PMID	First Author Title Year	Study	CVD RF by CQ	Study Origin	Setting	Search Range	Data Sources	Study Eligibility Criteria	Number of Studies	Main Study Objective	Study Pop.	Target Population	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
8499627	Bruvold WH A meta-analysis of adolescent smoking prevention programs 1993	MA N	Q13 (RF10)	USA (Community	NR	NR	Studies must have "exemplary" or "defensible" use of appropriate comparison groups, appropriate protests, postless, and follow-up assessments, control of research attition, validity of dependent variable assessment, and use of statistical procedures appropriate for program evaluation research	9 48 I	Determine the efficacy of school based smoking prevention programs		Pediatric Young Adults	NR	NR	Behavioral	Smoking prevention I	N/A	Smoking knowledge and behavior	outcome measures. The only exceptions were the 2 vote-count analyses of studies falling in the social reinforcement classification. Results for attitude were generally not as positive. Programs classified as primarly social reinforcement-oriented seem to have had the most impact on attributes, followed by those classified as primarly evologomental Eachavoral effect sizes for programs with social reinforcement and social normo orientations were consistently positive and significant, those for programs with developmental orientations were mixed in sign and usually not significant for both orientations were mixed in sign and usually not significant for both orientations were mixed in sign and usually not significant for both orientations were mixed in sign and usually not significant for both orientations, and those for programs with review of sometimes with the properties of the significant for the significant for both orientations, and the significant for the significant forms of the significant forms of the significant forms of the significant for the significant forms of the significant forms	Q13: Behavioral effect sizes were found to be largest for interventions with a social reinforcement orientation, moderate for interventions with either a developmental or a social norms orientation, and small for interventions with the traditional rational orientation.	NR
8822401	Rooney BL A meta-analysis of smoking prevention programs share readjustment for errors in the unit of analysis.	MA N	Q13 (RF10)	USA	Community	1974-1991	Index Medicus MEDLINE Psychological Abstracts Current Contents Bibliography on Smoking and Hea Article bibliographies	School-based studies Studies with control/comparison groups Intervention taking place in 6th through 12 grade	interventions (90 studies)	Test the basis for the prevailing when the psychoscal approaches to smoking prevention are effective	NR	Pediatric/ Young Adulth		0 mo to postlest measurement: 105 studies 1-12 mo to postlest measurement: 19 studies 13-72 mo to postlest measurement: 19 studies 13-72 mo to postlest measurement: 7 studies studies 14-72 mo to postlest studies 15-72 mo to postlest 15-72 m	Behavioral	Smoking prevention I	N/A	Effect size of smoking	The magnitude of the average effect size changed little as a result of the adjustment for the estimated intractas correlation in those studies that analyzed their data at the wrong unit of analysis. The unadjusted effect size was only the state of the	Q13: The average effect sizes found in the adjusted meta-analysis were small (on the order of c10; 10). While the average effect sizes were modest, the results from this meta-analysis suggest that the impact of the peer or social programs may be improved if they are delivered early during the transition from elementary to middle delivering the intervention program, if they are part of a multicomponent health program.	Limited to school-based
10707438	Derzon JH Predicting tobacco use to age 18: 1999 a synthesis of longitudinal research	MA N	GS (RF10)	USA I	Don't know/NR	NR	DAI ERIC MEDLINE Mental Health Abstracts NCJRS PsycINFO Social SciSearch	Studies containing data on the relationship of some behavior, characteristic or experience with concurrent or later use of tobacco measured at or before age 18	64 studies (106 publications) i	Synthesize the available evidence on predictors of adolescent tobacco use	145,750	Pediatric/ Young Adults	NR	NR	None	N/A F	Predictors of tobacco use and smoking	Effect size of predictors of tobacco use	Prior tobacco use Mean effect size: 0.519 P-value: 0.000 Peer tobacco and substance use Mean effect size: 0.397 P-value: 0.000 Marijuana use Mean effect size: 0.378 P-value: 0.000 Marijuana use Mean effect size: 0.351 P-value: 0.000 School commitment/performance Mean effect size: 0.351 P-value: 0.000 School commitment/performance Mean effect size: 0.249 P-value: 0.000 Illicit drug use Mean effect size: 0.241 P-value: 0.000 Tobacco attitudes and expectations Mean effect size: 0.291 P-value: 0.000 Commiss behavior Mean effect size: 0.226 P-value: 0.000	Q8: Current use of tobacco and other substances by youths, and use among their peers, showed stronger relationships with later tobacco use than other examined predictors	Majority of studies conducted in US Relationships reported were overwhelmingly cross-sectional Fewer than a third of the studies reported results on the conditional probabilities between risk factors and tobacco use
10707438	Derzon JH Predicting tobacco use to age 18. 1999 a synthesis of longitudinal research																		Problem behavior Mean effect size: 0.182; P. 0.000 Psychological characteristics Mean effect size: 0.123; P. 0.070 Parent tobacco and substance use Mean effect size: 0.195; P. 0.070 Personal skills and knowledge Mean effect size: 0.101; P. 0.000 Male gender Mean effect size: 0.029; P. 0.000 Family features and experiences Mean effect size: 0.058; P. 0.004 Social ties Mean effect size: 0.080; P. 0.000 SES Mean effect size: 0.034; P. 0.000 Minority race Mean effect size: 0.034; P. 0.000 Minority race Mean effect size: 0.034; P. 0.000 Minority race Mean effect size: 0.034; P. 0.416		
15539543	Hwang MS A meta-analysis of adolescent psychosocial smoking prevention programs published between 1978 and 1997 in the United States	MA N	Q11 (RF10) Q13 (RF10)		Multiple settings	1978-1997	ERIC MEDLINE PsycINFO Sociological Abstracts Psychological Abstracts Article bibliographies	combined smoking prevention programs available to traditional students (exclude treatment programs for high-risk youths or addicted cigarette users) in the US Programs with psychosocial theory-based approaches toward tobacco use Students from 6th to 12th grade Tobacco-only prevention programs or substance prevention programs including tobacco Studies with at least 1 control or comparison group that have pretest and/or posttest scores Studies that report quantitative measures on self-reported outcomes such as knowledge, attitudes, skills, and/or tobacco use behaviors Studies with a comparison (control) group in the program that did not receive another type of	(75 articles) a	Estimate average effects of adolescent psychosocial memoring prevention programs and investigate the relative efficacy of program types	NR	Pediatric/ Young Adults	Age range: 6-12th s grade	NR		Smoking prevention program based on social influence modality from the program based on cognitive behavior modality. Smoking prevention program based on life skills modality. School-based smoking prevention program based on life skills modality. School-based smoking prevention program school-community-incorporated smoking prevention program.	N/A	Overall program impact on smoking behavior, knowledge skill, and attitude. Relative efficacy of program modality and setting Effect size variability	Knowledge had the highest ES (0.53) at short-term (\$ 1 yr) but rapidly decreased (0.19) at long-term (> 1 yr). Behavioral effect was the most meaningful, being persistent over a 3-yr period (0.19 at \$ 1 yr, 0.18 at 1-3 yr)		Publication bias Selection bias
16855966	Thomas R Schook-based programmes for preventing smoking 2006	MA N	Q13 (RF10)	Canada	(schools)	10/2005 ERIC: 1982- 10/2005 Tobacco Control: 1992-2005 Journal of Smoking Related Disorders:	EMBASE PsycNFO ERIC CINAHL Health Star Controlled Trials (CENTRAL) and Cochrane Tobacco Addiction Grou, Specialized Register	psychosocial program Types of studies: RCTs in which individual students, classes, schools, or school districts were randomized to the intervention or control groups and followed for at least 8 mo Types of participants: Children (aged 5 to12 yr) or adolescents (aged 15 to15 yr) in school settings Types of interventions: Classroom programs or curricula, including those with associated family and community interventions, intended to deter use of tribacco. Types of outcome measures: Prevalence of non-pris smoking at follow up among those not smoking at baseline	Of the 94 RCTs, 23 were classified as high-quality studies	Review all RCTs of behavioral interventions in schools to prevent children and and adolescents starting smoking smokin		Pediatric/ Young Adult		93 single country studies (USA 66; Canada 6; Netherlands 5; Italy 3, Australia, Germany, Norvay and the UK 2 each; and Finland, France, India, Mexco and Spain 1 country study included Demmark, Finland, the Netherlands, Portugal, Spain and the UK	Behavioral	Information-giving curricula Social competence interventions Social influence interventions Social influence interventions Social competence + social influence interventions	N/A	Prevalence of non-smoking at folious up among flose not smoking at baseline not smoking at baseline	(OR 0.93; 95% CI 0.84 to 1.03), and a negative (NS) effect in the long term (OR 1.19; 95% CI 0.99 to 1.42). Analyses including only high quality trials showed a negative (NS) effect in the short term	programs that provide information only Q13: The most widely used school interventions draw on social influence models. Although half of the high quality RC1s found possible significant results, here is conflicting evidence about po- sult of the significant results, here is conflicting evidence about bed as ocial influences model. the Hutchison Smoking Prevention Project, found no evidence of a sustained effect on smoking prevalence. Q13: 3 of the 4 high quality multi-modal interventions showed a	accounts for clustering and for attrition. Other important issues include ensuring faithful implementation of the intervention, and taking account of previous research in defining the intervention

NHLBI Evidence Table: RF10-MA

PMID	First Author	Title		Study Type CV	,	Origin		Data Sources	Study Eligibility Criteria	Number of Studies	Main Study Objective	Study Pop.	Population	Patient Characteristics	Study Characteristics	s Interv. Type	pe Specific Intervention Examined	Observational Relationship Assessed	Outcomes Measured	Treatment Effect and Statistical Significance	Main Reported Findings by Critical Question	Limitations of Studies Reviewed	d Quality of MA
17054164		Tobacco cassation interventions for young people	2006 M.	A None	Q10 (RF10)	UK	2006 PsycINFO: 1872- 2006 CINAHL: 1982-	Specialized Register Cochrane Central Register of Controlled Trials MEDLINE EMBASE PsycINFO	Interventions designed to meet the needs of youn people aged 20 yr or under (if a study included participants beyond the top threshold of 20 yr, study was included if the mappint of participants were aged less than 20, and if the design of the program specifically considered the needs of young people. RCTs, cluster RCTs, CTs, and control interventions; studies that compared 2 different cessation interventions or combinations of interventions were also included. Participants must be regular tobacco smokers (at least 1 cigarette/wk) Intervention may also be aimed at the organization to which the young person is attached Exclusions: Interventions specifically targeting young women in pregnancy Any program aimed primarily at the adult population Smoking prevention programs	1	Evaluate the effectiveness of strategies that help young people to stop smoking tobacco	-,	Pediatric/ Young Adults	NR	RCTs: 6 Cluster RCTs: 7 CTs: 2	Multiple Intervention:	Transtheroretical model (stages of change) Nn approach Pharmacological aids to quitting (i.e., nicotine replacement, bupropion) Psychosocial interventions (e.g., molivational enhancement, behavioral management)	N/A	Smoking cessation	1.70 (6% Ct. 1.25 to 2.33) persisting at 2-yr follow up with an OR of 1.38 (195% Ct. 0.99 to 1.92) 2 trials tested pharmacological aids to quitting (nicotine replacement and bupropion). Neither trial achieved statistically significant results (data not pooled), but both were small-scale, with low power to detect an effect The 3 interventions (5 trials) which used cognitive behavioral therapy interventions did not individually achieve statistically significant results, atthough when he 3 Not or Tobaco trials were pooled the OR 1.87 (6% Ct.	persistence of abstinence, but there is not as yet sufficient evidence to recommend widespread implementation of any 1 model. It appears that the Not on Tobacco program is at least as effective as other interventions, but a major issue for this program is that the meaningfulness of the definition of cessation (1 d or more) must be challenged when compared to the episodic nature of patterns of smoking of young people. There is currently little	An absolute measure of coesation is, in practice, impossible, as it would require life-long folious up of subjects inconsistent definition of quittin Several studies underpowered (wide Cls)	ng