

Akio Yamada · Laura H. Kahn
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Confronting Emerging Zoonoses

The One Health Paradigm



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Confronting Emerging Zoonoses The One Health Paradigm

**National Research Council, Division on
Earth and Life Studies, Board on
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for Surveillance and Response to
Emerging Diseases of Zoonotic Origin**

Confronting Emerging Zoonoses The One Health Paradigm:

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

The One Health Model as Applied to Zoonotic Diseases Oreta M. Samples, George W. McCommon, Thomas H. Terrill, Lori Stose, 2025-03-03 Comprehensive easy to understand and clinically relevant guide to zoonotic healthcare concerns in North America The One Health Model as Applied to Zoonotic Diseases is an easy to understand yet comprehensive explanation of zoonotic healthcare concerns with coverage of diseases and medical conditions seen in North America With a format that is consistent throughout each chapter this book provides clinically relevant information on individual diseases causative agents symptomatology diagnostics and treatment and preventative strategies This book also offers an overview of the history of One Health and perspective on the future of One Health in North America The One Health Model as Applied to Zoonotic Diseases covers sample topics including Arthropod Borne Diseases tapeworms rabbit fever rickettsia spp leishmaniasis chiggers red bird mite and mange Equine encephalitis St Louis encephalitis West Nile Virus Zika American spotted fever babesia bourbon virus Colorado tick fever and heartland virus Lyme disease Powassan encephalitis Q Fever Rocky Mountain spotted fever swimmer s itch and bacterial zoonotic disease Anthrax cat scratch fever campylobacteriosis leptospirosis psittacosis salmonella staphylococcus tuberculosis rat bite fever hookworms and intestinal flukes Newcastle disease avian and swine influenza foot and mouth disease and creeping eruption The One Health Model as Applied to Zoonotic Diseases is an essential textbook for veterinary technology and animal science students seeking to work as paramedical professionals in the fields of agriculture and veterinary medicine It also serves as an ideal reference guidebook for both human and veterinary practitioners

One Planet, One Health Walton, Merrilyn, Aginam, Obijiofor, Alders, Robyn, Arabena, Kerry, Ashleigh, Conor, Bagnol, Brigitte, Black, Kirsten, Braaten, Yngve, Coogan, Sean, Dawson, Angus, Degeling, Chris, Fenwick, Stanley, Gilbert, Gwendolyn, Guest, David, Hill-Cawthorne, Grant, Hogerwerf,

Lenny,Jeggo, Martyn,Jonas, Tammi,Kock, Richard,Hall, Jess,Laven, Anna,Mackenzie, John,Marais, Ben,McMahon, Peter,Massey, Peter,Memmott, Paul,Mor, Siobhan,Nuryartono, Nunung,Raubenheimer, David,Stellmach, Darryl,Vinning, Grant,Wallace, Robert,Wiethoelter, Anke,2019-04-01 One Planet One Health provides a multidisciplinary reflection on the state of our planet human and animal health as well as the critical effects of climate change on the environment and on people Climate change is already affecting many poor communities and traditional aid programs have achieved relatively small gains Going beyond the narrow disciplinary lens and an exclusive focus on human health a planetary health approach puts the ecosystem at the centre The contributors to One Planet One Health argue that maintaining and restoring ecosystem resilience should be a core priority carried out in partnership with local communities One Planet One Health offers an integrated approach to improving the health of the planet and its inhabitants With chapters on ethics research and governance as well as case studies of government and international aid agency responses to illustrate successes and failures the book aims to help scholars governments and non governmental organisations understand the benefits of focusing on the interdependence of human and animal health food water security and land care *Challenges and successes of one health in the context of planetary health in latin america and the caribbean* Christina Pettan-Brewer,Daniela Patricia Figueroa,Laura H. Kahn,Andreza Martins,Natalia Cediell,Alexander Welker Biondo,2023-01-31 Law, Public Policies and Complex Systems: Networks in Action Romain Boulet,Claire Lajaunie,Pierre Mazzega,2019-05-07 This book investigates how various scientific communities e g legal scientists political scientists sociologists mathematicians and computer scientists study law and public policies which are portrayed here as complex systems Today research on law and public policies is rapidly developing at the international level relying heavily on modeling that employs innovative methods for concrete implementation Among the subject matter discussed law as a network of evolving and interactive norms is now a prominent sphere of study Similarly public policies are now a topic in their own right as policy can no longer be examined as a linear process rather its study should reflect the complexity of the networks of actors norms and resources involved as well as the uncertainty or weak predictability of their direct or indirect impacts The book is divided into three main parts complexity faced by jurists complexity in action and public policies and complexity and networks The main themes examined concern codification governance climate change normative networks health water management use related conflicts legal regime conflicts and the use of indicators Trends in Food Safety and Protection V Ravishankar Rai,Jamuna A Bai,2017-09-18 Trends in Food Safety and Protection explores the recent developments and ongoing research in the field of food safety and protection The book covers improvements in the existing techniques and implementation of novel analytical methods for detecting and characterizing foodborne pathogens **Cancer Metabolism: Current Knowledge and Perspectives** Leonardo Freire-de-Lima,Lucia Mendonça-Previato,Luciana Boffoni Gentile,2019-10-23 One Health Ronald M. Atlas,Stanley Maloy,2014-03-03 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

One Health: The Human-Animal-Environment Interfaces in Emerging Infectious Diseases John S. Mackenzie, Martyn Jeggo, Peter Daszak, Juergen A. Richt, 2013-11-22 One Health is an emerging concept that aims to bring together human animal and environmental health Achieving harmonized approaches for disease detection and prevention is difficult because traditional boundaries of medical and veterinary practice must be crossed In the 19th and early 20th centuries this was not the case then researchers like Louis Pasteur and Robert Koch and physicians like William Osler and Rudolph Virchow crossed the boundaries between animal and human health More recently Calvin Schwabe revised the concept of One Medicine This was critical for the advancement of the field of epidemiology especially as applied to zoonotic diseases The future of One Health is at a crossroads with a need to more clearly define its boundaries and demonstrate its benefits Interestingly the greatest acceptance of One Health is seen in the developing world where it is having significant impacts on control of infectious diseases

Emerging zoonoses: eco-epidemiology, involved mechanisms and public health implications Rubén Bueno-Marí, A. Paulo Gouveia Almeida, Juan Carlos Navarro, 2015-07-06 Zoonoses are currently considered as one of the most important threats for public health worldwide Zoonoses can be defined as any disease or infection that is naturally transmissible from vertebrate or invertebrate animals to humans and vice versa Approximately 75% of recently emerging infectious diseases affecting humans are diseases of animal origin approximately 60% of all human pathogens are zoonotic All types of potential pathogenic agents including viruses parasites bacteria and fungi can cause these zoonotic infections From the wide range of potential vectors of zoonoses insects are probably those of major significance due to their abundance high plasticity and adaptability to different kinds of pathogens high degrees of synanthropism in several groups and difficulties to apply effective programs of population control Although ticks flies cockroaches bugs and fleas are excellent insects capable to transmit viruses parasites and bacteria undoubtedly mosquitoes are the most important disease vectors

Mosquito borne diseases like malaria dengue equine encephalitis West Nile Mayaro or Chikungunya are zoonoses with increasing incidence in last years in tropical and temperate countries Vertebrates can also transmit serious zoonoses highlighting the role of some carnivorous animals in rabies dissemination or the spread of rodent borne diseases in several rural and urban areas Moreover the significance of other food borne zoonoses such as taeniasis trichinellosis or toxoplasmosis may not been underestimated According to WHO FAO and OIE guidelines an emerging zoonotic disease can be defined as a zoonosis that is newly recognized or newly evolved or that has occurred previously but shows an increase of incidence or expansion in geographical host or vector range There are many factors that can provoke or accelerate the emergence of zoonoses such as environmental changes habitat modifications variations of human and animal demography pathogens and vectors anomalous mobilization related with human practices and globalization deterioration of the strategies of vector control or changes in pathogen genetics To reduce public health risks from zoonoses is absolutely necessary to acquire an integrative perspective that includes the study of the complexity of interactions among humans animals and environment in order to be able to fight against these issues of primary interest for human health In any case although zoonoses represent significant public health threats many of them still remain as neglected diseases and consequently are not prioritized by some health international organisms

One Health Kevin Bardosh,2016-02-12 Zoonotic diseases pathogens transmitted from animals to people offer particularly challenging problems for global health institutions and actors given the complex social ecological dynamics at play New forms of risk caused by unprecedented global connectivity and rapid social and environmental change demand new approaches One Health highlights the need for collaboration across sectors and disciplines to tackle zoonotic diseases However there has been little exploration of how social political and economic contexts influence efforts to do One Health This book fills this gap by offering a much needed political economy analysis of zoonosis research and policy Through ethnographic qualitative and quantitative data the book draws together a diverse number of case studies These include chapters exploring global narratives about One Health operationalization and prevailing institutional bottlenecks the evolution of research networks over time and the histories and politics behind conflicting disease control approaches The themes from these chapters are further contextualized and expanded upon through country specific case studies from Kenya Zambia Nigeria Ghana and Sierra Leone exploring the translation of One Health research and policy into the African context This book is a valuable resource for academic researchers students and policy practitioners in the areas of global health agriculture and development

Zoonoses and Wildlife David Gonzalez Barrio,2022-04-06 Throughout history wildlife has been an important source of infectious diseases transmissible to humans Today zoonoses with a wildlife reservoir constitute a major public health problem affecting all continents The importance of such zoonoses is increasingly recognized and the need for more attention in this area is being addressed The total number of zoonoses is unknown some 1 415 known human pathogens have been catalogued and 62% are of zoonotic origin 1 With time

more and more human pathogens are found to be of animal origin Moreover most emerging infectious diseases in humans are zoonoses Wild animals seem to be involved in the epidemiology of most zoonoses and serve as major reservoirs for transmission of zoonotic agents to domestic animals and humans 2 The concept of the One Health approach involving collaboration between veterinary and medical scientists policy makers and public health officials is necessary to foster joint cooperation and control of emerging zoonotic diseases 3 Zoonotic diseases caused by a wide range of arthropods bacteria helminths protozoans and viruses can cause serious and even life threatening clinical conditions in animals with a number of them also affecting the human population due to their zoonotic potential The aim of the current Special Issue is to cover recent and novel research trends in zoonotic diseases in wildlife including the relevant topics related to wildlife zoonosis public health emerging diseases infectious diseases and parasitic diseases

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

The Emergence of Zoonotic Diseases Institute of Medicine, Board on Global Health, Forum on Emerging Infections, 2002-05-09 Zoonotic diseases represent one of the leading causes of illness and death from infectious disease Defined by the World Health Organization zoonoses are those diseases and infections that are naturally transmitted between vertebrate animals and man with or without an arthropod intermediate Worldwide zoonotic diseases have a negative impact on commerce travel and economies In most developing countries zoonotic diseases are among those diseases that contribute significantly to an already overly

burdened public health system In industrialized nations zoonotic diseases are of particular concern for at risk groups such as the elderly children childbearing women and immunocompromised individuals The Emergence of Zoonotic Diseases Understanding the Impact on Animal and Human Health covers a range of topics which include an evaluation of the relative importance of zoonotic diseases against the overall backdrop of emerging infections research findings related to the current state of our understanding of zoonotic diseases surveillance and response strategies to detect prevent and mitigate the impact of zoonotic diseases on human health and information about ongoing programs and actions being taken to identify the most important needs in this vital area

Achieving Sustainable Global Capacity for Surveillance and Response to Emerging Diseases of Zoonotic Origin 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, 2009-01-22 One of the biggest threats today is the uncertainty surrounding the emergence of a novel pathogen or the re emergence of a known infectious disease that might result in disease outbreaks with great losses of human life and immense global economic consequences Over the past six decades most of the emerging infectious disease events in humans have been caused by zoonotic pathogens those infectious agents that are transmitted from animals to humans In June 2008 the Institute of Medicine s and National Research Council s Committee on Achieving Sustainable Global Capacity for Surveillance and Response to Emerging Diseases of Zoonotic Origin convened a workshop This workshop addressed the reasons for the transmission of zoonotic disease and explored the current global capacity for zoonotic disease surveillance

[Taking a Multisectoral One Health Approach : A Tripartite Guide to Addressing Zoonotic Diseases in Countries](#) Food and Agriculture Organization of the United Nations, World Organization for Animal Health, World Health Organization, 2019-03-11 The 2018 FAO OIE WHO Tripartite zoonoses guide Taking A Multisectoral One Health Approach A Tripartite Guide to Addressing Zoonotic Diseases in Countries 2018 TZG is being jointly developed to provide member countries with practical guidance on OH approaches to build national mechanisms for multisectoral coordination communication and collaboration to address zoonotic disease threats at the animal human environment interface The 2018 TZG updates and expands on the guidance in the one previous jointly developed zoonoses specific guidance document the 2008 Tripartite Zoonotic Diseases A Guide to Establishing Collaboration between Animal and Human Health Sectors at the Country Level developed in WHO South East Asia Region and Western Pacific Region The 2018 TZG supports building by countries of the resilience and capacity to address emerging and endemic zoonotic diseases such as avian influenza rabies Ebola and Rift Valley fever as well as food borne diseases and antimicrobial resistance and to minimize their impacts on health livelihoods and economies It additionally supports country efforts to implement WHO International Health Regulations 2005 and OIE international standards to address gaps identified through external and internal health system evaluations and to achieve targets of the Sustainable Development Goals The 2018 TZG provides relevant country

ministries and agencies with lessons learned and good practices identified from country level experiences in taking OH approaches for preparedness prevention detection and response to zoonotic disease threats and provides guidance on multisectoral communication coordination and collaboration It informs on regional and country level OH activities and relevant unisectoral and multisectoral tools available for countries to use

Wildlife and Emerging Zoonotic Diseases: The Biology, Circumstances and Consequences of Cross-Species Transmission James E. Childs, John S. Mackenzie, Jürgen A. Richt, 2007-07-23 This volume offers an overview of the processes of zoonotic viral emergence the intricacies of host virus interactions and the role of biological transitions and modifying factors The themes introduced here are amplified and explored in detail by the contributing authors who explore the mechanisms and unique circumstances by which evolution biology history and current context have contrived to drive the emergence of different zoonotic agents by a series of related events

Emerging Zoonoses I. W. Fong, 2017-02-06 The book begins with a review of zoonotic pandemics of the past the Black Death or bubonic plague of the Middle Ages the Spanish Influenza pandemic derived from avian influenza of the early 20th century to the more modern pandemic of AIDS HIV infection which originated in Africa from primates However the majority of chapters focus on more recent zoonoses which have been recognized since the late 20th century to the present SARS and MERS coronaviruses New avian influenza viruses The tick borne Henan fever virus from China The tick borne Heartland virus from the United States Recently recognized bacterial pathogens such as *Streptococcus suis* from pigs In addition reemergence of established zoonoses that have expanded their niche are reviewed such as the spread of Zika virus and Chikungunya virus to the Western Hemisphere and the emergence and spread of Ebola virus infection in Africa A chapter is also devoted to an overview of the mechanisms and various types of animals involved in the transmission of diseases to humans and the potential means of control and prevention Many endemic and sporadic diseases are still transmitted by animals through either direct or indirect contact and zoonoses are estimated to account for about 75% of all new and emerging infectious diseases It is predicted by public health experts that the next major pandemic of infectious disease will be of animal origin making *Emerging Zoonoses A Worldwide Perspective* a crucial resource to all health care specialists by providing them with much needed information on these zoonotic diseases iv

One Health Ronald M. Atlas, Stanley R. Maloy, 2014 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

One Health and Zoonoses John S. Mackenzie, Martyn Jeggo, 2019-08-19 The One Health concept recognizes that the health of humans animals and their ecosystems are interconnected and that a coordinated collaborative multidisciplinary and cross sectoral approach is necessary to fully understand and respond to potential or

existing risks that originate at the animal human ecosystems interfaces Thus the One Health concept represents a holistic vision for addressing some of the complex challenges that threaten human and animal health food safety and the environments in which diseases flourish There are many examples showing how the health of humans is related to the health of animals and the environment Diseases shared between humans and animals are zoonoses Some zoonoses have been known for many years whereas others have emerged suddenly and unexpectedly Over 70% of all new emerging diseases over the past few decades have been zoonoses that have emerged from wildlife most often from bats rodents or birds Examples of zoonoses are many and varied ranging from rabies to bovine tuberculosis and from Japanese encephalitis to SARS Clearly a One Health approach is essential for understanding their ecology and for outbreak response and the development of control strategies However the One Health concept and approach is much broader than zoonoses it extends to including antimicrobial resistance food safety and environmental health and consequently impacts on global health security economic wellbeing and international trade It is this breadth of One Health that connects the papers in this Special Issue

Confronting Emerging Zoonoses The One Health Paradigm Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has been evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Confronting Emerging Zoonoses The One Health Paradigm**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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