Hispanic Youth in Pregnancy Prevention Programs Research: An Analysis of the Research Literature

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Abstract

Recently, the Office of Adolescent Health (OAS) of the U.S. Department of Health and Human Services called for applications to replicate 28 evidence-based programs with fidelity to reduce teenage pregnancy. While the announcement was laudable for its potential impact on minority youth, it identified programs based on evidence that seldom included Hispanic youth, and the emphasis on faithful replication reduced the possibility of cultural adaptations. This is not an inconsequential concern: Hispanic youth comprise a sizable portion of the population between 10 and 19 years of age and are at high risk for teenage pregnancy.

To what extent were Hispanic youth included in the 28 teen pregnancy prevention programs identified by OAS? We conducted a review of the literature on the 28 programs plus one new program and two replications (N=31 program). Based on the averages reported in all studies, we found that African American youth comprised 61.6% of participants. Hispanic youth comprised only about 18.3% of samples. When numerical totals of participants were used, the proportions that were derived were approximately the same. Findings raise serious question about the evidentiary base of these programs, which have omitted a large swath of the American youth population. If implemented with fidelity in populations that have not been included in past research or for which cultural adaptations have not been developed, the results may undermine confidence in the effectiveness of the intervention with Hispanic youth.

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Background

In a recent Funding Opportunity Announcement¹, the Office of Adolescent Health (OAS) of the U.S. Department of Health and Human Services called for applications for the "purpose of replicating evidence-based programs that have been proven through rigorous evaluation to reduce teenage pregnancy, behavioral risks underlying teenage pregnancy, or other associated risk factors" (p. 3). The FOA reflects our nation's focus, more than ever, on using evidence-based, data-driven means to address public health challenges such as teen pregnancy rates. The FOA set forth 28pregnancy prevention and youth development programs that the OAS determined were evidence-based" and effective. Applicants for funding were required to select one of the 28 programs and ensure that it was implemented with "fidelity."

The call for applications from community-based sources is an important step in reducing the risks of teenage pregnancy, especially among minority teens, and ensures that the efforts occur within service organizations that minority youth are likely to access. The focus on teenage pregnancy prevention is equally as important since minority youth, particularly African Americans and Hispanics, have the highest rates of teenage pregnancy and early parenthood in our country. The Guttmacher Institute reports that in 2006 the rate of pregnancy among women under the age of 20 increasedafter a general decline in teen pregnancy between 1990 and 2005 (Kost, Henshaw, & Carlin, 2010). The decline for Hispanic women, however, was much lower (26%) than the decline for African American (45%) and non-Hispanic White (50%) women. Then, when the increases in teen pregnancy surged from 2005 to 2006, rates for Hispanic women rose from 124.9 per 1,000 to 126.6 per 1,000, in contrast to the increase in he rates among African American women, which rose from 122.7 to 126.3, and the rates among non-Hispanic White teens, which rose from 43.3 to 44.0 in 2006. Therefore, the decline was lowest for Hispanic women in the 15 years between 1990 and 2005, and their surge started from a higher point than African American females and went to a slightly higher rate than African American women. Moreover, teen pregnancies were highest in those states with the largest Hispanic populations—California, Texas, New York, Florida, and Illinois (Kost et al., 2010), suggesting that the rates nationally may have reduced the average difference between Hispanic and African American women. But the average may conceal the significance of the fact that Hispanic women experience higher rates in the most populous states in the U.S. that also have the highest concentrations of Hispanics. This background information affirms the need for more intervention testing in community settings and including more Hispanic youth—both females and males—in adolescent pregnancy prevention efforts.

However, the insistence on implementing 28 programs deemed to be evidence-based and the further requirement that they be implemented with fidelity raises several potential problems. First, the general situation in the field of intervention research is that most interventions have been developed, tested and standardized with a narrow representation of the population. Most often, interventions are developed with a restricted population that may not be representative of the ethnic and racial make-up of the U.S. The empirical evidence of interventions is usually derived from randomized control trials, with their restrictive criteria for inclusion criteria to show efficacy or effectiveness. In efficacy testing, strict and narrow criterion are used to identify those persons who can enter the

¹OPHS/OAHTPP Tier1-2010

study and cannot. While some groups may be included due to their minority status or their identification as having the highest risk for the problem targeted by the intervention or their income level, other groups who are either equal in size or risk as the groups targeted by the intervention may be omitted. A major drawback of this is that of generalizability, that is, whether the intervention will work equally well or better when administered with other groups that were not in the original efficacy testing and that may have unique characteristics and different from those in the standardization sample.

A second major drawback is that fidelity imposes limits on how much adaptation can be done to an intervention. One argument against adaptation is that it may reduce the potency or intensity of the core ingredient that makes the intervention efficacious or effective. Therefore, interventiondevelopers impose limits on what adaptations can be made to their product. And this is an understandable situation since unabridged or wholesale adaptation of an intervention can ruin its effectiveness. Also, insisting on fidelity to the original model further restricts the application of programs to those populations that were not included in the standardization samples. Fidelity, therefore, restricts adaptation—the targeting and tailoring—of interventions to match the needs, values, norms, and behavioral repertory of people in distinct settings(urban/rural) and of diverse ethnicities and cultures. Fidelity without adaptation not only has the potential of lowering the effectiveness of the intervention but can affect the availability, acceptability, accessibility, and uptake of the un-adapted interventionby new populations. Our research on parenting interventions, for example, indicates that Hispanic parents may reject an intervention or parts of an intervention because it does not fit their cultural values and parenting beliefs, or may selectively use those elements of the intervention that they find most appealing. The same can occur among adolescents who are recruited to pregnancy prevention interventions. If the exercises, symbols, or language of an intervention are not attractive to Hispanic youth or resonate with their lived experience, Hispanic adolescents may reject the intervention and not attend, or attend without engaging actively in it. Cultural adaptations customarily include tailoring the intervention to characteristics of the target population without affecting the core or active therapeutic ingredients of the interventions.

Given that Hispanic youth comprise a sizable portion of the population between 10 and 19 years of age and are at high risk for teenage pregnancy and early parenthood, we agree that testing empirically supported interventions should be conducted. However, we question the extent to which Hispanic youth were included in the 28 teen pregnancy prevention programs that were identified for selection by OAS as evidence-based. In the present project, we undertook a thorough literature review to determine the extent to which Hispanic youth have been included in past testing of the interventions that OAS determined could be used by applicants for funding.

Method

All 28 teenage pregnancy prevention programs and curricula listed in Appendix A–List of Evidence-based Program Models (p. 38) of the FOA were subjected to an exhaustive literature search. The criteria for the selection of publications were that they have appeared in peer-reviewed publications and constituted research reports (not literature reviews or syntheses) that described the effectiveness of the intervention. If more than one report was found for a program, each was carefully read to ensure that they constituted distinct, unduplicated samples (i.e., that each study had a unique group of youth). Through exhaustive electronic and manual searches for literature, we reviewed all of the publications and extracted specific information.

Search Strategy

We began our review of literature through searches using the names of the 28 different evidence-based teen pregnancy prevention models. Through our initial review of the programs, we created specific categories of interest to draw out from the literature based on the design and purpose of each study. We used these categories to guide our search of publications that cited the original program study or replication studies.

We generated our initial literature references from available program homepages that generally provided a citation for the original publication from which the data were drawn. From there, we searched for the publications in reputable literature databases (i.e., Academic Search Premier, Article First, Medline, PsychINFO, PubMed) and found additional publications and some replication studies that we included in our review when relevant. Another helpful resource was the ReCAPP Resource Center for Adolescent Pregnancy Prevention, which provided curriculum overviews for several of the program models, as well as details of the research design, findings, and the original publication. Our first search, after eliminating random hits and unrelated results (i.e., news articles, program announcements, popular media) generated 175 related publications. We then separated out the research reports from these publications. Finally, from the remaining list of 59 research reports, we included 33 into our final report. Table 1 includes the publication, the findings, and other relevant variations for this project.

Relevant Variations

Publications were separated by program and categorized by the following variations: outcome, evaluation design, age, race/ethnicity, gender, program setting, location, sample, and relevant findings. A final column was created for additional comments or findings we identified as significant, particularly if there were any adaptations or translations of the models. Relevant findings were based on those provided within the article, not our own interpretations.

Results

Our searches yielded a total of 31 examples of unduplicated empirical tests of the teen pregnancy prevention programs. This represented all 28 OAS-selected programs, one not included in the OAS list of evidence-based programs, and tworeplications or adaptations of one of those on the list. Based on their percentage (proportion) of all samples in the 31 studies that were reported, African American youth comprised, on average, 61.6% of participants. African American youth were participants in all but one study (the ¡Cuidate! program, an adaptation of the Be Proud program in Philadelphia and directed to Hispanic youth). In the 30 studies in which African American youth participated, they comprise about 63.7% of samples, nearly two-thirds of all youth.

Contrasting the participation rates of Hispanic youth in the studies of the evidence-based teenage pregnancy prevention programs to those of African American youth, we find a considerable difference. In the 31 reports surveyed, Hispanic youth comprised only about 18.3% of the samples. When we look at only the 15 reports that included Hispanic youth in their samples, the average participation rate was 33.5%.

When contrasting the numbers of Hispanic participants in contrast to all youth in the studies, the results reflect a similar pattern of low Hispanic representation. In the 29 studies that reported the number of participants (one study focused on parents and another did not report totals), 28,263 youth participated in the research nationally as either intervention or control subjects. A total

of 5,841 Hispanic youth participated, and they were present in only 15 of the 29 studies on the interventions. Hispanic youth, therefore, represent about 20.6% of all studies reported. In the 15 studies that included Hispanic youth, the total number of participants was 19,220, making Hispanic youth only 30.3% of the sample.

Conclusions

Despite the growth of the Hispanic youth population (i.e., between the ages of 10 and 19) and projections that Hispanic youth will constitute 29% of all youth by 2050, research on pregnancy prevention has lagged significantly in including Hispanic youth in study samples. Only about half of the 31 programs that were identified through our literature review included Hispanic youth, making them about less than one-fifth of all participants. Considering that Hispanic youth are at higher risk for unplanned adolescent pregnancies in comparison to other youth, the underrepresentation of Hispanic in evidence-based pregnancy prevention studies is troubling.

Selecting evidence-based programs that have not included Hispanic youth in proportion to their presence in the U.S. youth populationor, worse, in proportion to their high risk raises serious concerns about the potential outcomes. Moreover, without adaptation of interventions for the diverse cultures represented by Hispanics, the core therapeutic aspects of the intervention may not resonate with the needs of the target population of Hispanic youth.

Table 1. Summary of Studies Reviewed

Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
Aban Aya Youth	Flay, Graumlich, Segawa, Burns, & Holliday, 2004.	Experimental Design	School-based, after school	Urban: Chicago, IL (12 metropoli- tan schools)	Baseline: 1153 Completion: 668; N= 552	Improved contraceptive use	Upper Elementary & Middle School (5th-8th Grade) ages: 10-11 and 13- 14; African American (100%); Male & Female
	Relevant Findings	Reduced risky behavior month follow up; impro and 165%); theoretically programs that are cultured appropriate, and offered multiple risk behaviors boys in grades 5 through needs more research. Neffects for girls. For boy increase in violent behaviore controls), provoking be delinquency (31%) drug intercourse (44%). Also condom use (95%) as condom use (95%) as condom control conditional control condition	lom use (95% motional velopmentally les can reduce rican American cts for girls rvention educed rate of npared with lool recent sexual f increase in	Additional comments	violence prevent program; cultura African-America	ost publications focus on the olence prevention aspect of this ogram; culturally specific for frican-American male youth; same ita used in publications	
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
All4You	Coyle, Kirby, Robin, Banspach, Baumler, & Glassman, 2006.	Experimental design	School- based (Alternative Schools)	Urban: 24 community day schools in Northern California); Thirteen schools randomly assigned to intervention. Other 11 schools were	N=988; follow-up survey N=743	Improved contraceptive use	High School; 29% African American, 16.9% Asian American, 27.6% Latino, 12.2% White, 14.2% Other or multi-ethnic; 61.2% Males 38.8% Females

				control sites.			
	Relevant Findings	At the 6-month follow-frequency of intercours previous 3 months; free condom with steady particles students reported having months. Also increased Effects were not statist 18-month follow-ups. I reducing selected sexual in alternative school sets short term.	se without cond quency of interc artners; and num ng intercourse in I condom use at ically significant Intervention wa Il risk behaviors	om during course without a aber of times a previous 3 last intercourse. at the 12- and s effective in among students	Additional comments	Instrument used available in Eng	lish and Spanish
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
ASSESS (Awareness, Skills, Self- efficacy/Self- esteem, and Social Support)	Boekeloo, Schamus, Simmens, Cheng, O'Connor, & D'Angelo 1999.	Experimental design	Clinic based	Urban: Washing- ton, DC	N=197 (data at baseline, 3 and 9 months) n = 7 Hispanics (4 intervention, 3 control)	Improved contraceptive use	Middle & High School (ages 12-15); 65% African American, 19%, Caucasian, 7% Hispanic, and 13% Other; Males and females
	Relevant Findings	Reduced risky behavior follow-up	r at short term—	-not at 9-month	Additional comments		
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
Be proud! Be responsible!	1) Jemmott, 1992; 2) Borawski, Trapl, Adams-Tufts, Haymen, Goodwin, & Lovegreen, 2009.	1) Experimental design; study 2) Experimental replication (quantitative study)	School- based, after school	1)Philadelphia 2) Midwestern Metropolitan area	1) N = 157; 2) N = 1357 Totals: N = 631 intervention; N = 726 control	Improved contraceptive use; Increased knowledge of HIV /AIDS & STIs, enhanced feelings of pride, and built support for safer sexbehavior	1) 10 th , 11 th , 12 th grades; 2) 9 th and 10 th grades; 1) African American male adolescents; 2) White: 49.7%; Black 35.8%; Hispanic 11.9 %. Other 2.6%. Males m + 14.6 yrs

	Relevant Findings	1) Compared with contr gains in knowledge about behavior; engaged in sign behavior than controls at confidence in ability to condoms and to negotiat stronger intentions to use follow-up: teens in interviewer female sexual partrintercourse and vaginal in (prior 3 months), and sign having heterosexual anal. 2) Compared to control, reported significantly grest STDs and condoms; great control sexual impulses, negotiate the use of condition use condoms. Stratific intervention impacts were among males and studen Intervention had no imperfequency of intercourse completed immediate pomonth follow-up and 92% follow-up.)	risky sexual -risk sexual up; greater es, to use and month ignificantly ys of vaginal t a condom ly to report ents f HIV, other ability to nd to r intentions hat strongest nd efficacy ban schools. ation, 99% leted four-	Additional comments	on STD knowled students. White s intervention had condom negotiat technical skills at white controls; B no significant dif measures; howev	had a strong and ct on condom g white students and lge among black students exposed to higher scores on	
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
Becoming a Responsible Teen (B.A.R.T.)	Jemmott, Jemmott, Fong. & McCaffree, 1999.	Experimental Design	Urban: Jackson, MI	N= 246	Delayed sexual initiation, improved contraceptive use	High School (ages 14-18), Avg age 15 years; 100% African American; 28% males 72% females	
	Relevant Findings	Of youth who were sexu intervention, only 11.5% later compared with 31% group. Among those sexi intervention, 42% of compared with the sexulation of the sex	were sexually act of participants ir ually active prior t	ive 1 year a control o	Additional comments		

		1year versus 27% of inte intervention, youth assig likely to use condoms an unprotected vaginal or an	ned to interventio d less likely to eng	n were more			
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
Children's Aid Society-Carrera Program	Philliber, Kaye, Herrling, & West, 2002.	Experimental Design	Community based, after- school	Urban: New York City	N = 484, 6 sites (242 control, 242 intervention)	Delayed sexual initiation Improved contraceptive use. Reduced teen pregnancy.	High School (ages 13-15); 60% African American; 39% Hispanic (n =189); Males & females
	Relevant Findings	Better outcomes for girls pregnant, more likely to method, less likely to hav had positive health care.	normonal	Additional comments No significant difference between Hispanic and A America participants		c and African	
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
Cuidate (adaptation of Be proud! Be responsible!)	Villarruel, Jemmott, & Jemmott, 2005.	Experimental Design	Community based, after- school (Saturdays)	Urban 3 Philadelph ia high schools	N = 553	Improved contraceptive use	n = 249 males, n = 304 females; 100% Hispanic: (85% Puerto Rican)
	Relevant Findings	Over follow-up period, i less likely to report sexual partners, and days of unp more likely to report usin Baseline sexual experience intervention efficacy. Add intervention who were see baseline reported fewer of Spanish speakers were many condomat last intercours of protected sex compare	Itiple urse, and stently. se moderated I to the HIV ced at ed sex; used a er proportion	Additional comments	1		

		health-promotion interve	ention.				
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
Draw the Line/Respect the Line	Coyle, Kirby, Marin, Gomez, & Gregorich, 2004.	Experimental Design	School-based	Urban (Northern California) (10 schools and 3 districts)	N = 2829 at baseline	Delayed sexual initiation	Middle School (ages 11-14); 59% Latino, 17 % White, 16% Asian, 5 % African American, 3% Other; 50% male, 50% female
	Relevant Findings	partners at 24-month fol Intervention delayed sex not girls. Boys in interver greater knowledge than of fewer peer norms support more positive attitudes to stronger sexual limits, an situations that could lead	Delayed sexual initiation in males and fewer sexual artners at 24-month follow-up, but not at 36. Intervention delayed sexual initiation among boys, but ot girls. Boys in intervention also showed significantly reater knowledge than control students, perceived ewer peer norms supporting sexual intercourse, had more positive attitudes toward not having sex, had tronger sexual limits, and were less likely to be in ituations that could lead to sexual behaviors.				
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
Focus on Kids (Focus on Youth)	Galbraith, 2002. based, after- Baltim		based, after- Baltimore,		N= 383 (90% follow up) n = 206 intervention n = 177 control	Improved contraceptive use	Middle and High School (ages 9-15 years old); 100% African American Males and females
	Relevant Findings	Cumulatively over 3 year significantly lower rates of Findings indicate that fact offer significant cumulati unprotected sex over lon	condom. ntions may	Additional comments	among boys (859	was especially strong % versus 57%) and d 13 to 15 years (95%	

Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity	
Focus on Kids plus ImPACT (Focus on Youth plus ImPACT)	Wu, Stanton, Galbraith, et al., 2003. Stanton, Cole, Galbraith, et al., 2004.	Experimental Design	School based	Urban: Baltimore, Maryland (Housing developme nts, communit y centers, and recreation centers)	N = 817, Recruitment sites were randomly assigned to one of three groups: FOK+ImPA CT and multiple booster sessions (n = 238), FOK+ImPA CT (n = 258), and FOK only comparison (n = 321).	Improved contraceptive use Reduced Teen pregnancy	Middle and High School (13-16); 100% African American; 58% Female, 42% Male	
	Relevant Findings	Reduced sexual intercour to FOK only comparisor the FOK+ImPACT inter report other risk behavio smoking at 6 and 24 mor months, marijuana use at been pregnant or gotten a A significantly larger perc in intervention reported a youth participating in FC 24 months.	a group, youth where less rs, including: cigar aths, alcohol use a 12-month follow a girl pregnant at the tage of youth pregnancy comp	o received likely to rette t 6 and 12 -up, and 24 months. participating pared to	Additional comments	Has parent component; The FOK+ImPACT+Booster intervention, which included booster sessions at 7, 10, 13, and 16 months, did not meet the best evidence criteria.		
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity	
Get Real About AIDS	Main, Iverson, McGloin, & Banspach, 1994.	Quasi-experimental design	School based	Urban, rural, and suburban:1 7 Colorado high	N = 2,015	Improved contraceptive use	High school (9-12th grade; average age- 15 years; 60% were in the 9th grade; 6% African American, 3% Asian,	

	Relevant Findings	No significant difference behavioral measures of a in intervention classes we they had purchased a cor condition. Sexually active fewer sexual partners wit condom more often duri Intervention did not sign sexual intercourse.	ctual sexual activiere more likely to ndom than studen students reporte hin past 2 monthing sexual intercolificantly postpone	ty; students report that tts in control d having s and using a urse. e onset of	Additional comments	were sexually exp study	21% Hispanic, 65% White, 5% Other; 51% male 49% female ment available; 44% perienced prior to
Program Teen Health Project: HIV Prevention for Adolescents in Low-Income Housing Developments	Publication Sikkema, Anderson, Kelly, Winett, Gore-Felton, Roffman, et al., 2005.	Evaluation Design Experimental design	Community- based, after- school	Milwaukee , Racine, Roanoake, Seattle, and Tacoma (15 low- income housing develop- ments)	Baseline (N = 1172), short-term follow-up (n = 865), and long-term follow-up (n = 763)	Outcome Delayed sexual initiation. Improved contraceptive use	Age, Gender Race/Ethnicity Middle and high school (12-17); 51% African American, 20% Asian, 10% East African, 5% White, 3% Hispanic, 3% Ukrainian, 2% Russian, 1% Native American, 5% other; Males and females
	Relevant Findings	More condom use after processing developments resintervention were more intercourse (85%) than the (76%), while those in word did not differ from control Adolescents in both intercourse than the developments.	cents in ity-level et of first evelopments ents (78%) escents. id workshop se a condom	Additional comments			

Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
Keepin' it R.E.A.L. Responsible, Empowered, Aware Lifestyles: HIV Risk Reduction Among Detained Adolescents	DiIorio, Resnicow, Thomas, Wang, Dudley, Van Marter, et al., 2002.	Experimental design	After school parent program	Original study: Suburban: 12 different sites in a "Large southeastern city"	Original study: N = 612 adolescents and N = 491 mothers	Improved contraception use; Delayed sexual initiation	High school (ages 11-14); African American = 601 or 98.2% African American 1% White 0.8% Other 60.6% males, 39.4% females
	Relevant Findings	One control group and to based on social cognitive skills program (LSK). As before intervention and a baseline assessment. Ame demonstrated increase in SCT and control groups knowledge than those in substantial increase in coself-efficacy. Mothers in knowledge of HIV than groups.	d other a life onducted onducted onducted on this after LSK group of those in HIV others showed on the sex and of higher on	Additional comments		nts were sexually mean age 37.9 years, nerican and single	
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
Sisters Saving Sisters: HIV Risk Reduction for African- American and Latina Adolescent Women	Jemmott, Jemmott,, Braverman, & Fong, 2005.	Experimental design	Clinic-based	Urban: Philadel- phia PA	Adolescents (N = 682) randomly assigned to 1 of 3 groups: Skills-based HIV/STD intervention (n = 235), HIV/STD information comparison (n = 228), or Health	Improved Contraceptive Use	Middle school & high school (ages 12-19); 68 % African American 32% Latino 100% females

	Relevant Findings	Skills-based intervention was no impact on behavi based intervention. More the program, teen girls in were less likely to have sethree months before the multiple partners in the transvey, and less likely to the survey.	mation- nonths after ntervention om in the to report re the	Promotion comparison (n = 219) Additional comments			
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
HORIZONS HIV Intervention	DiClemente, Wingood,, Rose, Sales , Lang, Caliendo, Hardin, & Crosby, 2009.	Experimental Design	Community Based/After School Clinic Based	Urban: Atlanta, Georgia	N = 715	Improved contraception use	High School; ages 15-21; 100% African American females
	Relevant Findings	At 12-month follow-up, fewer adolescents in ontervention had a chlamydial infection (42 vs 67) or recurrent chlamydial infection (4 vs 14). Adolescents in intervention also reported higher proportion of condom-protected sex acts in the 60 days preceding follow-up assessments and less frequent douching. Adolescents in intervention were also more likely to report consistent condom use in the 60 days preceding follow-up assessments and condom use at last intercourse.			Additional comments		
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
It's Your Game: Keep it Real!	Tortolero, Markham, Peskin, Shegog, Addy, Escobar- Chaves, et al., 2010.	Experimental Design	School-based	Urban: 10 middle schools in Southeast Texas	Baseline =1,193 seventh graders, N=907 ninth graders who followed up	Delayed sexual initiation	Middle School (mean age: 12.5 years, 7 th graders followed up in 9 th grade); 44% Hispanic, 42.3% African American, 13.7% Other; 41% male

	Relevant Findings	24 months after baseline participated in the progrof the control group. Ma month post-test, following (7th grade curriculum or reported lower prevalent during past 3 months and However, sexually inexposted greater intentions to have next year	am had initiated s aterials only in En- ng first half of intally), intervention s ce of any type of i d lower initiation erienced students	Additional comments	students in the comparison condition initiated sex compared with 17.4% of Hispanic students in the intervention condition. After adjusting for covariates, Hispanic students in the comparison condition were 64% mor likely to initiate sex than Hispanic students in the intervention condition. The subgroup analysis showed significant differences between intervention and comparison groups for initiation of vaginal sex only among Hispanic students and for initiation of anal sex among African-Americans, male, and female students		
Program	Publication	Evaluation Design	Location	Sample	Outcome	Age, Gender Race/Ethnicity	
Making a Difference!	Jemmott, Jemmott, & Fong, 1998.	Experimental design	Community Based, After School	Urban: Columbia, SC	N=215	Delayed sexual initiation & Improved contraceptive use	Middle School (12- 13); 659 6th and 7th grade; 100% African- American
	Relevant Findings	Participants were less lik group participants 3 mon difference 12 months aft higher frequency of cond control group.	gram, but no cipants had	Additional comments			
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
Making Proud Choices	Jemmott, Jemmott, & Fong, 1998.	Experimental design (randomized control trial)	Urban: Philadel- phia, PA	N=659 For the program evaluation, teens were randomly assigned to the program	Improved contraceptive use; Reduced frequency of sex	Middle School (6th & 7th Grade); ages 9-15; 100% African- American 53% female	

	Relevant Findings	Reduced frequency of se At the 12 month follow- in Making Proud Choice of unprotected sex than	up, sexually exper s! reported a lowe	ienced teens r frequency	(218 participants) or the control group (214 participants) Additional comments	*This program of supplemented by Among Teens (I maintenance con	y Promoting Health PHAT) as a
		of unprotected sex than those in the control group. The evaluation results suggest that intensive, culturally-appropriate approaches that are based on theory can reduce some risky sexual behaviors among inner-city African American adolescents. Among youth who were sexually active before the program, those in Making Proud Choices! reported a lower frequency of intercourse (1.3 days vs. 3.8 days), a lower likelihood of unprotected intercourse (9.7 percent vs. 31.6 percent), and a lower frequency of unprotected intercourse (.04 days vs. 1.9 days) than teens in the control group. Youth who were virgins at the start of the program did not differ on any of the outcomes measured compared to virgins in the control group.				middle schools a	anic and White s 11-13, who attend and youth-serving d programs. The implemented in
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
Project TALC	Rotheram-Borus, Stein, & Lester, 2006.	Experimental Design	Community based and after school	Urban: New York City	N=288	Reduced teen pregnancy	Middle School (6th- 7th) mean age was 12.2 years; 35% African American, 50% Latino, 4% white, 11% Other 53.5% female
	Relevant Findings	Parent component- work parents with HIV. 24% parents over the time of control group (over the differences for Hispanics in Latina adolescents: At	of the participant; the intervention v I years) – only eth s: more depressive	s became 7. 34% in the mic/race e symptoms	Additional comments		

		program start): adolescer intervention were signific being a teenage parent.					
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
Promoting Health Among Teens!	Jemmott, Jemmott, & Fong, 2010.	Experimental Design; Randomized control trial	Community- based/After school	N= 662	Delayed sexual initiation	Middle school (6th and 7th grade) with mean age of 12.2 years; 100% African American 53.5% female	
	Relevant Findings	At the 2 year follow-up, 1/3 of the participants in the program had initiated sex vs. 1/2 of the control group. The model-estimated probability of ever having sexual intercourse by the 24-month follow-up was 33.5% in the abstinence-only intervention and 48.5% in the control group. Fewer abstinence-only intervention participants (20.6%) than control participants (29.0%) reported having coitus in the previous 3 months during the follow-up period (RR, 0.94; 95% CI, 0.90-0.99). Abstinence-only intervention did not affect condom use. The 8-hour (RR, 0.96; 95% CI, 0.92-1.00) and 12-hour comprehensive (RR, 0.95; 95% CI, 0.91-0.99) interventions reduced reports of having multiple partners compared with the control group.			Additional comments		African American 'considered suitable itino youth"
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
Reducing the Risk	Kirby, Barth, Leland, & Fetro, 1991.	Quasi-Experimental design	School-based	Rural, Suburban, Urban: California (13 schools)	N=758, participants= 429, comparison group = 329	Delayed sexual initiation, improved contraceptive use	High school; 2% African American, 2% American Indian, 9% Asian, 20% Hispanic, 62% White, 5% Other

							53% female
	Relevant Findings	28% initiated sex vs. 38% mo follow up. Females in contraception all or most those in comparison grouless likely to have unprot group (9% v. 16%).	orted using pared to cipants were	Additional comments		35% Temale	
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
Safer Choices	Coyle, K.K., Kirby, D., Parcel, G., Basen-Engquist, K., Banspach, S., Rugg, D., & Weil, M. (1996).	Experimental Design (randomized control)	School-based	Suburban & Urban: Northern California & Southeast Texas	N=3869 ninth-grade students tracked for 31 months from fall semester 1993 to spring semester 1996 (79% follow-up)	Delayed sexual initiation, improved contraceptive (condom) use	High school (9 th - 10 th grade); 31% white, 27% Hispanic (562 at baseline), 18% Asian, 17% African American, and 7% of other ethnicity; Male & Female
	Relevant Findings	Sexually active teens in S than control group teens contraceptive method at 31-month follow-up. Saf effect on measures involprogram reduced the free a condom during the threeduced the number of s students had intercourse increased use of condom pregnancy at last intercourse improved 7 of 13 psychoto condom use, but did r upon rates of sexual initirelative to comparison st higher on the HIV and of expressed significantly m condoms; and reported s	to use a condom last sexual interce er Choices had its ving condom use. quency of intercoree months prior the exual partners without a condom is and other protecurse. Safer Choice is social variables, roth ave a signification. Safer Choice in udents, scored signification is social variables, roth ave a signification. Safer Choice is udents, scored signification is social variables, roth average is signification. Safer Choice is social variables, rother STD knowledge is social variables is social variables, rother strong in the strong is social variables.	or other course at the greatest The urse without o the survey, h whom n, and ction against es also nany related ant effect s' students, enificantly edge scales, udes about	Additional comments	likely to initiate s Latinos in the co	ogram were 43% less exual intercourse than introl group. found (8) use same

		use self-efficacy, fewer b higher levels of perceive Safer Choices' students als beliefs about condom us parents	d risk for HIV and o reported greater				
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
Seattle Social Development Project	Lonczak, H.S., Abbott, R.D., Hawkins, J.D., Kosterman, R., & Castalano, R.F. (2002).	Quasi-experimental design	School-based	Suburban & Urban: Seattle, WA (18 Seattle inner-city schools)	N= 808 (baseline), (92.5% follow-up at 21 years old = 747)	Delayed sexual initiation, improved contraceptive use, reduced teen pregnancy	Elementary school (5th grade); 47% European American; 22% African American; 22 Asian American; 5% Native American; Male (51%) and female (49%)
	Relevant Findings	The full-intervention group reported significantlyfewer sexual partners and experienced a marginally reduced riskfor initiating intercourse by age 21 years as compared withthe control group. Among females, treatment group status wasassociated with a significantly reduced likelihood of both becoming pregnantand experiencing a birth by age 21 years. Among single individuals, asignificantly increased probability of condom use during lastintercourse was predicted by full-intervention group membership;Sexual behaviors measured at age 21 and results showed delayed sexual initiation (72% of participants v. 83% comparison), more use of condom 60% v. 44%, and decreased teen pregnancy, 17% v. 26%. African Americans were especially responsive to the intervention in terms of this outcome.			Additional comments	singleAfrican An especially respon	ted that after octoeconomic status, nericans were
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
SiHLE	DiClemente, R. J., Wingood, G. M., Harrington, K. F., et al. (2004).	Experimental Design	Community- Based/After School, Clinic Based	Urban: Southern U.S. (city not	N=522 sexually active African	Improved Contraception, Reduced Teen Pregnancy	High School (14 – 18 years of age); African American (100%); Female

	Relevant Findings	At both the six-month ar ups, SiHLE females repo consistent condom use the females. SiHLE females report having become properiod and were less likely new sexual partners in the follow-up assessment. V	orted significantly han did control gr were marginally le egnant during the ly to report having e month leading u	more oup ess likely to follow-up g acquired ip to the	American girls: HIV prevention intervention (n = 251) or the general health control group (n = 271) Additional comments		
		follow-up assessment. Vaginal swabs revealed that SiHLE females were significantly less likely to have acquired Chlamydia, but were not less likely to have acquired trichomonas or gonorrhea. SiHLE females demonstrated greater condom use proficiency than control females at both follow-ups on the condom use demonstration task. SiHLE females also had higher condom-use self-efficacy and higher HIV prevention knowledge scores. Compared with control females, SiHLE females reported perceiving fewer barriers to condom use, having more favorable attitudes towards condoms, and having more frequent discussions with their sex partners about HIV prevention.					
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
Teen Outreach Project (TOP)	Philliber, S., & Allen, J.P. (1992).	Experimental Design	School-based	Suburban & Urban: St. Louis, MO (originally) and tested in over 25 sites throughou	N=1,487 (632 students who participated in the TOP and 855 comparison students)	Reduced teen pregnancy	High School (grades 9-12, ages 11-19 years); Black-66.7%, White-17.0%, Hispanic-12.9%, Other-2.4%; Male 75.4%, Female 24.6%

	Relevant Findings	At program completion: experienced more than to pregnancies than did ado vs. 4.2%). Teen Outreach prevention program with of the specific type of preassessed. The program has reducing future pregnanchighest risk of such pregnalready given birth to a characteristic of the program of the program of the program of the pregnanchighest risk	wice the percentage lescents in the property of a speared most of a youths who were oblem behaviors and the greatest implies among the greatest of those were property of the	ge of ogram (9.8% effective as a e most at-risk being pact in oup at	Additional comments	same investigator	studies produced by rs (1997 and 2001); as measure additional ool failure and
Program Assisting in Rehabilitating Kids (ARK)	Publication St. Lawrence, J. S., Crosby, R. A., Brasfield, T. L., & O'Bannon III, R. E. (2002).	Evaluation Design Experimental design	Setting Clinic-based	Location Mississippi (two residential drug treatment programs)	N = 161, RK Behavior Skills + Risk Sensitization intervention (n = 54), Behavior Skills only intervention (n = 54), or Health Education comparison (n = 53).	Outcome Increased abstinence, Reduced unprotected sex, increased protected sex and condom use	Age, Gender Race/Ethnicity Mean age: 16 years, Mean education: 10 years; 75% White, 22% African American, 2% Native American, 1% Hispanic; 68% Male, 32% Female
	Relevant Findings	At drug treatment facility, intervention participants reported abstinence at the 6-month and 12-month followup, intervention participants reported a significantly lower frequency of unprotected vaginal sex and greater frequency of condom-protected sex than the health education participants at the 6-month and 12-month follow-ups and also reported a significantly lower frequency of unprotected vaginal sex and greater frequency of condom-protected sex than participants in the behavioral skills training			Additional comments		I

		intervention at the 12-me					
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
Project AIM: Adult Identity Mentoring	Clark, Miller, Nagy, Avery, Roth, Liddon, & Mukherjee, 2005.	Experimental Design	School-based	Suburban: SanBernad ino, CA	N= 278 seventh graders	Increased abstinence, and delayed sexual initiation	7th grade (12-14 years); 98% African American (no other racial/ethnic group mentioned);
	Relevant Findings	At the 19-week follow-u the intervention were sig having had sexual interco male adolescents particip significantly less likely to intercourse.	ly to report ar follow-up: vention were	Additional comments			
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
Project CHARM: Children's Health and Responsible Mothering renamed: Be Proud! Be responsible! Be protective!	Koniak-Griffin, D., Lesser, J., Nyamathi, A., Uman, G., Stein, J. A., & Cumberland, W. G. (2003).	Experimental Design	School based	Urban: Los Angeles, CA	N= 572 pregnant adolescents and young mothers; at 12-month follow up (N=525)	Increase use of contraception; decreased number of sexual partners	Grades 7 through 12; 78% Hispanic, 18% African American, and 4% other; Female
	Relevant Findings At the 6-month follow-up: adolescents participating in the intervention reported having significantly fewer sexual partners in the previous 3 months. Immediately after the intervention, the adolescents in the HIV prevention program scored significantly higher on the self-efficacy measure and demonstrated greater condom-use knowledge than did those in the control group. Group differences in hedonistic beliefs approached significance. Adolescents in the intervention group did not differ from those in the control group on measures of prevention beliefs, partner reaction beliefs, subjective norms, behavioral control, or maternal protectiveness; however,			atly fewer Immediately the HIV Igher on the eater the control liefs the ise in the beliefs, behavioral	Additional comments	*Project CHARM was renamed as Proud! Be responsible! Be protect to reflect the new focus on materr protectiveness as an impetus to re or eliminate sexual risk-taking behavior. However, much of the original class content and activities were retained.	

		significant time effects we theoretical variables with norms. Scores improved groups from baseline to p	subjective ı both				
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
Rikers Health Advocacy Program (RHAP)	Gurdin, J., Niego, S., Park, M., & Mince, J. (2008.	Experimental design	School or community based	Urban: New York City	N= 110	Increase use of contraception	16 and 18 years; 64% African American, 33% Hispanic, 3% other; Male
	Relevant Findings	At the 5-month follow-up: adolescents who had engaged in heterosexual sex (prior to arrest) and who participated in the intervention reported significantly higher frequency of condom use during vaginal, oral, or anal sex. Following the intervention, program participants were more likely to use condoms during intercourse, compared to the comparison group of teens.			Additional comments	HIV/AIDS prev attitudes and beh	ention; high risk aviors prevention
Program	Publication	Evaluation Design	Setting	Location	Sample	Outcome	Age, Gender Race/Ethnicity
What could you do?	Downs, Murray, Bruine de Bruin, White, Palmgren, & Fischhoff. (in press).	Experimental Design	Clinic based	Urban: Pittsburgh	N= 300	Delayed sexual initiation, improved contraceptive use	14-18 years; 75% African American, 15% White, 10% other; Female
	Relevant Findings Video based. At 3-month follow up, less likely to have initiated sex and less likely to have condom failure, and at 6 month less likely to have STI				Additional		

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