

AIDS in South and Southeast Asia

Preventing Transmission of HIV: A Biological and Medical Perspective*

MYRON S. COHEN, M.D.

IN MY COMMENTS I will summarize our understanding of the transmission of HIV, and describe how this knowledge has been used to develop prevention strategies—many of which have already been used successfully.

The probability of transmission of HIV depends on the route. HIV-contaminated blood used for a transfusion is still a problem in some resource poor countries, and causes infection more than 90% of the time. In contrast, someone stuck with a contaminated needle has only a 1/300 chance of acquiring HIV. The chance of HIV transmission during childbirth is about 30%. The chances of acquiring HIV from sexual exposure is highly variable, but is often very inefficient, so that dozens or even hundreds of episodes of intercourse appear to be required for transmission to occur. This ought to be surprising since HIV is first and foremost an STD! More than 70% of HIV is sexually transmitted.

Given the relative inefficiency of the sexual transmission of HIV, how can we explain the magnitude of the HIV epidemic? Other factors must define the epidemic. These include the duration of time a person remains contagious, and the number of people exposed. Indeed, we can multiply these factors together to predict the spread of HIV. Thus, the ferocity of the AIDS epidemic is not because the virus is so

easily transmitted. Rather, it is because of the many years that infected people remain sexually active, and because of the large number of different sexual encounters that might occur, particularly where commercial sex work is common.

Now let's look more closely at sexual transmission of HIV by both the infectiousness of the HIV carrier, and the susceptibility of the person exposed.

Infectiousness of HIV is determined by the amount of virus in the blood or genital secretions, and special features of the viral swarm which can render the virus either more or less contagious. Higher concentrations of HIV in blood and genital secretions greatly increase the chance for HIV transmission. Many experts believe that the type of virus found in Sub-Saharan Africa, which is different than the virus found in the United States, is more contagious. The HIV virus in China, as you will hear from Dr. Shao Yiming, is unfortunately caused by a virus similar to that found in Sub-Saharan Africa.

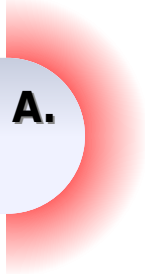
Not everyone is equally susceptible to HIV. Indeed, here are three kinds of resistance to HIV: hereditary, innate, and acquired. Hereditary resistance is observed in about 1/100 Caucasians who have cells that cannot be readily infected with the virus because of a genetic

Department of Microbiology and Immunology, Division of Infectious Diseases, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

*Presented at the observance of World AIDS Day, November 30, 2000 at the United Nations.

Preventing Aids A Programmatic Perspective

**Sevgi O. Aral, Kevin A. Fenton, Judith A.
Lipshutz**



Preventing Aids A Programmatic Perspective:

Preventing Aids Seth C. Kalichman, 2014-02-25 This book provides a comprehensive overview of behavioral interventions to prevent HIV AIDS risk related behaviors It synthesizes the empirical literature on individual group and community level interventions and provides an objective and detailed assessment of intervention outcomes Factors associated with behavioral risk for HIV transmission theories of HIV risk behavior change and the state of HIV prevention technology transfer are also reviewed Additionally behavioral interventions for adolescents and adults of diverse ethnic and sexual backgrounds are discussed with respect to each intervention type Although the focus is on sexual risk reduction interventions for sexual behavior of substance abusing populations are also covered *Practice Guidelines for Harmonizing HIV Prevention Initiatives in the Infrastructure Sector* Asian Development Bank, 2010-10-01 Development partners have recognized the obligation to mitigate HIV risks associated with infrastructure development as an opportunity to contribute to the fight against HIV AIDS and poverty in the Greater Mekong Subregion Development partners agreed to strengthen inter agency cooperation and harmonization to scale up and enhance the effectiveness of HIV and AIDS prevention in future infrastructure interventions To achieve this they jointly developed a set of practice guidelines that can provide some standardization of effective program elements focusing on three different but interacting populations sex and entertainment workers local communities impacted by infrastructure development and migrant workers **Dawning Answers** Ronald O. Valdiserri, 2003 Dawning Answers looks at the global HIV AIDS epidemic through the lens of its evolving influence on public health theory and practice Losses from the epidemic have been devastating but the many lesson learned have positively influenced other domains of public health and will continue to generate new approaches to health assessment policy development and assurance Students and teachers of public health and preventive medicine will find in this singular volume useful analyses from the various disciplines comprising public health **AIDS Bibliography**, 1990 **Preventing AIDS** Ralph J. DiClemente, John L. Peterson, 2013-06-29 Public health has a legacy of neglect regarding social and behavioral research Too often prompted by technical and scientific progress we have ignored even marginalized the vital human element in health thinking and practice Thus for example while family planning programs focused on providing a choice among safe and effective contraceptive methods a supremely worthy goal the central issue of sexuality and sexual behavior was generally neglected Similarly the enormous and important efforts to develop rapid and reliable diagnostic and treatment methods for sexually transmitted diseases helped divert attention away from the crucial issues of sexual practice In short we seem to have difficulty addressing the fundamental behaviors including sex drug taking and other intoxications and violence that are central to the major causes of preventable morbidity disability and premature mortality in the world today Our collective reluctance to examine and understand ourselves is also expressed in the oft repeated pipedream that scientific progress will take care of the HIV AIDS pandemic by delivering a preventive vaccine an effective cure or both Yet even a cursory glance at

the relationship between scientific technical progress and health shows that meeting the scientific challenges is only one step toward effective application of the vaccine or drug. It is typical, not atypical, that hepatitis B vaccine is only now becoming relatively freely available to large populations in the developing world more than a decade after the vaccine's licensure.

Progress in Preventing AIDS? David Ross Buchanan, George Peter Cernada, 2019-03-19. Originally published in the International Quarterly of Community Health Education, this work presents twenty-one chapters about the state of HIV/AIDS prevention programs in a global context. **Proceedings of the 1st National Conference on Alcohol and Drug Abuse Prevention**, 1987.

Women at Risk: Issues in the Primary Prevention of AIDS Ann O'Leary, Loretta Sweet Jemmott, 1995-09-30. Women comprise the group that is rapidly becoming infected with HIV, and while some prevention efforts show signs of promise, many unresolved issues remain. This pivotal volume presents up-to-date research findings offering an in-depth look into issues germane to preventing AIDS in women. Eminent researchers and health care providers focus on specific groups of women based on ethnicity, relationship factors, and behavior. Health of HIV Infected People Ronald Ross Watson, 2015-04-29. Health of HIV Infected People: Food, Nutrition, and Lifestyle Without Antiretroviral Drugs defines the supportive roles of bioactive foods, exercise, and dietary supplements on the health of HIV-infected people who do not have access to resources or those who choose not to utilize antiretroviral drugs. Approaches such as the application of traditional herbs and foods are given careful definition by experts who define the risks and benefits of such practices within this important context. Readers learn how to treat or ameliorate the effects of chronic retroviral disease using readily available, cheap foods and dietary supplements. Ultimately, this work delivers a current, concise scientific appraisal of the efficacy of key foods, nutrients, dietary plants, and behavioral changes in preventing and improving the quality of life of HIV-infected infants and adults who are not undergoing antiretroviral therapy. Covers the role of nutrients in the prevention and treatment of HIV-induced physiological changes. Delivers important coverage on the relationship between HIV infection and infant feeding practice along with public health policy recommendations in social and cultural context. Provides coverage of fitness and exercise regimens, physical activity, and behavioral and lifestyle changes on HIV-infected individuals. Explores food and treatment of obesity, diabetes, and cardiovascular disease in HIV-infected patients, including those without antiretroviral therapeutic treatment. **The New Public Health and STD/HIV Prevention** Sevgi O. Aral, Kevin A. Fenton, Judith A. Lipshutz, 2012-12-09. Despite effective approaches to prevention, STD and HIV infection rates remain fairly constant. Targeting implementation and monitoring of interventions have posed widespread problems, and the recent spate of cuts to prevention budgets has made these roadblocks even more challenging. It is clear that working in sexual health requires both a deeper understanding of STI/HIV epidemiology and an ongoing quest for up-to-date, realistic prevention strategies. The New Public Health and STD/HIV Prevention offers readers leading-edge access to both. Focusing on social determinants of sexual health at risk populations, critical factors in approaches to prevention, and reviews of new research, this authoritative volume

explores areas as varied as HPV prevention technology based interventions migration as a factor in disease transmission and competencies key to effective leadership in the field Dispatches from the frontlines of theory research and practice in the U S and abroad include Personal risk public impact balancing individual rights and STD HIV prevention Distribution of prevention resources and its impact on sexual health Prevention measures in diverse populations of women Toward a better approach to preventive interventions with men who have sex with men Adolescent sexual health and STIs Reducing disparities in sexual health lessons from the campaign to eliminate infectious syphilis Public health professionals of all backgrounds interested in or working in improving sexual health will find The New Public Health and STD HIV Prevention an indispensable guide to conceptualizing the problems and clarifying possible solutions

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