# HIV/AIDS among Youth



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June 2006

Young people in the United States are at persistent risk for HIV infection. This risk is especially notable for youth of minority races and ethnicities. Continual HIV prevention outreach and education efforts, including programs on abstinence and on delaying the initiation of sex, are required as new generations replace the generations that benefited from earlier prevention strategies. Unless otherwise noted, this fact sheet defines youth, or young people, as persons who are 13–24 years of age.

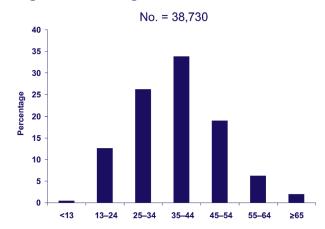
## STATISTICS HIV/AIDS in 2004

The following are based on data from the 35 areas with long-term, confidential name-based HIV reporting.\*

- An estimated 4,883 young people received a diagnosis of HIV infection or AIDS, representing about 13% of the persons given a diagnosis during that year [1].
- HIV infection progressed to AIDS more slowly among young people than among all persons with a diagnosis of HIV infection. The following are the proportions of persons in whom HIV infection did not progress to AIDS within 12 months after diagnosis of HIV infection:
  - 81% of persons aged 15-24
  - 70% of persons aged 13-14
  - 61% of all persons
- African Americans were disproportionately affected by HIV infection, accounting for 55% of

- all HIV infections reported among persons aged 13–24 [2].
- Young men who have sex with men (MSM), especially those of minority races or ethnicities, were at high risk for HIV infection. In the 7 cities that participated in CDC's Young Men's Survey during 1994–1998, 14% of African American MSM and 7% of Hispanic MSM aged 15–22 were infected with HIV [3].
- During 2001–2004, in the 33 states with long-term, confidential name-based HIV reporting, 62% of the 17,824 persons 13–24 years of age given a diagnoses of HIV/AIDS were males, and 38% were females.

### Age of persons with HIV infection or AIDS diagnosed during 2004



Note. Based on data from 35 areas with long-term, confidential name-based HIV reporting.

### **AIDS in 2004**

 An estimated 2,174 young people received a diagnosis of AIDS (5.1% of the estimated total

<sup>\*</sup>See box on page 5 for a list of the 35 areas.

of 42,514 AIDS diagnoses), and 232 young people with AIDS died [1].

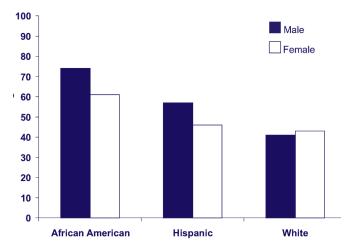
- An estimated 7,761 young people were living with AIDS, a 42% increase since 2000, when 5,457 young people were living with AIDS [1].
- Young people for whom AIDS was diagnosed during 1996–2004 lived longer than persons with AIDS in any other age group except those younger than 13 years. Nine years after receiving a diagnosis of AIDS, 76% of those aged 13–24 were alive, compared with
  - 81% of those younger than age 13
  - 74% of those aged 25–34
  - 70% of those aged 35-44
  - 63% of those aged 45–54
  - 53% of those aged 55 and older [1].
- Since the beginning of the epidemic, an estimated 40,059 young people in the United States had received a diagnosis of AIDS, and an estimated 10,129 young people with AIDS had died. They accounted for about 4% of the estimated total of 944,306 AIDS diagnoses and 2% of the 529,113 deaths of people with AIDS [1].

### RISK FACTORS AND BARRIERS TO PREVENTION

### **Sexual Risk Factors**

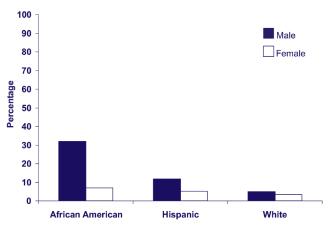
Early age at sexual initiation. According to CDC's Youth Risk Behavioral Survey (YRBS), many young people begin having sexual intercourse at early ages: 47% of high school students have had sexual intercourse, and 7.4% of them reported first sexual intercourse before age 13 [4]. HIV/AIDS education needs to take place at correspondingly young ages, before young people engage in sexual behaviors that put them at risk for HIV infection.

### High school students reporting ever having had sexual intercourse, 2003



Source. CDC's Youth Risk Behavioral Survey, 2003. (See reference 4.)

# High school students reporting sexual intercourse for the first time before age 13, 2003



Source. CDC's Youth Risk Behavioral Survey, 2003. (See reference 4.)

Heterosexual transmission. Young women, especially those of minority races or ethnicities, are increasingly at risk for HIV infection through heterosexual contact. According to data from a CDC study of HIV prevalence among disadvantaged youth during the early to mid-1990s, the rate of HIV prevalence among young women aged 16–21 was 50% higher than the rate among young men in that age group [5]. African American women in this study were 7 times

as likely as white women and 8 times as likely as Hispanic women to be HIV-positive. Young women are at risk for sexually transmitted HIV for several reasons, including biologic vulnerability, lack of recognition of their partners' risk factors, inequality in relationships, and having sex with older men who are more likely to be infected with HIV.

**MSM.** Young MSM are at high risk for HIV infection, but their risk factors and the prevention barriers they face differ from those of persons who become infected through heterosexual contact. According to a CDC study of 5,589 MSM, 55% of young men (aged 15-22) did not let other people know they were sexually attracted to men [6]. MSM who do not disclose their sexual orientation are less likely to seek HIV testing. so if they become infected, they are less likely to know it. Further, because MSM who do not disclose their sexual orientation are likely to have 1 or more female sex partners, MSM who become infected may transmit the virus to women as well as to men. In a small study of African American MSM college students and nonstudents in North Carolina, the participants had sexual risk factors for HIV infection, and 20% had a female sex partner during the preceding 12 months [7].

Sexually transmitted diseases (STDs). The presence of an STD greatly increases a person's likelihood of acquiring or transmitting HIV [8]. Some of the highest STD rates in the country are those among young people, especially young people of minority races and ethnicities [9].

### **Substance Use**

Young people in the United States use alcohol, tobacco, and other drugs at high rates [10]. Both casual and chronic substance users are more likely to engage in high-risk behaviors, such as unprotected sex, when they are under the influence of drugs or alcohol [11]. Runaways and other homeless young people are at high risk for HIV infection if they are exchanging sex for drugs or money.

### **Lack of Awareness**

Research has shown that a large proportion of young people are not concerned about becoming infected with HIV [12]. Adolescents need accurate, age-appropriate information about HIV infection and AIDS, including how to talk with their parents or other trusted adults about HIV and AIDS, how to reduce or eliminate risk factors, how to talk with a potential partner about risk factors, where to get tested for HIV, how to use a condom correctly. Information should also include the concept that abstinence is the only 100% effective way to avoid infection.

### Poverty and Out-of-School Youth

Nearly 1 in 4 African Americans and 1 in 5 Hispanics live in poverty [13]. The socioeconomic problems associated with poverty, including lack of access to high-quality health care, can directly or indirectly increase the risk for HIV infection [14]. Young people who have dropped out of school are more likely to become sexually active at younger ages and to fail to use contraception [15].

### The Coming of Age of HIV-Positive Children

Many young people who contracted HIV through perinatal transmission are facing decisions about becoming sexually active. They will require ongoing counseling and prevention education to ensure that they do not transmit HIV.

### **PREVENTION**

In the United States, the annual number of new HIV infections has declined from a peak of more than 150,000 in the mid-1980s and has stabilized since the late 1990s at approximately 40,000. Populations of minority races or ethnicities are disproportionately affected by the HIV epidemic. To reduce further the incidence of HIV, CDC announced a new initiative, Advancing HIV Prevention (http://www.cdc.gov/hiv/topics/prev\_prog/AHP), in 2003. This initiative comprises

4 strategies: making HIV testing a routine part of medical care, implementing new models for diagnosing HIV infections outside medical settings, preventing new infections by working with HIV-infected persons and their partners, and further decreasing perinatal HIV transmission.

Through the Minority AIDS Initiative (http://www.cdc.gov/programs/hiv08.htm), CDC explores ways to reduce health disparities in communities made up of persons of minority races or ethnicities who are at high risk for HIV. These funds are used to address the high-priority HIV prevention needs in such communities.

CDC provides 9 awards to community-based organizations (CBOs) that focus primarily on youth and provides indirect funding through state, territorial, and local health departments to organizations serving youth. Of these 9 awards, 5 are focused on African Americans, 3 on Hispanics, 1 on Asians and Pacific Islanders, and 1 on whites. The following are some CDC-tested prevention programs that state and local health departments and CBOs can provide for youth.

- Teens Linked to Care is focused on young people aged 13–29 who are living with HIV.
- Street Smart is an HIV/AIDS and STD prevention program for runaway and homeless youth.
- PROMISE (Peers Reaching Out and Modeling Intervention Strategies for HIV/AIDS Risk Reduction in their Community) is a communitylevel HIV prevention intervention that relies on role-model stories and peers from the community.
- Adult Identity Mentoring project, which encourages students to articulate personal goals and then teaches them the skills required to achieve those goals, can be effective in helping at-risk youth delay the initiation of sex [16].

CDC research has shown that early, clear parentchild communication regarding values and expectations about sex is an important step in helping adolescents delay sexual initiation and make responsible decisions about sexual behaviors later in life. Parents are in a unique position to engage their children in conversations about HIV, STD, and teen pregnancy prevention because the conversations can be ongoing and timely [17].

Schools also can be important partners for reaching youth before high-risk behaviors are established, as evidenced by the YRBS finding that 88% of high school students in the United States reported having been taught about AIDS or HIV infection in school.

Overall, a multifaceted approach to HIV/AIDS prevention, which includes individual, peer, familial, school, church, and community programs, is necessary to reduce the incidence of HIV/AIDS in young people. For Guidelines for Effective School Health Education to Prevent the Spread of AIDS, visit http://www.cdc.gov/HealthyYouth/sexualbehaviors/guidelines/guidelines.htm.

### **REFERENCES**

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### Understanding HIV and AIDS Data

AIDS surveillance: Through a uniform system, CDC receives reports of AIDS cases from all US states and territories. Since the beginning of the epidemic, these data have been used to monitor trends because they are representative of all areas. The data are statistically adjusted for reporting delays and for the redistribution of cases initially reported without risk factors. As treatment has become more available, trends in new AIDS diagnoses no longer accurately represent trends in new HIV infections; these data now represent persons who are tested late in the course of HIV infection, who have limited access to care, or in whom treatment has failed.

**HIV surveillance:** Monitoring trends in the HIV epidemic today requires collecting information on HIV cases that have not progressed to AIDS. Areas with confidential name-based HIV infection reporting requirements use the same uniform system for data collection on HIV cases as for AIDS cases. A total of 35 areasthe US Virgin Islands, Guam, and 33 states (Alabama, Alaska, Arizona, Arkansas, Colorado, Florida, Idaho, Indiana, Iowa, Kansas, Louisiana, Michigan, Minnesota, Mississippi, Missouri, Nebraska, Nevada, New Jersey, New York, New Mexico, North Carolina, North Dakota, Ohio, Oklahoma, South Carolina, South Dakota, Tennessee, Texas, Utah, Virginia, West Virginia, Wisconsin, and Wyoming)—have collected these data for at least 5 years, providing sufficient data to monitor HIV trends and to estimate risk behaviors for HIV infection. Recently, 9 additional areas have begun confidential name-based HIV surveillance, and data from these areas will be included in coming years.

*HIV/AIDS*: This term includes persons with a diagnosis of HIV infection (not AIDS), a diagnosis of HIV infection and a later diagnosis of AIDS, or concurrent diagnoses of HIV infection and AIDS.

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#### For more information . . .

#### **CDC HIV/AIDS**

http://www.cdc.gov/hiv
CDC HIV/AIDS resources

### CDC-INFO

1-800-232-4636

Information about personal risk and where to get an HIV test

#### **CDC National HIV Testing Resources**

http://www.hivtest.org
Location of HIV testing sites

### CDC National Prevention Information Network (NPIN)

1-800-458-5231

http://www.cdcnpin.org
CDC resources, technical assistance, and publications

#### **AIDSinfo**

1-800-448-0440

http://www.aidsinfo.nih.gov Resources on HIV/AIDS treatment and clinical trials