NHLBI Evidence Table: RF7-OB

PM	IID	First Author	Title Year	Study Type	Prospect./ Restrospect.	Study	CVD	RF by CQ Coun	try Setting	Main Study Objective	N at Baseline (N at Follow-up)	Target Population	Eligibility Criteria	Patient Characteristics	Study Groups	n at Baseline (n a Follow-up) for Study Groups	Total Follo		Results	Main Reported Findings by Critical Question
15802	624 Zie	eske AW	Elevated serum C-reactive protein 2005 (levels and advanced atherosclerosis in youth.	CrS	Retrospective	PDAY	(F	11 USA RF4,5,7,8,10,14) 12 RF4,5,7,8,10,14) 14 RF4,5,7,8,10,14)	Clinical	Determine the association between CRP, CV RFs and atherosclerosis at autopsy in children & young adults.	1,244	Pediatric/ Young adults	All cases from the PDAY study for whom CRP levels and all CV RF measurements were available.	3.201 15-34 y olds who died accidentally in 15 different cities in the U.S.; information on age/ gender/ lipids/ smoking / HTN / obesity / hyperglycemia was available. For this study, 45% white(W), 55% black(B); 26%female(F), 74% male(M).		N/A	N/A	with fatty streaks and raised lesions was evaluated and AHA grading (grades 1-6) of stained sections of CAs and abd Ao performed. C-V RFs: Gender	CRP levels increased with age and were higher in Fs than Ms; there was no difference between Bs & Ws. CRP was significantly associated with obesity (p=S) and with hyperglycemia (p=S**); it was higher in cases with low HDL after age 25. After accounting for CV RFs, elevated CRP was associated with a greater extent of raised lesions in the RCA after age 25 and in the AA after age 30, with a greater prevalence of grade 5 lesions after age 25.	Q1.2.4. Atherosclerosis begins in childhood and advanced lesions are associated with elevated CRP after age 25, independent of traditional RFs.
16728	658 Ju	ionala M	Childhood C-reactive protein in 2006 or predicting CRP and carotid intima-media thickness in adulthood: the Cardiovascular Risk in Young Finns Study	Cohort	Prospective	Young Finns	G (F G (F G	11 Finland RF4,5,7,8,10,14) 22 RF4,5,7,8,10,14) 33 RF4,5,7,8,10,14) 44 RF4,5,7,8,10,14) 88 RF4,5,7,8,10,14)	Community (other)	(1) Evaluate whether CRP in childhood predicts CRP in young adult life (2) Evaluate which childhood RFs including CRP predict carotid IMT in young adults	1617	Pediatric/ Young adults	Young Finns study who had CRP performed in 2001 as	Finnish cohort enrolled at 3-18 yr of age in 1980 and followed with serial RF evaluation over time. At 24-39 yr of age, group underwent evaluation of carotid IMT and reassessment of CRP. 43% F; all W.	N/A	N/A	21 yr	BMI Sum of skin folds (SSFs) BP Smoking status TC	increased adult carotid IMT included elevated BP (p=S**), high LDL	presence of RFs. Q3. Atherosclerosis-related target organ