NHLBI Evidence Table: RF4-MA

PMID First Au	ithor	Title Ye	ar Study Type	CVD	RF by CQ	Study Origin Setting	Search Rang	e Data Sources	Study Eligibility Criteria	Number of Studies	Main Study Objective	Study Pop. Targ	get Patient Characteristics	Study Characteristics	Interv. Type	Specific Intervention Examined	Observational Relationship Assessed	Outcomes Measured	Treatment Effect and Statistical Significance	Main Reported Findings by Critical Question	Limitations of Studies Reviewed	Quality of MA
15615909 Martin RN	pressu	feeding in infancy and blood 2009 re in later life: systematic and meta-analysis	5 MA	None (Q6 (RF2, RF4)	UK Don't know/NR	Through Ma 2004	y MEDLINE EMBASE	Studies in which having been breastfed in infancy was compared with bottle (artificial) feeding	studies (17 I timates)	Estimate the mean difference (standard error) in BP between breastfed and bottle- fed subjects	7,503 Pediatric Young Ar	Year of birth of subjects dults range: 1918-1994	NR	Behavioral	NR	Breastfeeding and BP later in life	SBP DBP	Mean SBP was lower among breastfed infants (mean difference: –1.4 mmHg; 95% CI: –2.2 to –0.6; p: 0.001). There was also evidence of marked heterogeneity between studies (y2: 42.0, P < 0.001)	Q6: Studies that formally tested for interaction found little evidence of sex differences in the association between breastfeeding and SBP and DBP	Publication bias Possibility of selection bias	
				1 1	213 (RF4)			Manual searches of reference lists	Studies in which SBP or DBP was measured as an outcome Studies in which an estimate of the mean difference in BP between threats and bottle-fed groups could be extracted from the article Studies with human subjects Exclusions: Studies presenting duplicate data Studies were authors were unable to extract an estimate of mean difference (breast minus bottle). Studies in which breast versus bottle feeding was not investigated Studies in which BP was measured in infancy. Studies in which BP was measured in infancy.										In a straffled meta-analysis, a smaller effect of breastfleeding on later SBP we observed in the larger studies in x 1,000 (ofference: -0.6 minks 58°C. colored in the larger studies in x 1,000) (ofference: -0.6 minks 58°C. colored in x 2,000) (ofference: -0.6 minks 58°C. colored in x 2,000) (ofference: -0.6 minks 58°C. colored in x 2,000) (ofference was unlikely to due to chance (P. 0.02). There was evidence of heterogeneity in models restricted to small studies (p.2°C. x 1,000) for the severedence among the 4 larger studies (p.2°C. ofference: 0.6 minks 1,000) (ofference: 0.6 minks) (ofference: 0.7 minks) (ofference: 0.6 minks) (ofference: 0.7 minks) (ofference: 0.9 minks) (offere	s Q11, Q13: Breastfeeding was associated with a 1.4- and 0.5- mmHg reduction in SBP and DBP, respectively, although s: differences in SBP between feeding groups were reduced in large (difference; -0.6 mmHd). compared with smaller (difference; -2.3	Retrospective reporting of exclusive or any breastfeeding	
15615909 Martin RM	pressus review	eeding in inflancy and blood 2001	5																For SBP, there was little evidence that heterogeneity was explained by reliance on material recal of twestdesding (P. 0.9), age at measurement of BP (P. 0.8), whether breastfeeding was exclusive for at least 2 months (P. 0.8), method of BP measurement (P. 0.2), or proportion of the target population included in the main analysis (P. 0.9). The protect mace in DP was lower among breastfest indirect (difference: -0.5 mm/stq. 95% CI: -0.9 to -0.04, P. 0.03). There was less evidence of heterogeneity between estimates (y.2. 20.2; P. 0.06) than in the analysis of breastfeeding and SBP. The effect of harasteeding on later OBP was similar in the 4 larger studies (p. 1.000) (difference: -0.6 mm/stq. 95% CI: -0.9 to -0.04; P. 0.01). The manufaction of the protection o			
	review	re in later life: systematic and meta-analysis																	-1.7 mmHg (85%, C1 -4.0 to 0.6; P. 0.15), although there was some evidence of heterogeneity (2: 118; P. 0.04). The poled DBP difference in inflancy associated with breastfeeding was -1.1 (95%, C1: -4.0 to 1.8; P. 0.4; χ2: 8.2; P. 0.04)			
17000923 He FJ	importunitation di pina di pin	ance of slat in determining consequence of slat in determining consequence of controlled trials of controlled trials	MA MA	None C	213 (RF4)	UK Dent Know/NR	MEDLINE: 1966-Janual 2006 EMBASE: 1980-Janual 2006	Cochrane Library	Participants ≤ 18 yr 10 Studies aimed to reduce salt intake Infa	initiden and lolescents:	a b S	Pediatric Monay Autoria (Managara) (Managara	zi Median age: Children and adolescents: 13 yr	RCTs: 11 Controlled trials: 2	Behavioral	Reduced salt diet	NA .	Change in salt intake SBP DBP	The median net change in sall intake for 9 out of 10 trials in children and adolescents was a reduction of 42% (interpratine ranger-558)). The pooled analysis for children and adolescents showed a significant resolution in both SSP and SBP with a reduction in sall trialse. The net change in SBP was -1.17 mmHg (69% CL -1.78 to -0.56; P < 0.001) and it was -1.29 mmHg (1-94 to -0.65; P < 0.001) to DBP. There was no significant heterogeneity between studies (P · 0.64; P · 0.06) for SBP; P · 0.00, P · 0.06; P < 0.001) and it was -1.29 mmHg (69% CL -2.00 to -0.14; P · 0.02) for DBP. There was no significant heterogeneity between studies (P · 0.64; P · 0.06; SC -2.00 to -0.14; P · 0.02) for DBP. There was no significant heterogeneity between studies (P · 0.06; P · 0.06; F · 0.06; CD -2.014; P · 0.02) for DBP. There was no significant heterogeneity between studies (P · 0.06; P · 0.06; F · 0		NR	
18559702 Chen X	childho	of blood pressure from 2008 to additional systematic and meta-regression analysis.	MA	Two ic	25 (RF4) 28 (RF4)	USA Clinical	Jan 1970 - Jul 2006	PubMed	Cohort studies examining BP tracking from childhood to adulthood. Studies published between Jan 1970 & July 2006. BP tracking correlation coefficients reported. Cohort's baseline age <18 yr. Sample size > 50 Studies published in English, Chinese or Japanese.	studies :	Systematically evaluate epidemiological evidence on BP tracking from childhood to adulthood.	Pediatric Young Ai	z/ < 18 yr at baseline ddults	US: 29 Europe: 11 Asia: 6 Other: 4 Length of follow-up ranged from 0.5 to 47 years. Recorded BP once pe visit: 3 studies Recorded BP twice pe visit: 11 studies Recorded BP 3+ time BP of the pe bid not provide detailed information: 1	er	N/A	Serial BPs Gender Baseline age Length of follow-up Number of BP measurements per visit Ethnic/population difference	SBP DBP	BP tracked moderately self from childhood to adulthood with correlation coefficients ranging from -0.12 to 0.80 for SBP with a mean of 0.38; and -0.16 to 0.70 for DBP with a mean of 0.38; and -0.16 to 0.70 for DBP with a mean of 0.38; and -0.16 pt 100 for DBP (mS**). The strength of BP tracking decreased as follow-up duration increased, 0.008 for SBP(pS**) and 0.005 for DBP(pS**). Shrength of correlation did not vary significantly with the number of measurements. BP tracking did not significantly vary acroes racei-population groups. There was tills was difference in SBP tracking, but men had stronger DBP tracking than women.	mean of 0.38; and -0.16 to 0.70 for DBP with a mean of 0.28. QS. BP tracking did not significantly vary across race/population croups.	Potential selection bias (C) Inability to study additional predictors or adjust for some potential confounders	iood.