Training of Facilitators

Training Manual
Appendix I: CDC Materials

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The ABCs of Smart Behavior

To avoid or reduce the risk for HIV

- **A** stands for abstinence.
- **B** stands for being faithful to a single sexual partner.
- **C** stands for using condoms consistently and correctly.

Condoms and STDs:

Fact Sheet for Public Health Personnel

Consistent and correct use of male latex condoms can reduce (though not eliminate) the risk of STD transmission. To achieve the maximum protective effect, condoms must be used both consistently and correctly. Inconsistent use can lead to STD acquisition because transmission can occur with a single act of intercourse with an infected partner. Similarly, if condoms are not used correctly, the protective effect may be diminished even when they are used consistently. The most reliable ways to avoid transmission of sexually transmitted diseases (STDs), including human immunodeficiency virus (HIV), are to abstain from sexual activity or to be in a long-term mutually monogamous relationship with an uninfected partner. However, many infected persons may be unaware of their infections because STDs are often asymptomatic or unrecognized.

This fact sheet presents evidence concerning the male latex condom and the prevention of STDs, including HIV, based on information about how different STDs are transmitted, the physical properties of condoms, the anatomic coverage or protection that condoms provide, and epidemiologic studies assessing condom use and STD risk. This fact sheet updates previous CDC fact sheets on male condom effectiveness for STD prevention by incorporating additional evidence-based findings from published epidemiologic studies.

Sexually Transmitted Diseases, Including HIV Infection

Latex condoms, when used consistently and correctly, are highly effective in preventing the sexual transmission of HIV, the virus that causes AIDS. In addition, consistent and correct use of latex condoms reduces the risk of other sexually transmitted diseases (STDs), including diseases transmitted by genital secretions, and to a lesser degree, genital ulcer diseases. Condom use may reduce the risk for genital human papillomavirus (HPV) infection and HPV-associated diseases, e.g., genital warts and cervical cancer.

There are two primary ways that STDs are transmitted. Some diseases, such as HIV infection, gonorrhea, chlamydia, and trichomoniasis, are transmitted when infected urethral or vaginal secretions contact mucosal surfaces (such as the male urethra, the vagina, or cervix). In contrast, genital ulcer diseases (such as genital herpes, syphilis, and chancroid) and human papillomavirus (HPV) infection are primarily transmitted through contact with infected skin or mucosal surfaces.

Laboratory studies have demonstrated that latex condoms provide an essentially impermeable barrier to particles the size of STD pathogens.

Theoretical and empirical basis for protection. Condoms can be expected to provide different levels of protection for various STDs, depending on differences in how the diseases are transmitted. Condoms block transmission and acquisition of STDs by preventing contact between the condom wearer's penis and a sex partner's skin, mucosa, and genital secretions. A greater level of protection is provided for the diseases transmitted by genital secretions. A lesser degree of protection is provided for genital ulcer diseases or HPV because these infections also may be transmitted by exposure to areas (e.g., infected skin or mucosal surfaces) that are not covered or protected by the condom.

Epidemiologic studies seek to measure the protective effect of condoms by comparing risk of STD transmission among condom users with nonusers who are engaging in sexual intercourse. Accurately estimating the effectiveness of condoms for prevention of STDs,

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however, is methodologically challenging. Well-designed studies address key factors such as the extent to which condom use has been consistent and correct and whether infection identified is incident (i.e., new) or prevalent (i.e. pre-existing). Of particular importance, the study design should assure that the population being evaluated has documented exposure to the STD of interest during the period that condom use is being assessed. Although consistent and correct use of condoms is inherently difficult to measure, because such studies would involve observations of private behaviors, several published studies have demonstrated that failure to measure these factors properly tends to result in underestimation of condom effectiveness.

Epidemiologic studies provide useful information regarding the magnitude of STD risk reduction associated with condom use. Extensive literature review confirms that the best epidemiologic studies of condom effectiveness address HIV infection. Numerous studies of discordant couples (where only one partner is infected) have shown consistent use of latex condoms to be highly effective for preventing sexually acquired HIV infection. Similarly, studies have shown that condom use reduces the risk of other STDs. However, the overall strength of the evidence regarding the effectiveness of condoms in reducing the risk of other STDs is not at the level of that for HIV, primarily because fewer methodologically sound and well-designed studies have been completed that address other STDs. Critical reviews of all studies, with both positive and negative findings (referenced here) point to the limitations in study design in some studies which result in underestimation of condom effectiveness; therefore, the true protective effect is likely to be greater than the effect observed.

Overall, the preponderance of available epidemiologic studies have found that when used consistently and correctly, condoms are highly effective in preventing the sexual transmission of HIV infection and reduce the risk of other STDs.

The following includes specific information for HIV infection, diseases transmitted by genital secretions, genital ulcer diseases, and HPV infection, including information on laboratory studies, the theoretical basis for protection and epidemiologic studies.

HIV, the virus that causes AIDS

Latex condoms, when used consistently and correctly, are highly effective in preventing the sexual transmission of HIV, the virus that causes AIDS

HIV infection is, by far, the most deadly STD, and considerably more scientific evidence exists regarding condom effectiveness for prevention of HIV infection than for other STDs. The body of research on the effectiveness of latex condoms in preventing sexual transmission of HIV is both comprehensive and conclusive. The ability of latex condoms to prevent transmission of HIV has been scientifically established in "real-life" studies of sexually active couples as well as in laboratory studies.

Laboratory studies have demonstrated that latex condoms provide an essentially impermeable barrier to particles the size of HIV.

Theoretical basis for protection. Latex condoms cover the penis and provide an effective barrier to exposure to secretions such as urethral and vaginal secretions, blocking the pathway of sexual transmission of HIV infection.

Epidemiologic studies that are conducted in real-life settings, where one partner is infected with HIV and the other partner is not, demonstrate that the consistent use of latex condoms provides a high degree of protection.

Other Diseases transmitted by genital secretions, including Gonorrhea, Chlamydia, and Trichomoniasis

Latex condoms, when used consistently and correctly, reduce the risk of transmission of STDs such as gonorrhea, chlamydia, and trichomoniasis.

STDs such as gonorrhea, chlamydia, and trichomoniasis are sexually transmitted by genital secretions, such as urethral or vaginal secretions.

Laboratory studies have demonstrated that latex condoms provide an essentially impermeable barrier to particles the size of STD pathogens.

Theoretical basis for protection. The physical properties of latex condoms protect against diseases such as gonorrhea, chlamydia, and trichomoniasis by providing a barrier to the genital secretions that transmit STD-causing organisms.

Epidemiologic studies that compare infection rates among condom users and nonusers provide evidence that latex condoms can protect against the transmission of STDs such as chlamydia, gonorrhea and trichomoniasis.

Genital ulcer diseases and HPV infections

Genital ulcer diseases and HPV infections can occur in both male and female genital areas that are covered or protected by a latex condom, as well as in areas that are not covered. Consistent and correct use of latex condoms reduces the risk of genital herpes, syphilis, and chancroid only when the infected area or site of potential exposure is protected. Condom use may reduce the risk for HPV infection and HPV-associated diseases (e.g., genital warts and cervical cancer).

Genital ulcer diseases include genital herpes, syphilis, and chancroid. These diseases are transmitted primarily through "skin-to-skin" contact from sores/ulcers or infected skin that looks normal. HPV infections are transmitted through contact with infected genital skin or mucosal surfaces/secretions. Genital ulcer diseases and HPV infection can occur in male or female genital areas that are covered (protected by the condom) as well as those areas that are not.

Laboratory studies have demonstrated that latex condoms provide an essentially impermeable barrier to particles the size of STD pathogens.

Theoretical basis for protection. Protection against genital ulcer diseases and HPV depends on the site of the sore/ulcer or infection. Latex condoms can only protect against transmission when the ulcers or infections are in genital areas that are covered or protected by the condom. Thus, consistent and correct use of latex condoms would be expected to protect against transmission of genital ulcer diseases and HPV in some, but not all, instances.

Epidemiologic studies that compare infection rates among condom users and nonusers provide evidence that latex condoms provide limited protection against syphilis and herpes simplex virus-2 transmission. No conclusive studies have specifically addressed the transmission of chancroid and condom use, although several studies have documented a reduced risk of genital ulcers associated with increased condom use in settings where chancroid is a leading cause of genital ulcers.

Condom use may reduce the risk for HPV-associated diseases (e.g., genital warts and cervical cancer) and may mitigate the other adverse consequences of infection with HPV; condom use has been associated with higher rates of regression of cervical intraepithelial neoplasia (CIN) and clearance of HPV infection in women, and with regression of HPV-associated penile lesions in men. A limited number of prospective studies have demonstrated a protective effect of condoms on the acquisition of genital HPV.

While condom use has been associated with a lower risk of cervical cancer, the use of condoms should not be a substitute for routine screening with Pap smears to detect and prevent cervical cancer, nor should it be a substitute for HPV vaccination among those eligible for the vaccine

Selected References are available at:
www.cdc.gov/condomeffectiveness/references.html

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CONTENT OF AIDS-RELATED WRITTEN MATERIALS,

PICTORIALS, AUDIOVISUALS, QUESTIONNAIRES, SURVEY

INSTRUMENTS, AND EDUCATIONAL SESSIONS IN CENTERS FOR

DISEASE CONTROL AND PREVENTION (CDC) ASSISTANCE PROGRAMS

Interim Revisions June 1992

1. Basic Principles

   Controlling the spread of HIV infection and AIDS requires the promotion of individual behaviors that eliminate or reduce the risk of acquiring and spreading the virus. Messages must be provided to the public that emphasize the ways by which individuals can fully protect themselves from acquiring the virus. These methods include abstinence from the illegal use of IV drugs and from sexual intercourse except in a mutually monogamous relationship with an uninfected partner. For those individuals who do not or cannot cease risky behavior, methods of reducing their risk of acquiring or spreading the virus must also be communicated. Such messages can be controversial. These principles are intended to provide guidance for the development and use of educational materials, and to require the establishment of Program Review Panels to consider the appropriateness of messages designed to communicate with various groups.

   a. Written materials (e.g., pamphlets, brochures, fliers), audio visual materials (e.g., motion pictures and video tapes), and pictorials (e.g., posters and similar educational materialsusing photographs, slides, drawings, or paintings) should use terms, descriptors, or displays necessary for the intended audience to understand dangerous behaviors and explain less risky practices concerning HIV transmission.
   b. Written materials, audiovisual materials, and pictorials should be reviewed by Program Review Panels consistent with the provisions of Section 2500 (b), (c), and (d) of the Public Health Service Act, 42 U.S.C. Section 300ee(b), (c), and (d), as follows:

      "SEC. 2500. USE OF FUNDS.

      (b) CONTENTS OF PROGRAMS. - All programs of education and information receiving funds under this title shall include information about the harmful effects of promiscuous sexual activity and intravenous substance

abuse, and the benefits of abstaining from such activities.

(c) LIMITATION. - None of the funds appropriated to carry out this title may be used to provide education or information designed to promote or encourage, directly, homosexual or heterosexual sexual activity or intravenous substance abuse.

(d) CONSTRUCTION. - Subsection (c) may not be construed to restrict the ability of an education program that includes the information required in subsection (b) to provide accurate information about various means to reduce an individual's risk of exposure to, or to transmission of, the etiologic agent for acquired immune deficiency syndrome, provided that any informational materials used are not obscene."

c. Educational sessions should not include activities in which attendees participate in sexually suggestive physical contact or actual sexual practices.

d. Messages provided to young people in schools and in other settings should be guided by the principles contained in "Guidelines for Effective School Health Education to Prevent the Spread of AIDS" (MMWR 1988;37 [suppl. no. S-2]).

1. Program Review Panel

    a. Each recipient will be required to establish or identify a Program Review Panel to review and approve all written materials, pictorials, audiovisuals, questionnaires or survey instruments, and proposed educational group session activities to be used under the project plan. This requirement applies regardless of whether the applicant plans to conduct the total program activities or plans to have part of them conducted through other organization(s) and whether program activities involve creating unique materials or using/distributing modified or intact materials already developed by others. Whenever feasible, CDC funded community-based organizations are encouraged to use a Program Review Panel established by a health department or another CDC-funded organization rather than establish their own panel. The Surgeon General's Report on Acquired Immune Deficiency Syndrome (October 1986) and CDC-developed materials do not need to be reviewed by the panel unless such review is deemed appropriate by the recipient. Members of a Program Review Panel

should:

(1) Understand how HIV is and is not transmitted; and

(2) Understand the epidemiology and extent of the HIV/AIDS problem in the local population and the specific audiences for which materials are intended.

b. The Program Review Panel will be guided by the CDC Basic Principles (in the previous section) in conducting such reviews. The panel is authorized to review materials only and is not empowered either to evaluate the proposal as a whole or to replace any other internal review panel or procedure of the recipient organization or local governmental jurisdiction.
c. Applicants for CDC assistance will be required to include in their applications the following:

(1) Identification of a panel of no less than five persons which represent a reasonable cross-section of the general population. Since Program Review Panels review materials for many intended audiences, no single intended audience shall predominate the composition of the Program Review panel, except as provided in subsection (d) below. In addition:

(a) Panels which review materials intended for a specific audience should draw upon the expertise of individuals who can represent cultural sensitivities and language of the intended audience either through representation on the panels or as consultants to the panels.

(b) The composition of Program Review Panels, except for panels reviewing materials for school-based populations, must include an employee of a State or local health department with appropriate expertise in the area under consideration who is designated by the health department to represent the department on the panel. If such an employee is not available, an individual with appropriate expertise, designated by the health department to represent the agency in this matter, must serve as a member of the panel.

(c) Panels which review materials for use with school-based populations should include representatives of groups such as teachers, school administrators, parents, and students.

(d) Panels reviewing materials intended for racial and ethnic minority populations must comply with the terms of (a), (b), and (c), above. However, membership of the Program Review Panel may be drawn predominately from such racial and ethnic populations.

(2) A letter or memorandum from the proposed project director, countersigned by a responsible business official, which includes:

(a) Concurrence with this guidance and assurance that its provisions will be observed;

(b) The identity of proposed members of the Program Review Panel, including their names, occupations, and any organizational affiliations that were considered in their selection for the panel.

d. CDC-funded organizations that undertake program plans in other than school-based populations which are national, regional (multi state), or statewide in scope, or that plan to distribute materials as described above to other organizations on a national, regional, or statewide basis, must establish a single Program Review Panel to fulfill this requirement. Such national/regional/State panels must include as a member an employee of a State or local health department, or an appropriate designated representative of such department, consistent with the provisions of Section 2.c.(1). Materials reviewed by such a single (national, regional, or state) Program Review Panel do not need to be reviewed locally unless such review is deemed appropriate by the local organization planning to use or distribute the materials. Such national/regional/State organization must adopt a national/regional/statewide standard when applying Basic Principles 1.a. and 1.b.
e. When a cooperative agreement/grant is awarded, the recipient will:

(1) Convene the Program Review Panel and present for its assessment copies of written materials, pictorials, and audiovisuals proposed to be used;

(2) Provide for assessment by the Program Review Panel text, scripts, or detailed descriptions for written materials, pictorials, or audiovisuals which are under development;

(3) Prior to expenditure of funds related to the ultimate program use of these materials, assure that its project files contain a statement(s) signed by the Program Review Panel specifying the vote for approval or disapproval for each proposed item submitted to the panel; and

(4) Provide to CDC in regular progress reports signed statement(s) of the chairperson of the Program Review Panel specifying the vote for approval or disapproval for each proposed item that is subject to this guidance.

Nonoxynol-9 Spermicide Contraception Use --- United States, 1999

Most women in the United States with human immunodeficiency virus (HIV) become infected through sexual transmission, and a woman's choice of contraception can affect her risk for HIV transmission during sexual contact with an infected partner. Most contraceptives do not protect against transmission of HIV and other sexually transmitted diseases (STDs) (*1*), and the use of some contraceptives containing nonoxynol-9 (N-9) might increase the risk for HIV sexual transmission. Three randomized, controlled trials of the use of N-9 contraceptives by commercial sex workers (CSWs) in Africa failed to demonstrate any protection against HIV infection (*2*--*4*); one trial showed an increased risk (*3*). N-9 contraceptives also failed to protect against infection with *Neisseria gonorrhoeae* and *Chlamydia trachomatis* in two randomized trials (*5*,*6*), one among African CSWs and one among U.S. women recruited from an STD clinic. Because most women in the African studies had frequent sexual activity, had high-level exposure to N-9, and probably were exposed to a population of men with a high prevalence of HIV/STDs, the implications of these studies for U.S. women are uncertain. To determine the extent of N-9 contraceptive use among U.S. women, CDC assessed data provided by U.S. family planning clinics for 1999. This report summarizes the results of that assessment, which indicate that some U.S. women are using N-9 contraceptives. Sexually active women should consider their individual HIV/STD infection risk when choosing a method of contraception. Providers of family planning services should inform women at risk for HIV/STDs that N-9 contraceptives do not protect against these infections.

CDC collected information on types of N-9 contraceptives purchased and family planning program (FPP) guidelines for N-9 contraceptive use. The national FPP, authorized by Title X of the Public Health Service Act, serves approximately 4.5 million predominantly low-income women each year. Program data for 1999 were obtained from all 10 U.S. Department of Health and Human Services (HHS) regions on the number of female clients and the number of female clients who reported use of N-9 contraceptives or condoms as their primary method of contraception. CDC obtained limited purchase data for 1999 for specific N-9 contraceptives and program guidelines from eight state/territorial FPPs within six HHS regions. State health departments, family planning grantees, and family planning councils were contacted to request assistance in collecting data on purchasing patterns of the 91 Title X grantees; of the 12 FPPs that responded, eight provided sufficient data for analysis.

In 1999, a total of 7%--18% of women attending Title X clinics reported using condoms as their primary method of contraception. Data on the percentage of condoms lubricated with N-9 were not available. A total of 1%--5% of all women attending Title X clinics reported using N-9 contraceptives (other than condoms) as their primary method of contraception (Table 1). Among the eight FPPs that provided purchase data, most (87%) condoms were N-9--lubricated (Table 2). All eight FPPs purchased N-9 contraceptives (i.e., vaginal films and suppositories, jellies, creams, and foams) to be used either alone

or in combination with diaphragms or other contraceptive products. Four of the eight clinics had protocols or program guidance stating that N-9--containing foam should be dispensed routinely with condoms; two additional programs reported that despite the absence of a clinic protocol, the practice was common. Data for the other two programs were not available.

Reported by: *The Alan Guttmacher Institute, New York, New York. Office of Population Affairs, U.S. Dept of Health and Human Services, Bethesda, Maryland. A Duerr, MD, C Beck-Sague, MD, Div Reproductive Health, National Center Chronic Disease and Public Health Promotion; Div of HIV and AIDS Prevention, National Center HIV/AIDS, STDs, and TB Prevention; B Carlton-Tohill, EIS Officer, CDC.*

Editorial Note:

The findings in this report indicate that in 1999, before the release of recent publications on N-9 and HIV/STDs (*4,6,*7), Title X family planning clinics in the U.S. purchased and distributed N-9 contraceptives. Among at least eight family planning clinics, most of the condoms purchased were N-9--lubricated; this is consistent with trends in condom purchases among the general public (*8*). The 2002 STD treatment guidelines state that condoms lubricated with spermicides are no more effective than other lubricated condoms in protecting against the transmission of HIV infection and other STDs (7). CDC recommends that previously purchased condoms lubricated with N-9 spermicide continue to be distributed provided the condoms have not passed their expiration date. The amount of N-9 on a spermicide-lubricated condom is small relative to the doses tested in the studies in Africa and the use of N-9--lubricated condoms is preferable to using no condom at all. In the future, purchase of condoms lubricated with N-9 is not recommended because of their increased cost, shorter shelf life, association with urinary tract infections in young women, and lack of apparent benefit compared with other lubricated condoms (7).

Spermicidal gel is used in conjunction with diaphragms (*1*); only diaphragms combined with the use of spermicide are approved as contraceptives. The respective contributions of the physical barrier (diaphragm) and chemical barrier (spermicide) are unknown, but the combined use prevents approximately 460,000 pregnancies in the United States each year (*1*).

The findings in this report are subject to at least two limitations. First, data on specific products and patterns of contraceptive use were limited; CDC used a nonrepresentative sample of regions and states that voluntarily provided data, and specific use patterns of the contraceptives could not be extrapolated from these data. Second, data correlating use of N-9 contraceptives with individual HIV risk were not available.

Prevention of both unintended pregnancy and HIV/STD infection among U.S. women is needed. In 1994, a total of 49% of all pregnancies were unintended (*9*). Furthermore, 26% of women experience an unintended pregnancy during the first year of typical use of spermicide products (*1*). In 1999, a total of 10,780 AIDS cases, 537,003 chlamydia cases,

and 179,534 gonorrhea cases were reported among U.S. women. Contraceptive options should provide both effective fertility control and protection from HIV/STDs; however, the optimal choice is probably not the same for every woman.

N-9 alone is not an effective means to prevent infection with HIV or cervical gonorrhea and chlamydia (*2*,*7*). Sexually active women and their health-care providers should consider risk for infection with HIV and other STDs and risk for unintended pregnancy when considering contraceptive options. Providers of family planning services should inform women at risk for HIV/STDs that N-9 contraceptives do not protect against these infections. In addition, women seeking a family planning method should be informed that latex condoms, when used consistently and correctly, are effective in preventing transmission of HIV and can reduce the risk for other STDs.

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Table 1

TABLE 1. Number of women using male condoms or nonoxynol-9 (N-9) products as their primary method of contraception, by Title X Family Planning Region — United States, 1999

Region*	No. of women served	Male condoms		N-9 products†	
		No.	(%)	No.	(%)
I	179,705	27,726	(15)	1,251	(1)
II	404,325	73,069	(18)	21,515	(5)
III	487,502	73,088	(15)	4,807	(1)
IV	1,011,126	93,011	(9)	29,630	(3)
V	522,312	61,756	(12)	2,489	(1)
VI	478,533	40,520	(8)	11,212	(2)
VII	238,971	15,949	(7)	1,386	(1)
VIII	133,735	15,131	(11)	4,885	(4)
IX	672,362	109,678	(17)	14,547	(2)
X	186,469	17,320	(9)	1,275	(2)
Total	**4,315,040**	**527,248**	**(12)**	**92,997**	**(2)**

* Region I=Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont; Region II=New Jersey, New York, Puerto Rico, Virgin Islands; Region III=Delaware, District of Columbia, Maryland, Pennsylvania, Virginia, West Virginia; Region IV=Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee; Region V=Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin; Region VI=Arkansas, Louisiana, New Mexico, Oklahoma, Texas; Region VII=Iowa, Kansas, Missouri, Nebraska; Region VIII=Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming; Region IX=Arizona, California, Hawaii, Nevada, American Samoa, Guam, Mariana Islands, Marshall Islands, Micronesia, Palau; Region X=Alaska, Idaho, Oregon, Washington.

† Primary method of contraception reported by these women was one of the following: spermicidal foam, cream, jelly (with and without diaphragm), film, or suppositories.

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Table 2

TABLE 2. Number of nonoxynol-9 (N-9) contraceptives purchased by Title X Family Planning Programs in selected states/territories, 1999

State/territory	No. of clients served	Physical barrier method		N-9 chemical barrier methods				
		Condoms with N-9	Condoms without N-9	Gel	Vaginal		Jelly	Foam
					Film	Insert		
Puerto Rico	15,103	148,072	5,000	12,900	0	NA*	12,841	2,400
New York†	283,200	1,936,084	NA	0	73,788	NA	3,112	23,830
West Virginia	60,899	1,300,000	9,360	0	0	NA	1,200	9,900
Florida	193,784	3,920,000	560,000	0	468,720	NA	5,760	25,920
Tennessee	111,223	2,865,160§	717,088	0	94,500	12,528	756	2,758
Michigan	166,893	631,000	254,000	0	0	NA	1,000	1,200
Oklahoma	58,392	708,480	0	0	394,560	NA	1,200	0
Oregon	57,099	151,900	276,000	345	25,764	2,074	272	3,007

* Not available.

† 41 of 61 grantees responded.

§ Purchasing by family planning and sexually transmitted disease programs are combined and cannot be separated.

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Notice to Readers: CDC Statement on Study Results of Product Containing Nonoxynol-9

During the XIII International AIDS Conference held in Durban, South Africa, July 9--14, 2000, researchers from the Joint United Nations Program on AIDS (UNAIDS) presented results of a study of a product, COL-1492,* which contains nonoxynol-9 (N-9) (*1*). N-9 products are licensed for use in the United States as spermicides and are effective in preventing pregnancy, particularly when used with a diaphragm. The study examined the use of COL-1492 as a potential candidate microbicide, or topical compound to prevent the transmission of human immunodeficiency virus (HIV) and sexually transmitted diseases (STDs). The study found that N-9 did not protect against HIV infection and may have caused more transmission. The women who used N-9 gel became infected with HIV at approximately a 50% higher rate than women who used the placebo gel.

CDC has released a "Dear Colleague" letter that summarizes the findings and implications of the UNAIDS study. The letter is available on the World-Wide Web, http://www.cdc.gov/hiv; a hard copy is available from the National Prevention Information Network, telephone (800) 458-5231. Future consultations will be held to re-evaluate guidelines for HIV, STDs, and pregnancy prevention in populations at high risk for HIV infection. A detailed scientific report will be released on the Web when additional findings are available.

Reference

1. van Damme L. Advances in topical microbicides. Presented at the XIII International AIDS Conference, July 9--14, 2000, Durban, South Africa.

* Use of trade names and commercial sources is for identification only and does not constitute endorsement by CDC or the U.S. Department of Health and Human Services.