditure(% (SEM)]	STD: 5552(357) vs SmServ/Delay: 5762(500) vs SmServ: 5321(433) vs STD:51.9(3.5) vs SmServDelay: 53.0(4.3) vs SmServ: 46.2(4.0)	NS NS	None		rate had no effect on	RF13: Portioning menu tema and slowing the esting rale had solving the esting rale had a fast food meal in adolescents.