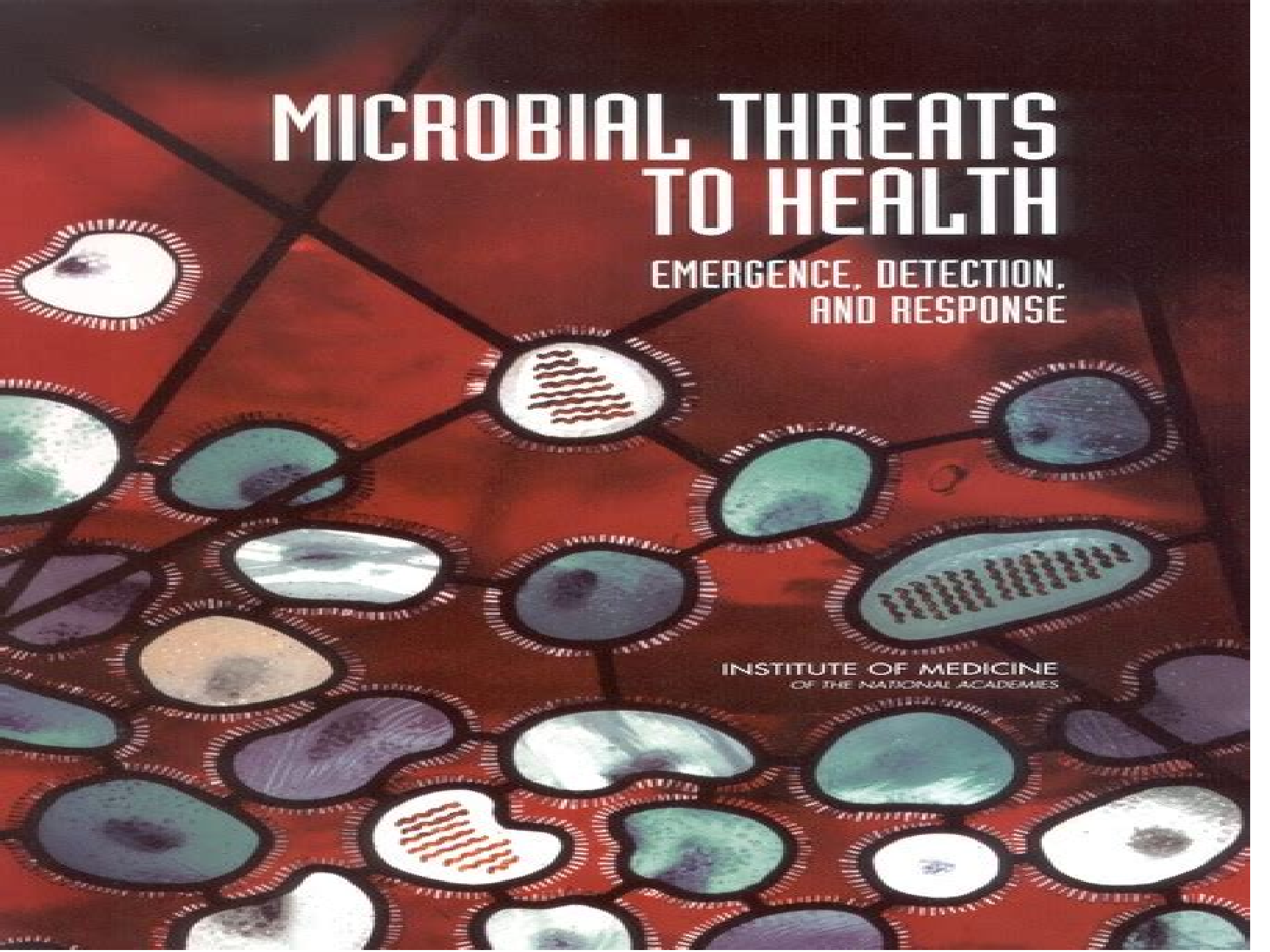


MICROBIAL THREATS TO HEALTH

EMERGENCE, DETECTION,
AND RESPONSE

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Microbial Threats To Health Emergence Detection And Response

**National Research Council, Division on
Earth and Life Studies, Board on
Atmospheric Sciences and
Climate, Committee on Climate,
Ecosystems, Infectious Disease, and
Human Health**

Microbial Threats To Health Emergence Detection And Response:

Microbial Threats to Health ,2003-01-01 *Microbial Threats to Health* Institute of Medicine,Board on Global Health,Committee on Emerging Microbial Threats to Health in the 21st Century,2003-08-25 Infectious diseases are a global hazard that puts every nation and every person at risk The recent SARS outbreak is a prime example Knowing neither geographic nor political borders often arriving silently and lethally microbial pathogens constitute a grave threat to the health of humans Indeed a majority of countries recently identified the spread of infectious disease as the greatest global problem they confront Throughout history humans have struggled to control both the causes and consequences of infectious diseases and we will continue to do so into the foreseeable future Following up on a high profile 1992 report from the Institute of Medicine *Microbial Threats to Health* examines the current state of knowledge and policy pertaining to emerging and re emerging infectious diseases from around the globe It examines the spectrum of microbial threats factors in disease emergence and the ultimate capacity of the United States to meet the challenges posed by microbial threats to human health From the impact of war or technology on disease emergence to the development of enhanced disease surveillance and vaccine strategies *Microbial Threats to Health* contains valuable information for researchers students health care providers policymakers public health officials and the interested public **Learning from SARS** Institute of Medicine,Board on Global Health,Forum on Microbial Threats,2004-04-26 The emergence of severe acute respiratory syndrome SARS in late 2002 and 2003 challenged the global public health community to confront a novel epidemic that spread rapidly from its origins in southern China until it had reached more than 25 other countries within a matter of months In addition to the number of patients infected with the SARS virus the disease had profound economic and political repercussions in many of the affected regions Recent reports of isolated new SARS cases and a fear that the disease could reemerge and spread have put public health officials on high alert for any indications of possible new outbreaks This report examines the response to SARS by public health systems in individual countries the biology of the SARS coronavirus and related coronaviruses in animals the economic and political fallout of the SARS epidemic quarantine law and other public health measures that apply to combating infectious diseases and the role of international organizations and scientific cooperation in halting the spread of SARS The report provides an illuminating survey of findings from the epidemic along with an assessment of what might be needed in order to contain any future outbreaks of SARS or other emerging infections *Fungal Diseases* Institute of Medicine,Board on Global Health,Forum on Microbial Threats,2011-10-08 Fungal diseases have contributed to death and disability in humans triggered global wildlife extinctions and population declines devastated agricultural crops and altered forest ecosystem dynamics Despite the extensive influence of fungi on health and economic well being the threats posed by emerging fungal pathogens to life on Earth are often underappreciated and poorly understood On December 14 and 15 2010 the IOM s Forum on Microbial Threats hosted a public workshop to explore the scientific and policy dimensions associated

with the causes and consequences of emerging fungal diseases **Emerging Viral Diseases** Institute of Medicine, Board on Global Health, Forum on Microbial Threats, 2015-03-19 In the past half century deadly disease outbreaks caused by novel viruses of animal origin Nipah virus in Malaysia Hendra virus in Australia Hantavirus in the United States Ebola virus in Africa along with HIV human immunodeficiency virus several influenza subtypes and the SARS sudden acute respiratory syndrome and MERS Middle East respiratory syndrome coronaviruses have underscored the urgency of understanding factors influencing viral disease emergence and spread Emerging Viral Diseases is the summary of a public workshop hosted in March 2014 to examine factors driving the appearance establishment and spread of emerging re emerging and novel viral diseases the global health and economic impacts of recently emerging and novel viral diseases in humans and the scientific and policy approaches to improving domestic and international capacity to detect and respond to global outbreaks of infectious disease This report is a record of the presentations and discussion of the event Beasts of the Earth E. Fuller Torrey, Robert H. Yolken, 2005-02-03 Humans have lived in close proximity to other animals for thousands of years Recent scientific studies have even shown that the presence of animals has a positive effect on our physical and mental health People with pets typically have lower blood pressure show fewer symptoms of depression and tend to get more exercise But there is a darker side to the relationship between animals and humans Animals are carriers of harmful infectious agents and the source of a myriad of human diseases In recent years the emergence of high profile illnesses such as AIDS SARS West Nile virus and bird flu has drawn much public attention but as E Fuller Torrey and Robert H Yolken reveal the transfer of deadly microbes from animals to humans is neither a new nor an easily avoided problem Beginning with the domestication of farm animals nearly 10 000 years ago Beasts of the Earth traces the ways that human animal contact has evolved over time Today shared living quarters overlapping ecosystems and experimental surgical practices where organs or tissues are transplanted from non humans into humans continue to open new avenues for the transmission of infectious agents Other changes in human behavior like increased air travel automated food processing and threats of bioterrorism are increasing the contagion factor by transporting microbes further distances and to larger populations in virtually no time at all While the authors urge that a better understanding of past diseases may help us lessen the severity of some illnesses they also warn that given our increasingly crowded planet it is not a question of if but when and how often animal transmitted diseases will pose serious challenges to human health in the future Under the Weather National Research Council, Division on Earth and Life Studies, Board on Atmospheric Sciences and Climate, Committee on Climate, Ecosystems, Infectious Disease, and Human Health, 2001-06-29 Since the dawn of medical science people have recognized connections between a change in the weather and the appearance of epidemic disease With today's technology some hope that it will be possible to build models for predicting the emergence and spread of many infectious diseases based on climate and weather forecasts However separating the effects of climate from other effects presents a tremendous scientific challenge Can we use climate and

weather forecasts to predict infectious disease outbreaks Can the field of public health advance from surveillance and response to prediction and prevention And perhaps the most important question of all Can we predict how global warming will affect the emergence and transmission of infectious disease agents around the world Under the Weather evaluates our current understanding of the linkages among climate ecosystems and infectious disease it then goes a step further and outlines the research needed to improve our understanding of these linkages The book also examines the potential for using climate forecasts and ecological observations to help predict infectious disease outbreaks identifies the necessary components for an epidemic early warning system and reviews lessons learned from the use of climate forecasts in other realms of human activity

Disease Control Priorities, Third Edition (Volume 9) Dean T. Jamison, Hellen Gelband, Susan Horton, Prabhat Jha, Charles N. Mock, Rachel Nugent, 2017-12-06 As the culminating volume in the DCP3 series volume 9 will provide an overview of DCP3 findings and methods a summary of messages and substantive lessons to be taken from DCP3 and a further discussion of cross cutting and synthesizing topics across the first eight volumes The introductory chapters 1 3 in this volume take as their starting point the elements of the Essential Packages presented in the overview chapters of each volume First the chapter on intersectoral policy priorities for health includes fiscal and intersectoral policies and assembles a subset of the population policies and applies strict criteria for a low income setting in order to propose a highest priority essential package Second the chapter on packages of care and delivery platforms for universal health coverage UHC includes health sector interventions primarily clinical and public health services and uses the same approach to propose a highest priority package of interventions and policies that meet similar criteria provides cost estimates and describes a pathway to UHC

Global Health and the Future Role of the United States National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Global Health, Committee on Global Health and the Future of the United States, 2017-09-05 While much progress has been made on achieving the Millenium Development Goals over the last decade the number and complexity of global health challenges has persisted Growing forces for globalization have increased the interconnectedness of the world and our interdependency on other countries economies and cultures Monumental growth in international travel and trade have brought improved access to goods and services for many but also carry ongoing and ever present threats of zoonotic spillover and infectious disease outbreaks that threaten all Global Health and the Future Role of the United States identifies global health priorities in light of current and emerging world threats This report assesses the current global health landscape and how challenges actions and players have evolved over the last decade across a wide range of issues and provides recommendations on how to increase responsiveness coordination and efficiency both within the U S government and across the global health field

Infectious Disease Epidemiology Ibrahim Abubakar, Helen R. Stagg, Ted Cohen, Laura C. Rodrigues, 2016-04-07 Infectious Disease Epidemiology is a concise reference guide which provides trainees and practicing epidemiologists with the information that they need to understand the basic concepts necessary for working in

this specialist area Divided into two sections part one comprehensively covers the basic principles and methods relevant to the study of infectious disease epidemiology It is organised in order of increasing complexity ranging from a general introduction to subjects such as mathematical modelling and sero epidemiology Part two examines key major infectious diseases that are of global significance Grouped by their route of transmission for ease of reference they include diseases that present a particular burden or a high potential for causing mortality This practical guide will be essential reading for postgraduate students in infectious disease epidemiology health protection trainees and practicing epidemiologists

Microbial Threats to Health , One Health Ronald M. Atlas, Stanley Maloy, 2020-07-24 Emerging infectious diseases are often due to environmental disruption which exposes microbes to a different niche that selects for new virulence traits and facilitates transmission between animals and humans Thus health of humans also depends upon health of animals and the environment a concept called One Health This book presents core concepts compelling evidence successful applications and remaining challenges of One Health approaches to thwarting the threat of emerging infectious disease Written by scientists working in the field this book will provide a series of stories about how disruption of the environment and transmission from animal hosts is responsible for emerging human and animal diseases Explains the concept of One Health and the history of the One Health paradigm shift Traces the emergence of devastating new diseases in both animals and humans Presents case histories of notable new zoonoses including West Nile virus hantavirus Lyme disease SARS and salmonella Links several epidemic zoonoses with the environmental factors that promote them Offers insight into the mechanisms of microbial evolution toward pathogenicity Discusses the many causes behind the emergence of antibiotic resistance Presents new technologies and approaches for public health disease surveillance Offers political and bureaucratic strategies for promoting the global acceptance of One Health *Improving Food Safety Through a One Health Approach* Institute of Medicine, Board on Global Health, Forum on Microbial Threats, 2012-09-10 Globalization of the food supply has created conditions favorable for the emergence reemergence and spread of food borne pathogens compounding the challenge of anticipating detecting and effectively responding to food borne threats to health In the United States food borne agents affect 1 out of 6 individuals and cause approximately 48 million illnesses 128 000 hospitalizations and 3 000 deaths each year This figure likely represents just the tip of the iceberg because it fails to account for the broad array of food borne illnesses or for their wide ranging repercussions for consumers government and the food industry both domestically and internationally A One Health approach to food safety may hold the promise of harnessing and integrating the expertise and resources from across the spectrum of multiple health domains including the human and veterinary medical and plant pathology communities with those of the wildlife and aquatic health and ecology communities The IOM's Forum on Microbial Threats hosted a public workshop on December 13 and 14 2011 that examined issues critical to the protection of the nation's food supply The workshop explored existing knowledge and unanswered questions on the nature and extent of food borne

threats to health Participants discussed the globalization of the U S food supply and the burden of illness associated with foodborne threats to health considered the spectrum of food borne threats as well as illustrative case studies reviewed existing research policies and practices to prevent and mitigate foodborne threats and identified opportunities to reduce future threats to the nation s food supply through the use of a One Health approach to food safety Improving Food Safety Through a One Health Approach Workshop Summary covers the events of the workshop and explains the recommendations for future related workshops

Sustaining Global Surveillance and Response to Emerging Zoonotic Diseases

National Research Council, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Institute of Medicine, Board on Global Health, Committee on Achieving Sustainable Global Capacity for Surveillance and Response to Emerging Diseases of Zoonotic Origin, 2010-01-24 H1N1 swine flu SARS mad cow disease and HIV AIDS are a few examples of zoonotic diseases diseases transmitted between humans and animals Zoonotic diseases are a growing concern given multiple factors their often novel and unpredictable nature their ability to emerge anywhere and spread rapidly around the globe and their major economic toll on several disparate industries Infectious disease surveillance systems are used to detect this threat to human and animal health By systematically collecting data on the occurrence of infectious diseases in humans and animals investigators can track the spread of disease and provide an early warning to human and animal health officials nationally and internationally for follow up and response Unfortunately and for many reasons current disease surveillance has been ineffective or untimely in alerting officials to emerging zoonotic diseases Sustaining Global Surveillance and Response to Emerging Zoonotic Diseases assesses some of the disease surveillance systems around the world and recommends ways to improve early detection and response The book presents solutions for improved coordination between human and animal health sectors and among governments and international organizations Parties seeking to improve the detection and response to zoonotic diseases including U S government and international health policy makers researchers epidemiologists human health clinicians and veterinarians can use this book to help curtail the threat zoonotic diseases pose to economies societies and health

Preventing Emerging Infectious Diseases, 1998

Ending the War Metaphor

Institute of Medicine, Board on Global Health, Forum on Microbial Threats, 2006-07-09 Infectious diseases have existed longer than us as long as us or are relatively newer than us It may be the case that a disease has existed for many many years but has only recently begun affecting humans At the turn of the century the number of deaths caused by infections in the United States had been falling steadily but since the 80s has seen an increase In the past 30 years alone 37 new pathogens have been identified as human disease threats and 12% of known human pathogens have been classified as either emerging or reemerging Whatever the story there is currently a war on infectious diseases This war is simply the systematic search for the microbial cause of each disease followed by the development of antimicrobial therapies The war on infectious diseases however must be revisited in order to develop a more realistic and detailed picture of the dynamic interactions among and

between host organisms and their diverse populations of microbes Only a fraction of these microbes are pathogens Thus in order to explore the crafting of a new metaphor for host microbe relationships and to consider how such a new perspective might inform and prioritize biomedical research the Forum on Microbial Threats of the Institute of Medicine IOM convened the workshop Ending the War Metaphor The Changing Agenda for Unraveling the Host Microbe Relationship on March 16 17 2005 Workshop participants examined knowledge and approaches to learning about the bacterial inhabitants of the human gut the best known host microbe system as well as findings from studies of microbial communities associated with other mammals fish plants soil and insects The perspective adopted by this workshop is one that recognizes the breadth and diversity of host microbe relationships beyond those relative few that result in overt disease Included in this summary are the reports and papers of individuals participating in the Forum as well as the views of the editors Biological Threats and Terrorism Institute of Medicine, Board on Global Health, Forum on Emerging Infections, 2002-03-07 In the wake of September 11th and recent anthrax events our nation's bioterrorism response capability has become an imminent priority for policymakers researchers public health officials academia and the private sector In a three day workshop convened by the Institute of Medicine's Forum on Emerging Infections experts from each of these communities came together to identify clarify and prioritize the next steps that need to be taken in order to prepare and strengthen bioterrorism response capabilities From the discussions it became clear that of utmost urgency is the need to cast the issue of a response in an appropriate framework in order to attract the attention of Congress and the public in order to garner sufficient and sustainable support for such initiatives No matter how the issue is cast numerous workshop participants agreed that there are many gaps in the public health infrastructure and countermeasure capabilities that must be prioritized and addressed in order to assure a rapid and effective response to another bioterrorist attack **Infectious Disease Movement in a Borderless World** Institute of Medicine, Board on Global Health, Forum on Microbial Threats, 2010-04-10 Modern transportation allows people animals and plants and the pathogens they carry to travel more easily than ever before The ease and speed of travel tourism and international trade connect once remote areas with one another eliminating many of the geographic and cultural barriers that once limited the spread of disease Because of our global interconnectedness through transportation tourism and trade infectious diseases emerge more frequently spread greater distances pass more easily between humans and animals and evolve into new and more virulent strains The IOM's Forum on Microbial Threats hosted the workshop Globalization Movement of Pathogens and Their Hosts and the Revised International Health Regulations December 16 17 2008 in order to explore issues related to infectious disease spread in a borderless world Participants discussed the global emergence establishment and surveillance of infectious diseases the complex relationship between travel trade tourism and the spread of infectious diseases national and international policies for mitigating disease movement locally and globally and obstacles and opportunities for detecting and containing these potentially wide reaching and

devastating diseases This document summarizes the workshop *Confronting Emerging Zoonoses* Akio Yamada, Laura H. Kahn, Bruce Kaplan, Thomas P. Monath, Jack Woodall, Lisa Conti, 2014-11-19 This book provides readers with information on the factors underlying the emergence of infectious diseases originating in animals and spreading to people The One Health concept recognizes the important links between human animal and environmental health and provides an important strategy in epidemic mitigation and prevention The essential premise of the One Health concept is to break down the silos among the different health professions and promote transdisciplinary collaborations These concepts are illustrated with in depth analyses of specific zoonotic agents and with examples of the successes and challenges associated with implementing One Health The book also highlights some of the challenges societies face in confronting several specific zoonotic diseases A chapter is included on comparative medicine to demonstrate the broad scope of the One Health concept Edited by a team including the One Health Initiative pro bono members the book is dedicated to those studying zoonotic diseases and comparative medicine in both human and veterinary medicine to those involved in the prevention and control of zoonotic infections and to those in the general public interested in the visionary field of One Health

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