AIDS in America — Forgotten but Not Gone
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Over the past decade, limited attention has been paid to the human immunodeficiency virus (HIV) epidemic in the United States. The global epidemic — particularly the epidemic in sub-Saharan Africa, where approximately two thirds of the world's population living with AIDS resides — has rightfully received most of the focus. Meanwhile, however, the prevalence of HIV infection within some U.S. populations now rivals that in some sub-Saharan African countries (see graph). For example, more than 1 in 30 adults in Washington, D.C., are HIV-infected — a prevalence higher than that reported in Ethiopia, Nigeria, or Rwanda. Certain U.S. subpopulations are particularly hard hit. In New York City, 1 in 40 blacks, 1 in 10 men who have sex with men, and 1 in 8 injection-drug users are HIV-infected, as are 1 in 16 black men in Washington, D.C. In several U.S. urban areas, the HIV prevalence among men who have sex with men is as high as 30% — as compared with a general-prevalence of 7.8% in Kenya and 16.9% in South Africa.

During the first two decades of the epidemic, remarkable advances in preventing mother-to-child transmission, screening of blood and blood products, and behavior change among men who have sex with men resulted in significant decreases in new HIV infections in the United States — from approximately 130,000 in 1984 to about 60,000 in 1991. For the past decade, however, progress has been stalled. It had been anticipated that effective antiretroviral therapy, with its suppressive effect on viral replication, would reduce the overall rate of new infections, but this expectation has not been realized. More than half a million Americans became infected with HIV in the past decade, including about 56,000 in the past year. It is estimated that there are now more than 1 million HIV-infected Americans, more than 20% of whom are unaware of their infection.

Unlike the generalized HIV epidemics in sub-Saharan Africa, the U.S. epidemic primarily affects certain discrete geographic areas — especially urban areas of the Northeast and West Coast and cities and small towns in the South (see U.S. map). Within these areas, specific neighborhoods are often disproportionately affected (see New York City map), in part because of residents’ engagement in unprotected sex within relatively insular social-sexual networks.
Many of the populations most affected tend to have limited social mobility; thus, partner selection tends to concentrate transmission patterns and amplify spread within defined geographic areas.

Traditionally, researchers and policymakers concerned with HIV acquisition have concentrated on specific high-risk transmission behaviors, including injection-drug use, sex with multiple partners, and failure to use protective measures such as condoms or safe injection practices. It is now evident that among men who have sex with men, the use of drugs such as crystal methamphetamine — especially at sex parties and in venues such as bathhouses — has contributed to risky behavior and HIV acquisition. Other disinhibiting substances, including alcohol and cocaine, are also associated with increased risk taking in these populations.

However, the extent of the risk of acquiring HIV in the United States today is largely defined by a person’s sexual network rather than his or her individual behaviors. Understanding the context and settings in which risk is increased may lead to more robust and effective preventive interventions. For example, black men who have sex with men are at increased risk for HIV infection in part because of its high prevalence in their sexual networks and their likelihood of choosing racially similar partners; they have also been shown to be less likely than their white counterparts to be aware of their HIV status and thus are more likely to unknowingly transmit HIV. Moreover, even those who are aware of their HIV infection may be less engaged in HIV care and less likely to avail themselves of antiretroviral therapy — behavior that limits the potential benefit of such therapy as a preventive strategy.

The situation is similar for black and Hispanic women, whose increased risk of HIV acquisition is attributable in greater part to their vulnerable social and economic situations and their sexual networks than to their own risky behaviors. Socioeconomic disadvantage and instability of partnerships due to high rates of incarceration among men in their communities may lead women to engage in concurrent relationships or serial monogamy. In addition, they may be unaware of their partners’ HIV status or may be involved in abusive or economically dependent relationships and thus be unable to negotiate safer sex with their partners.

The specific characteristics of the U.S. HIV epidemic — low prevalence in the general population, high prevalence among the disenfranchised and socially marginalized, with a concentration in geographic hotspots — in combination with the various structural impediments to prevention create unique challenges for the design and implementation of effective interventions. Thus, a nuanced and targeted approach that avoids stigmatization of these populations is necessary. Structural interventions might include tackling the disproportionate incarceration of black and Hispanic men, urging health insurers to reimburse providers for preventive care, and using microcredit to help women out of poverty so that they avoid the perceived need to engage in commercial sex or other coercive sex.

Research tailored to specific
populations is required if we are to gain the understanding needed to move forward. For example, how do we identify those people in the United States who are at greatest risk for HIV acquisition, especially among women? Although more than a quarter of new HIV infections in the United States occur in women (predominantly black or Hispanic women), identifying such at-risk women to engage them in prevention studies has proven particularly challenging. Research is also needed to identify interventions that will persuade men who have sex with men to undergo HIV testing, facilitate their disclosure of their HIV status to sexual partners, and promote negotiations for safer sexual practices; such interventions need to be implemented in the settings where such men may meet (e.g., in bars or on the Internet). Additional qualitative research is needed to understand how the targeted community uses various sources of information in making decisions about sexual risk taking.

Most glaringly, HIV disproportionately affects poor black Americans who have substandard education, unstable housing, and limited social mobility. This confluence of factors may result in high rates of incarceration, which threaten a community's social
Such vulnerable populations must be engaged in research, program development, and interventions that are culturally relevant and address the socioeconomic milieu in which HIV transmission occurs.

Preventive interventions must be rooted in science, not driven by ideological concerns. Homophobia may have impeded the development of sexually appropriate prevention studies among men who have sex with men. Reluctance to fund studies of needle exchange or conditional cash transfer (providing financial incentives for healthy behavior) or to support work in high-risk venues, such as bathhouses, has hampered progress. Cash transfer has proved effective in achieving desirable health outcomes, including weight control, smoking cessation, and decreased use of crystal methamphetamine, but until recently it was not being studied for use in HIV prevention in the United States.

What will it take to control the U.S. HIV epidemic? First, there is an urgent need to acknowledge that HIV remains a major health threat in the United States. Second, concerted effort and substantial resource investment — especially in innovative and courageous approaches — are necessary. Focused studies of the sociocultural dynamics that facilitate transmission are needed, as well as large studies assessing the effectiveness of multidimensional interventions, including behavioral, biomedical, and structural components. Disenfranchised communities must be engaged as partners in such efforts, along with new researchers drawn from the affected populations, if the nuances of local epidemics are to be addressed. The time has come to confront this largely forgotten and hidden epidemic.

Disclosure forms provided by the authors are available with the full text of this article at NEJM.org.

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