



Centers for Disease Control and Prevention
Epidemiology Program Office
Case Studies in Applied Epidemiology
No. 871-703

Screening for Antibody to the Human Immunodeficiency Virus

Instructor's Guide

Learning Objectives

After completing this case study, the participant should be able to:

- ☐ Define and perform calculations of sensitivity, specificity, predictive-value positive, and predictive-value negative;
- ☐ Describe the relationship between prevalence and predictive value;
- ☐ Discuss the trade-offs between sensitivity and specificity;
- ☐ List the principles of a good screening program.

This case study was developed in 1987 by Lyle Peterson, Guthrie Birkhead, and Richard Dicker.



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service



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American Red Cross

The logo of the American Red Cross, featuring a red circle with a white cross inside, is partially visible on the right side of the slide.

Instructor Guide Hiv Case Study 871 703:

The Present and Future of Immunology Education Andrea Bottaro, Deborah M. Brown, John Gregory Frelinger, 2022-01-24

The explosion of basic and applied immunology in the first decades of the 21st century has brought forth new opportunities and challenges for immunology education at all academic levels from professional to undergraduate medical graduate and post graduate instruction Moreover developing methods and techniques for educating general audiences on the importance and benefits of immunology will be critical for increasing public awareness and support One major immediate challenge consists in accommodating within the confines of traditional immunology curricula a body of knowledge that continues to grow exponentially in both size and complexity Furthermore the practical toolbox of immunological research has vastly expanded and even in the present environment of highly interdisciplinary and collaborative science future immunologists will likely need to be at least conversant in for instance computational structural and system biology nanotechnology and tissue engineering At the same time our perspective of the immune system has progressively developed from primarily a host defense mechanism to a fundamental homeostatic system with organism wide physiological and clinical significance and with potentially transformative biotechnological and therapeutic applications As a consequence in addition to stand alone courses immunology is increasingly integrated into other courses or distributed longitudinally throughout a multi year curriculum This necessitates inter disciplinary approaches to reach an expanding range of disciplines as diverse as neurobiology cancer biology oncology infectious diseases pharmacology orthopedics and bioengineering Creative approaches and pedagogical flexibility will be needed to avoid the pitfall of one size fits all instruction and to tailor level and discipline appropriate content to different types of students using multiple teaching formats Finally like most other disciplines immunology education is also under strong pressure to introduce new didactic strategies that are relevant and meaningful to a generation of students who are digital natives comfortable with and expect on demand and multi modal learning diversified sources and active engagement Thankfully the dynamic and interactive behavior of immune system cells now visualized with striking immediacy by in vivo imaging has the ability to capture and hold the interest of even the most jaded learner The need for an increasingly immunology knowledgeable workforce not just academic and industry scientists but also clinical and research lab technicians biomedical engineers and physicians in a growing array of specialties will also expand job opportunities for immunologists as educators and for content creators dedicated to generating new didactic tools in this field

Acknowledgement We acknowledge the initiation and support of this Research Topic by the International Union of Immunological Societies IUIS *Resources in Education* ,1993 **Resources in Education** ,1997 *Australian Family Physician* ,2004 Current Index to Journals in Education ,1999-04 *International Journal of Health Services* ,1998

American Red Cross Basic HIV/AIDS Program American Red Cross,1995 NPIN 20770 This instructor s guide is intended to familiarize Red Cross HIV AIDS instructors with the Basic HIV AIDS Program entitled Fundamentals The guide explains

how the program relates to other American Red Cross HIV AIDS programs and can be completed by self study or through group orientation The guide reviews the philosophy of the basic program describes objectives design and content of the program discusses the American Red Cross approach to HIV AIDS education describes facilitation skills reviews tools and activities to facilitate community sessions and summarizes administrative guidelines for the documentation of the course

STDs and HIV: Instructor's guide William Lee Yarber,1993

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