Studies Reporting Significant Results

	Abstinence Program	Author(s)	Publication	Peer Reviewee	Program Population	Evaluation Design	Statistical Method	Behavioral Outcome Measured	Findings*																					
I	Abstinence- only	Jemmott et al	Archives of Pediatrics and	J 🗸	6th and 7th grade students in four	Randomized controlled trial. Study randomly assigned students to receive an 8-hour abstinence-only	Generalized linear	Initiation of sexual activity Recent sexual activity	Positive Positive																					
	intervention	(2010)	Adolescent Medicine		schools serving low-	promoted contraception only, an 8- or 12-hour	regression and Poisson	(last 3 months)																						
					income communities in a northeastern city (N=662)	comprehensive sex education program that contained both abstinence and contraception content, or an 8 hour general health intervention without any sex	generalized estimating	Multiple sexual partners Unprotected sex in the last 3 months	NS																					
					City (IN-002)	education content, which served as the control group. Students were surveyed over 24 months.	equations	Consistent condom use	NS																					
2	Reasons of the Heart	Weed <i>et</i> <i>al.</i> (2008)	American Journal of Health Behavior	~	7th grade students in suburban Northern Virginia (N = 492).	Quasi-experimental. Study controlled for pre- intervention differences between program participants and nonparticipants. Limitations to the study's design include observed differences between program group and control group, although the study accounted for these differences and the possibility of unobserved differences between the two groups.	Logistic regression	Initiation of sexual activity	Positive																					
3	Sex Can Wait	Denny and Young (2006)	Denny Journal of nd Young School Health 2006)	~	Upper elementary, middle school, and	Quasi-experimental. Pretest, posttest, and follow-up surveys were conducted on program youths and	ANCOVA and logistic	Abstinence (overall) Upper elementary	NS																					
							high school students from 15 unspecified school districts	on nonparticipants. As the authors noted, limitations include the reliability of the scaled measures,	regression	Middle school	Short term: NS; 18 months: positive																			
					school districts (upper elementary: N = 295; middle	group contamination.		High school	Short term: positive 18 months: NS																					
					school: $N = 595$;			Abstinence (last 30 days)																						
					high school: N = 279).			Upper elementary	Short term: NS; 18 months: positive																					
																														Middle school
																High school	Short term: positive 18 months: NS													
4	Heritage Keepers	Weed et al. (2005)	Paper presented at a conference sponsored b HHS-OPA	У У	7th through 9th grade students from 34 South Carolina schools. The sample con- sisted of students from a variety of demographic and geographic back- grounds (N = 1,535).	Quasi-experimental. Pretest, posttest, and 12-month follow-up surveys were conducted. The authors noted limitations such as high attrition and unobserved differences between program group and comparison group.	Logistic regression	Rate of sexual initiation	Positive																					

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* "Positive" indicates positive outcomes in the desired direction, e.g., delayed initiation of sexual activity, reduced levels of recent sexual activity, or fewer sexual partners. "NS" indicates non-significant results. "Negative" indicates adverse outcomes. Findings are statistically significant at or above the 95 percent statistical confidence level.

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5 For	5 For Keeps	Boraskwi et <i>al.</i> (2005)	oraskwi American al. Journal of 005) Health	~	7th and 8th grade stu- dents from five urban and two suburban middle	Quasi-experimental. Pretest and 16- to 25-week follow-up surveys were conducted. Program group and control group were comparable. The authors	Binary logistic regression	Sexual activity between the pretest and posttests All students ($N = 2,069$)	NS	
			Benavior		schools in the Midwest (N = 2,069).	small size effects that might be influenced by measurement issues, an evaluation model more suited for traditional sex education programs a	or linear regression	Sexually inexperienced students at the pretest (N = 1,462)	NS	
						sample that is not representative of all 7th grade students, potential contamination between program participants and non-program participants, one-time		Sexually experienced students at the pretest (N = 439)	NS	
						outcomes, and a follow-up interval that was less than six months.		Among students who re- ported having engaged in sexual activity during the study period (N = 311) Frequency	Positive	
										Multiple encounters (> 6 versus < 5)
								2+ sexual partners	Positive	
6	6 Best Friends	Lerner (2005)	Adolescent and Family Health	~	Program participants included 6th–8th grade girls from six of the 20 middle schools in the District of Columbia. Comparison data came from a survey of middle school youths in the District in general (N = 2,730).	Pretest and posttest with comparison survey data. The study controlled for age, school grade, and race and ethnicity of the respondents and conducted further analyses that tested alternative explanations for the results. One significant limitation of the study is its use of survey data as comparison data.	Logistic regression	Initiation of sexual activity	Positive	
7	7 Not Me, Not Now	Doniger et al. (2001)	Journal of Health Communi- cation	~	Middle school and high school students in Monroe County, New York (N = 1,395 to 1,737 for sexual initiation).	Cross-sectional time series. Data on sexual initiation rates came from the Youth Risk Behavior Surveys for Monroe County, NY. Data on pregnancy rates came from the New York State Department of Health, Office of Vital Statistics. Sexual initiation rates in 1992 (pre-program), 1995 (second year of program), and 1997 (fourth year) were compared. Pregnancy rates from 1993–1996 were compared among Monroe County, two counties in upstate and western New York and New York state. Having only one pre- intervention data point is a limitation of the study.	Test of difference in propor- tions; chi- square for trend test; t-test for differences in regression slopes	Rate of sexual initiation Pregnancy rate	Positive Positive	

* See first page of Appendix.

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8	B Abstinence by Choice	Weed (2001)	Report to Arkansas Department of Health		7th through 9th grade students in Little Rock, AR (N = 329).	Quasi-experimental. Pretest and 12-month posttest were conducted. The study did not control for differences between program and control groups, which is a major limitation.	Test of difference in initiation rate	Rate of sexual initiation	Positive			
ç	HIV Risk- Reduction Intervention	Jemmott e <i>t al.</i> (1998)	Jemmott <i>et al.</i> (1998)	Jemmott <i>et al.</i> (1998)	JAMA	JAMA	~	6th and 7th grade African–American youths in Philadelphia. Students attended schools	Experimental. Pretest and 3-, 6-, and 12-month follow-up surveys were conducted. Youths volunteered to participate in a weekend health promotion program, and volunteers	Analysis of covariance and logistic regression	Sexual activity in the last 3 months 3-month follow-up	Positive (vs. control) NS (vs. safer sex)
					that served primarily low- income communities. Of the students participating in the initial survey, 53 percent were female, 26.5 percent lived with both parents, and 15.4 percent reported having recently engaged in sexual activity (N = 659).	were randomly assigned to receive one of the three interventions: abstinence, safer sex,		6- and 12-month follow-ups	NS (vs. control and safer sex)			
						reported data and limited generalizability of the results as limitations to the study.		Frequency of sexual activity in the last 3 months 3-month follow-up 6- and 12-month follow-ups	NS (vs. control) NS (vs. safer sex)** NS (vs. control) NS (vs. safer sex)**			
1() Stay SMART	St. Pierre et al. (1995)	Family Relations	~	Participants came from 14 Boys and Girls Clubs across the country. Participants and youths in the control	Quasi-experimental. Pretest and 3-, 15-, and 27-month posttests were conducted. Some differences were detected between youths who completed the program and those who did not. Non-virgins in the stand-alone	ANCOVA	Virgins at pretest Recency and frequency of sexual activity (3-, 15-, and 27-month follow-ups)	NS			
					group came from comparable demographic and socioeconomic neighborhoods. Sample respondents averaged 13.6 years in age and were three-fourths male (N = 152, 27-month posttest).	program reported, on average, more favorable attitudes toward sexual behavior than non- virgins in the booster and control groups. The study controlled for the pre-program differences. Limitations include selection bias, attrition, small sample size, unobserved differences between program and control groups, and differences in program sites.		Non-virgins at pretest Recency and frequency of sexual activity <u>3-month follow-up</u> <u>15-month follow-up</u> 27-month follow-up	NS NS Positive			
11	Project Taking Charge	Jorgensen et al. (1993)	Family Relations	V	7th grade students in Wilmington, DE, and West Point, MS, from disadvantaged socioeconomic backgrounds (N = 50).	Quasi-experimental, random assignment at class-room level. Study included a pretest, posttest, and 6-month follow-up with no attrition. Study limitations include a small sample and a short-term follow-up period. The study did not control for differences between the two groups at baseline.	ANCOVA	Rate of sexual initiation	Positive			

* See first page of Appendix. ** Except among youth with prior sexual experience, in which case results favored safer sex.

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12	Teen Aid and Sex Respect	Weed (1992)	Report to HHS and Utah Department of Education		7th and 10th grade students from three districts in Utah (N = 336, more "per- missive attitudes" sub-sample).	Quasi-experimental. Pretest, posttest, one-year follow-up conducted. Students who completed either the pretest or follow-up were more at-risk for engaging in sexual activity than those who com- pleted both surveys. Comparison group students	MANOVA	Rate of sexual initiation Entire sample "Permissive attitude" sub-sample High school	NS																			
						study controlled for group differences. The authors noted that the findings may be generalizable only to youths with similar characteristics and in similar geographic locations as the sample.		Middle school	NS																			
13	Virginity Pledging	Resnick et <i>al.</i> (1997)	JAMA	~	Nationally representative sample of 7th–12th grade students from the National Longitudinal Study of Adolescent Health, Waves I and 2 (N = 4,982).	Longitudinal survey. Study controlled for key demographic characteristics.	Cox regression	Age at sexual initiation	Positive																			
14	Virginity Pledging	Bearman and Brückner (2001)	American Journal of Sociology	~	Nationally representative sample of 7th–12th grade students from the National Longitudinal Study of Adolescent Health, Waves I and 2 (N = 5,679).	Longitudinal survey. Study controlled for a host of demographic characteristics, religiosity, and other protective factors.	Proportional hazards models	Initiation of sexual activity Contraceptive use at initiation	Positive Negative																			
15	Virginity	Rector	ctor Center for Data al. Analysis Report 2004)		Nationally representative	Longitudinal survey. Study controlled for a number	Multivariate logistic regression	Initiation of sexual activity	Positive																			
	Pledging	et al. (2004)			sample of 19- to 25-year- olds in 2001 from the	of factors, including gender, race, age, family income, religiosity, self-esteem, and school performance.		Pregnancy rate	Positive																			
																									National Longitudinal Study of Adolescent Health, Wave 3 (N = 5,679).	- <u>-</u>		Out-of-wedlock birth rate
16	Virginity Pledging	Rector and Johnson (2005a)	Paper presented at the 8th Annual Nationa Welfare Research and Evaluation Conference, sponsored by the HHS-ACF	1	Nationally representative sample of 19- to 25-year- olds in 2001 from the National Longitudinal Study of Adolescent Health, Wave 3.	Longitudinal survey. Study controlled for gender, age, race, family structure, and religiosity.	Multivariate logistic regression	STD rates	Positive																			

* See first page of Appendix.

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17	Virginity Pledging	Rector and Johnson (2005b)	Paper presented at the 8th Annual National Wel- fare Research and Evaluation Conference, sponsored by the HHS-ACF		Nationally representa- tive sample of 19- to 25-year-olds in 2001 from the National Longitudinal Study of Adolescent Health, Wave 3	Longitudinal survey. Study controlled for gender, age, race, family structure, and religiosity.	Multivariate logistic regression	Risky sexual behavior	Positive	
					Studies Repo	rting No Significant Results				
Ι	My Choice, My Future!	Trenholm et al.	Journal of Policy	~	Two programs targeted upper elementary stu-	Experimental.The final follow-up surveys were conducted 42 to 78 months after program	Tests of difference in	Abstinence (overall and last 12 months)	NS	
	ReCapturing the Vision	(2008)	Analysis and Management		dents, and two targeted enrollment. middle school students. The four program sites were Powhatan, VA; Miami; Milwaukee; and Clarksdale, MS. Many of the students come from lower socioeconomic backgrounds (Powhatan: N = 448; Miami: N = 480; Milwaukee: N = 414; Clarksdale: N = 715).	enrollment.	regression- adjusted means	regression- adjusted means	Number of sexual partners	NS
	Families United to Prevent Teen							Contraceptive use (first experience and last 12 months)	NS	
	Teens in Control							Pregnancy, birth, and STD rates	NS	
2	WAIT Training	Rue and Weed (2005)	Paper presented at the 2005 Abstinence Evaluation Conference		The program was delivered to students, mostly 9th graders between the ages of 15 and 17 in four Colorado high schools (N = 318).	Quasi-experimental. Pretest, posttest, and I 2-month follow-up conducted. The analysis did not control for baseline differences in characteristics between students in the program and those in the control group—a significant limitation.	Not specified	Initiation of sexual activity	NS	

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3	California's Postponing Sexual Involvement	ornia's Kirby et al. ooning (1997) al vement	al. Family Planning Perspective	v	Californian youths averaging 12.8 years old and in the 7th grade. The samples	Experimental, three levels (classroom, school, and individual youth). Pretest and 17-month follow-up survey were conducted. In the sample based on school-level randomization, the control group	T-tests and chi- square tests of differences in changed outcome.	Initiation of sexual activity, sexual activity in past 3 and 12 months, and num- ber of sexual partners	NS
					were racially and	was less likely to speak English at home and	Due to the large	Contraceptive use	NS
					(N = 7.340).	have mothers with less education, have engaged	only findings	Pregnancy rates	Negative
					(14 - 7,510).	in sexual activity ever, and have had more sexual partners. The study controlled for these differences. Study limitations include a lack of a strict no-treatment comparison group.	at or above the 99 percent confidence level were considered statistically significant.	STD rates	NS
4	Will Power/ Won't Power	Postrado and Nicholson (1992)	Youth and Society	~	12- to 14-year-old girls who were involved with four Girls Incorporated member organiza- tions (N = 412).	Pretest and one-year follow-up. Study participants who voluntarily enrolled in the program became the "treatment" group. The control group consisted of those who did not enroll. Program and control groups matched on a number of characteristics.	Chi-square tests, logistic regression	Initiation of sexual activity	NS
5	Virginity	Brückner	Journal of	~	Nationally repre-	Longitudinal survey.	Cross-tabula-	STD rates	NS
	Pledging	and Bearman (2005)	and Adolescent Bearman Health (2005)	dolescent lealth	sentative sample of 19- to 25-year-olds in 2001 from the		tions, tests of difference in the distribution of frequency (Wald test), and Kaplan-Meier	Initiation of sexual activity and number of sexual partners	Positive
					National Longitudinal Study of Adolescent			Risky behaviors	Negative
					Health, Wave 3 (N = 1,788 to 11,471, depending on the STD measure).			Condom use	
								First experience	Negative
								Previous 12 months, last episode	NS