

THE THREAT OF BIOTERRORISM AND THE PUBLIC HEALTH RESPONSE: SUMMARY OF THE JOHNS HOPKINS NATIONAL SYMPOSIUM ON MEDICAL AND PUBLIC HEALTH RESPONSE TO BIOTERRORISM

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As the world has grown smaller and more sophisticated, the tenets of biosafety and public health have become increasingly important. In this new age, terrorists have begun to use biologicals as a weapon, i.e., biological terrorism or the use of infectious microorganisms to dominate or coerce by intimidation, or to cause fear.

The increasing importance of bioterrorism was recently noted by Darcy Bender of the Council on Foreign Relations, Washington, DC, who described that 47 anthrax hoaxes and threats have occurred in the United States between 1992 and mid-February 1999. The majority of these incidents were not noted by either the electronic or print media.

The Centers for Disease Control and Prevention (CDC) has responded to these incidents by publishing response guidelines to these threats (CDC, 1999) in a report in the *Morbidity and Mortality Weekly Report (MMWR)* entitled *Bioterrorism Alleging Use of Anthrax and Interim Guidelines for Management - United States, 1998*. This article supplemented an earlier paper by Kaufmann and co-workers (Kaufmann, et al., 1997) who provided economic justification for developing preparedness programs to bioterrorist incidents and discussed the impact of three biological warfare agents.

This rise in interest in bioterrorism was reflected by the one thousand people who registered to attend the Johns Hopkins National Symposium on Medical and Public Health Response to Bioterrorism in February, 1999. Attendees came from many walks of life; biological safety professionals, emergency response experts, health care providers, hospital administrators, government officials, hospital epidemiologists, intelligence experts, law enforcement officials, microbiologists, military experts, nurses, physicians, public health officials, public policy analysts, and of course the media. The Johns Hopkins University Center for Civilian Biodefense Studies sponsored

this symposium in association with the U.S. Department of Health and Human Services, the Infectious Diseases Society of America, and the American Society for Microbiology. Co-sponsors were the American College of Preventative Medicine, the Association of Public Health Laboratories, the Association of Schools of Public Health, the Association of State and Territorial Health Officials, the Commissioned Officers Association of the U.S. Public Health Service, the Council of State and Territorial Epidemiologists, the National Association of County and City Health Officials, the National Association of Local Boards of Health, the Partnership for Prevention, the Public Health Foundation, and the Society of Healthcare Epidemiologists of America. Proceedings of the symposium are netcast at the Johns Hopkins Civilian Biodefense website:

<http://www.hopkins-biodefense.org>.

Reality of the Threat

D. A. Henderson, Director of the Johns Hopkins Center for Civilian Biodefense Studies, began the symposium by introducing the keynote speaker, Ms. Donna Shalala, Secretary of Health and Human Services. Ms. Shalala noted that public health and medical personnel are the lead groups in responding to bioterrorism incidents. Additionally, she discussed the Administration's commitment to providing financial and personnel resources to assist in developing response plans.

David Siegrist, Potomac Institute for Policy Studies, pointed out that the presence of vulnerable targets and the willingness of terrorists to use biological weapons has obviously heightened concerns about bioterrorism. He further described biological weapon caches that had been left by the allied forces at the conclusion of operation Desert Storm due to fears that destruction of these weapons could cause collateral damage (civilian casualties).

National Symposium On Medical And Public Health Response To Bioterrorism

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National Symposium on Medical and Public Health Joseph E. McDade, 2000 Papers include bioterrorism how prepared are we the emerging threat of bioterrorism Congressional efforts to address bioterrorism finding the right balance against bioterrorism historical trends related to bioterrorism the threat of biological attack nuclear blindness an overview of the biological weapons programs of the Former Soviet Union Aum Shinrikyo once the prospect of domestic bioterrorism potential biological weapons threats epidemiology of bioterrorism vaccines in civilian defense against bioterrorism vaccines pharmaceutical products bioterrorism challenges for the U S Food Drug Administration *Bioterrorism*, 2000-07 Witnesses Margaret Hamburg Assist Sec for Planning and Eval HHS Jeffrey Koplan Dir CDC William Clark Deputy Dir Office of Emerg Prepared HHS Donald Henderson dir Center for Civilian Biodefense Stud Johns Hopkins Univ Richard Alcorta for the Amer College of Emerg Physicians John Bartlett pres Infectious Dis Soc of Amer Stephanie Bailey for the Nat Assoc of County and City Health Officials Jerome Hauer dir Mayor s Off of Emerg Mgmt New York NY Michael Osterholm for the Council of State and Territorial Epidem Amer Soc of Microbiol Michael Lord exec dir Comm Off Assoc and Assoc of State and Territorial Health Officials Bioterrorism, Our Frontline Response, Evaluating U.S. Public Health and Medical Readiness United States. Congress. Senate. Committee on Health, Education, Labor, and Pensions. Subcommittee on Public Health, 1999

Emerging Infectious Diseases, 2013 *Bioterrorism in Medical and Healthcare Administration* Laure Paquette, 2004-06-29 Bioterrorism in Medical and Healthcare Administration provides an efficient method to identify manage and control transformations in the provision of health services during elevated levels of bioterrorist threat offering step by step procedures and templates to prepare and implement a coordinated response to high alert situations Outlines procedures to analyze events of significance properly train personnel maintain working relationships among various groups and effectively cope with the threat or use of bioweaponry Essential to public health preparedness this book explains how to conduct strategic and tactical analyses to determine and control health service operation It provides tools for change that can be utilized by anyone inside or outside the health care system at any level and in a unit of any size The reference contains 50 worksheets that allow for clear layout and understanding of the schemes and tactics outlined in the text It also includes case studies that showcase strategies used by individuals infranational groups supranational groups governments and groups of governments to counter bioterrorist threats *Health Services Reports*, 2001 Science and Technology of Terrorism and Counterterrorism, Second Edition Mark A. Prelas, Dabir S. Viswanath, Sudarshan K. Loyalka, 2010-08-10 Traditionally resources on terrorism and counterterrorism tend to focus on the social behavioral and legal aspects of the subject with minimal emphasis on the scientific and technological aspects Taking into account these practical considerations the second edition of Science and Technology of Terrorism and Counterterrorism discusses the nature of terrorism and the materials used by terrorists It describes how intelligence professionals and law enforcement personnel can detect and destroy these

materials and how they can deal with terrorist groups This volume begins by introducing the shift in analysis of terrorist attacks after September 11 2001 and summarizes selected case studies It discusses the origin and nature of terrorism and the factors involved in diplomacy Covering a broad range of topics the book examines Aerosol dispersion of toxic materials Bioterrorism and the manufacture detection and delivery of biological agents Agricultural terrorism Nuclear terrorism and nuclear weapons systems threats and safeguards Chemical terrorism including manufacture detection delivery and decontamination Cyber terrorism Personal protective equipment The role of government at federal state and local levels The role of international agencies and their resources capabilities and responsibilities The National Infrastructure Protection Plan As terrorist activities increase globally it is critical that those charged with protecting the public understand the myriad of ways in which terrorists operate While we cannot predict where when and how terrorists will strike our vigilance in staying abreast of the terrorist threat is the only way to have a fighting chance against those who seek to destroy our world

Public Health Reports ,2002 *Considerations for Viral Disease Eradication* Institute of Medicine,Board on Global Health,Forum on Emerging Infections,2002-08-18 Since smallpox eradication the science of eradication has changed and with it our definitions of what diseases are possible to eradicate However eradication must not beget complacency As has been learned from past control or eradication attempts with a variety of viral diseases from yellow fever to influenza accidental or intentional reintroduction is a real threat one that could strike anywhere and for which we need to be fully prepared The criteria for assessing eradicability of polio measles and other viral infections have been debated extensively With the elimination and eradication of several viral diseases on the horizon issues surrounding the cessation of immunization activities become exceedingly important In an effort to better understand the dynamics of disease eradication and post immunization policies the Institute of Medicine Forum on Emerging Infections hosted a two day workshop February 1 2 2001 on The Consequences of Viral Disease Eradication This book explores the principles underlying the biological challenges medical interventions the continuing research agenda and operational considerations for post immunization strategies for vaccine preventable viral diseases and highlights important efforts that may facilitate wise decision making

Science and Technology of Terrorism and Counterterrorism Tushar K. Ghosh,Mark A. Prelas,Dabir S. Viswanath,Sudarshan K. Loyalka,2002-08-29 Citing viable homeland defense strategies this book examines the potential agents delivery methods and toxic and nontoxic effects of possible nuclear biological and chemical terrorist attacks Providing countermeasures for governmental and emergency first response teams the book covers the impact of WMDs on public health agriculture and eco *The Gathering Biological Warfare Storm* Jim A. Davis,Barry R. Schneider,2004-05-30 A new threat is stalking nations as terrorist organizations and rogue states alike appear intent on acquiring and using the poor man's nuclear weapon biological agents such as anthrax smallpox and plague Attacks against Americans during the past dozen years may be an indication of more worrisome events to come U S military forces in Japan were attacked in April of 1990

with botulinum toxin by the Aum Shinrikyo cult Hundreds in Oregon were sickened with Salmonella after an attack in 1984 And small amounts of anthrax resulted in widespread panic and frequent evacuations across the United States in the fall of 2001 Ten experts discuss in detail the threats posed by bio weapons and assess the current state of U S biological defenses Chapters highlight the future prospects for biological warfare bio weapons in the Middle East potential agroterrorism the emerging bio cruise missile threat prevalent myths and likely scenarios as well as the public health response The promise of future world peace after World War II was quickly shattered by the Cold War Indeed the nuclear age was born at a time when the world seemed to be emerging from a dark past into a hopeful future Are we to repeat history With the end of the Cold War does the future hold even greater threats Or is an old threat merely resurfacing with a new level of lethality This book should be required reading for anyone interested in national security as well as concerned citizens who wish to know what form this new enemy may take and what can be done to stop it

106-1 Hearing: Terrorism Preparedness:

Medical First Response, September 22, 1999 ,2000 *Terrorism and Public Health* Barry S. Levy M.D.,Victor W. Sidel M.D.,2002-11-14 In a wide ranging timely discussion of urgent issues this volume examines the health consequences of the recent terrorist attacks in the United States and systematically reviews information on explosives incendiaries and small arms as well as biologic chemical nuclear radiologic and other radioactive weapons that may be used by terrorists In a constructive approach the authors discuss what needs to be done to improve the public health and medical care systems in preparation for possible future terrorist attacks and threats and for addressing widespread public health problems more effectively They also explore the origins of terrorism and discuss the civil rights and human rights issues related to government responses to terrorism Well written well organized and up to date the book should be essential reading for many health professionals students and others concerned with terrorism and its health consequences The Second National Symposium on Medical and Public Health Response to Bioterrorism Robert Rinsky,2001 **Bioterrorism: The History of a Crisis in American Society** David McBride,2022-07-30 Although at the start of the 21st century bioterrorism was newly feared by the public at large it is one threat that institutions have attempted to anticipate for years Originally published in 2003 and now with a new introduction this unique 2 volume collection provides a multi disciplinary resource on the challenges bioterrorism poses for American society and institutions from both legal and political institutions on one hand to public health and medical institutions on the other Volume one documents and analyses the challenge bioterrorism poses to these political economic and legal institutions putting bioterrorism into its historical context as a problem discussed and anticipated by government for decades Volume two documents the challenges bioterrorism poses to public health and public policy as a weapon of disease and fear The materials in these volumes provide case histories and discourse by specialists relating to the ways that the bioterrorism threat has been perceived and approached by US health and law institutions

Bioterrorism H. T. Banks,C. Castillo-Chavez,2003-01-01 Collects the detailed contributions of selected groups of experts

from the fields of biostatistics control theory epidemiology and mathematical biology who have engaged in the development of frameworks models and mathematical methods needed to address some of the pressing challenges posed by acts of terror

Terrorism Preparedness United States. Congress. House. Committee on Government Reform. Subcommittee on National Security, Veterans Affairs, and International Relations,2000 *Making Threats* Betsy Hartmann,Banu Subramaniam,Charles Zerner,2005-11-01 Today we live in times of proliferating fears The daily updates on the ongoing war on terror amplify fear and anxiety as if they were necessary and important aspects of our reality Concerns about the environment increasingly take center stage as stories and images abound about deadly viruses alien species invasions scarcity of oil water food safety of GMOs biological weapons and fears of overpopulation Making Threats Biofears and Environmental Anxieties addresses how such environmental and biological fears are used to manufacture threats to individual national and global security Contributors from environmental studies political science international security biology sociology and anthropology discuss what they share in common the view that fears should be critically examined to avoid unnecessary alarm and scapegoating of people and nations as the enemy Other In these highly original and thought provoking essays Making Threats focuses on five themes security scarcity purity circulation and terror No other book has systematically examined the proliferation of fear in the context of current world events and from such a multidisciplinary perspective It consolidates in one place cutting edge research and reflection on how the contemporary landscape of fear shapes and is shaped by environmental and biological discourses By uncovering the linguistic tools that make fear resonate in the public consciousness by identifying the interests that create or are sustained by fears in short by giving fears histories Making Threats Biofears and Environmental Anxieties engages with some of the most potent and disturbing political and cultural aspects of the contemporary scene Handbook of Human Systems Integration Harold R. Boohar,2003-07-07 A groundbreaking look at how technology with a human touch is revolutionizing government and industry Human Systems Integration HSI is very attractive as a new integrating discipline designed to help move business and engineering cultures toward a more people technology orientation Over the past decade the United States and foreign governments have developed a wide range of tools techniques and technologies aimed at integrating human factors into engineering systems in order to achieve important cost and performance benefits that otherwise would not have been accomplished In order for this new discipline to be effective however a cultural change is needed that must start with organizational leadership Handbook of Human Systems Integration outlines the principles and methods that can be used to help integrate people technology and organizations with a common objective toward designing developing and operating systems effectively and efficiently Handbook of Human Systems Integration is broad in scope covering both public and commercial processes as they interface with systems engineering processes Emphasizing the importance of management and organization concepts as well as the technical uniqueness of HSI Handbook of Human Systems Integration features More than ninety contributors technical

advisors and reviewers from government industry and academia Comprehensive coverage of the most recent HSI developments particularly in presenting the cutting edge tools techniques and methodologies utilized by each of the HSI domains Chapters representing the governments and industries of the United Kingdom and Canada Contributions from three services of the Department of Defense along with the Federal Aviation Administration and the National Academy of Sciences Many chapters covering both military and nonmilitary applications Concepts widely used by government contractors both in the United States and abroad This book will be of special interest to HSI practitioners systems engineers and managers as well as government and industry decision makers who must weigh the recommendations of all multidisciplines contributing to systems performance safety and costs in order to make sound systems acquisition decisions

Emerging Infectious Diseases and Society P. Washer, 2010-05-07 In the 1970s it seemed infectious diseases had been conquered but today global epidemics seem to pose a new more sinister threat This fascinating study explores these new infectious diseases such as Swine Flu SARS and AIDS and the re emergence of old threats and discusses their role in society

Reviewing **National Symposium On Medical And Public Health Response To Bioterrorism**: Unlocking the Spellbinding Force of Linguistics

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