Melding biomedical and behavioral sciences in a revolutionary model for research into the prevention and control of sexually transmitted diseases

CONDENSED CONTENTS

The Importance of an Interdisciplinary Approach to Prevention of Sexually Transmitted Diseases (Spurlock and Aral)

Biology, Clinical Manifestations, and Epidemiology of Sexually Transmitted Diseases Including HIV Infection. Implications for Interventions and Behavioral Research (3 chapters by Jones and Wasserheit, Anderson, and Brancham and Ronald)

Behavioral Risk Factors for Sexually Transmitted Diseases Including HIV Infection (6 chapters by Padian et al., Elebana and Wasserheit, Corbello et al., Amaro and Gorenstein, Aral et al., and Jaccard and Wilson)

Approaches to Changing Human Behaviors: Implications for Design of Interventions for Control of Sexually Transmitted Diseases Including HIV Infection (4 chapters by Holtz, Smith, Fishbein et al., and Newman et al.)

Behavioral Interventions for Prevention and Control of Sexually Transmitted Diseases Including HIV Infection (5 chapters by Hook, Plot and Ieages, Judson and Prentice, Holmes and Aral, and Green and Washington)

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his fascinating monograph is a collaborative effort by an interdisciplinary group of experts in behavioral sciences, sexually transmitted diseases (STDs), epidemiology, biostatistics, clinical trials, and health education from throughout the world, brought together under the auspices of the National Institute of Allergy and Infectious Diseases. Their common goal was to define a revolutionary new agenda for intervention-oriented behavioral research into the prevention and control of STDs, including HIV infection. Their strong belief is that exciting new advances can be made in the field of STD research when the entire constellation of factors determining the incidence and natural history of these diseases is addressed, including the biological characteristics of the host, the biochemical and physical properties of the causative agent or pathogen, and the broad range of human behaviors that come into play.

The contributors have successfully bridged the languages and paradigms of disparate research fields to achieve the interdisciplinary communication necessary to promote collaboration among workers in the clinical and social sciences. Some chapters focus on providing behavioral scientists with backgroud information on biological aspects of these diseases; in others, biomedical investigators are introduced to the theoretical frameworks that are relevant in designing behavioral interventions. A glossary further facilitates reading by scientists from a diverse range of disciplines.

This monograph was written to assist other biomedical and behavioral scientists in both industrialized and developing countries in addressing STD research through interdisciplinary approaches. It is intended not only for established investigators but for students of a wide range of clinical and social sciences.

Edited by Judith N. Wasserheit, National Institute for Allergy and Infectious Diseases, Bethesda, Maryland; Seygi O. Aral, Centers for Disease Control, Atlanta, Georgia; and King K. Holmes, University of Washington Center for AIDS and STDs, Seattle. Associate editor, Penelope J. Hitchcock, National Institute for Allergy and Infectious Diseases, Bethesda, Maryland.
Viruses That Affect the Immune System

Edited by Hung Y. Fan, Cancer Research Institute, University of California, Irvine; Irvin S. Y. Chen, UCLA School of Medicine, Los Angeles, California; Naomi Rosenberg, Tufts University School of Medicine, Boston, Massachusetts; and William Sugden, McArdle Laboratory, University of Wisconsin, Madison

Viral infections in humans or animals almost always affect the host’s immune system. In most cases, the immune system responds by developing a humoral or cell-mediated response, but some viruses can infect immune system cells, causing abnormalities such as autoimmunity, malignancy, or immunodeficiency. Understanding the properties of these viruses, particularly with regard to cells of the immune system, is important to elucidating the mechanisms by which they cause immunological damage.

Many of the viruses that cause immune system abnormalities are retroviruses or herpesviruses. The book commences with the editors' introductory overview of these major immune system viruses, then continues with four comprehensive sections on their mechanisms and effects. Human and other immunodeficiency viruses, retroviruses including human and murine leukemia viruses, Epstein-Barr virus, and cytomegalovirus are among the pathogens examined in depth.

Molecular biologists, virologists, and researchers into oncology, autoimmunity, and the immunodeficiency syndromes will find this book, the third in a popular series arising from the ICN-UCI Conferences on Virology, a valuable addition to the literature.


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