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Characteristics of healthcare personnel with SARS-CoV-2 infection: 10 emerging infections program sites in the United States, April 2020–December 2021

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Abstract

Background: Understanding characteristics of healthcare personnel (HCP) with SARS-CoV-2 infection supports the development and prioritization of interventions to protect this important workforce. We report detailed characteristics of HCP who tested positive for SARS-CoV-2 from April 20, 2020 through December 31, 2021.

Methods: CDC collaborated with Emerging Infections Program sites in 10 states to interview HCP with SARS-CoV-2 infection (case-HCP) about their demographics, underlying medical conditions, healthcare roles, exposures, personal protective equipment (PPE) use, and COVID-19 vaccination status. We grouped case-HCP by healthcare role. To describe residential social vulnerability, we merged geocoded HCP residential addresses with CDC/ATSDR Social Vulnerability Index (SVI) values at the census tract level. We defined highest and lowest SVI quartiles as high and low social vulnerability, respectively.

Results: Our analysis included 7,531 case-HCP. Most case-HCP with roles as certified nursing assistant (CNA) (444, 61.5%), medical assistant (252, 65.3%), or home healthcare worker (HHW) (225, 59.5%) reported their race and ethnicity as either non-Hispanic Black or Hispanic. More than one third of HHWs (166, 45.2%), CNAs (283, 41.7%), and medical assistants (138, 37.9%) reported a residential address in the high social vulnerability category. The proportion of case-HCP who reported using recommended PPE at all times when caring for patients with COVID-19 was lowest among HHWs compared with other roles.

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Cite this article: Chea N, Eure T, Aikis Ramirez R, et al. Characteristics of healthcare personnel with SARS-CoV-2 infection: 10 emerging infections program sites in the United States, April 2020–December 2021. *Infect Control Hosp Epidemiol* 2024; doi: [10.1017/ice.2024.71](https://doi.org/10.1017/ice.2024.71)

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Sars A Case Study In Emerging Infections

**Rajkumar Rajendram, Victor R
Preedy, Vinood Patel**



Sars A Case Study In Emerging Infections:

SARS Angela R. McLean, 2005 Providing an up to date and accessible overview of the tasks that must be addressed by a community wishing to confront emerging infections this text looks at how to guard against the spread of SARS and other highly contagious infections

SARS Angela R. McLean, 2005 The sudden appearance and rapid spread of Severe Acute Respiratory Syndrome SARS in 2002 served to alert the world to the fact that emerging infections are a global problem Living in affluent societies with well developed healthcare systems does not necessarily protect people from the dangers posed by life threatening infections The SARS epidemic tested global preparedness for dealing with a new infectious agent and raised important questions how did we do and what did we learn This book uses the SARS outbreak as a case study to enumerate the generic issues that must be considered when planning the control of emerging infections Emerging infections are more than just a current biological fashion the bitter ongoing experience of AIDS and the looming threat of pandemic influenza teach us that the control of infectious disease is a problem we have not yet solved Scientists from a broad range of disciplines biologists veterinarians physicians and policy makers all need to prepare But prepare for what SARS A Case Study In Emerging Infections provides an up to date and accessible overview of the tasks that must be addressed by a community that wishes to confront emerging infections Each chapter is written by a world expert and offers an authoritative and timely overview of its subject While focusing on SARS the book addresses a whole range of pertinent considerations and issues from the use of new mathematical models to account for the spread of infection across global airline networks to a discussion of the ethics of quarantining individuals in order to protect communities The book will be of interest to students academics and policy makers working in the fields of disease ecology medicine and public health

Challenges in Intelligence Analysis Timothy Walton, 2010-08-30 In Challenges in Intelligence Analysis first published in 2010 Timothy Walton offers concrete reality based ways to improve intelligence analysis

Communication and Engagement with Science and Technology John K. Gilbert, Sue Stockmayer, 2013 Science communication seeks to engage individuals and groups with evidence based information about the nature outcomes and social consequences of science and technology This text provides an overview of this burgeoning field the issues with which it deals important influences that affect it the challenges that it faces It introduces readers to the research based literature about science communication and shows how it relates to actual or potential practice A Further Exploration section provides suggestions for activities that readers might do to explore the issues raised Organized around five themes each chapter addresses a different aspect of science communication Models of science communication theory into practice Challenges in communicating science Major themes in science communication Informal learning Communication of contemporary issues in science and society Relevant for all those interested in and concerned about current issues and developments in science communication this volume is an ideal text for courses and a must have resource for faculty students and professionals in this field

Epidemics in Modern Asia Robert

Peckham,2016-04-28 Epidemics have played a critical role in shaping modern Asia Encompassing two centuries of Asian history Robert Peckham explores the profound impact that infectious disease has had on societies across the region from India to China and the Russian Far East The book tracks the links between biology history and geopolitics highlighting infectious disease s interdependencies with empire modernization revolution nationalism migration and transnational patterns of trade By examining the history of Asia through the lens of epidemics Peckham vividly illustrates how society s material conditions are entangled with social and political processes offering an entirely fresh perspective on Asia s transformation **Emergency Public Health: Preparedness and Response** Girish Bobby Kapur,Jeffrey P.

Smith,2010-10-05 As large scale emergencies continue to pose a threat to U S populations at the local state and national levels the public and private sectors are demanding improved public health preparedness response and cooperation for such events Emergency Public Health provides readers with important information and analysis of key public health crises threatening our local state and national jurisdictions As the first text of its kind in the emerging field of emergency public health it provides a framework for public health professionals policy makers first responders and emergency healthcare providers to plan and implement effective measures to protect the public health of civilian populations during times of emergencies Written by experts with both emergency healthcare and public health backgrounds the case based chapters provide valuable information on the preparedness response and mitigation of emergency public health topics In addition Emergency Public Health contains timely information of key areas such as public health law and the interactions among government jurisdictions Each chapter also includes online resources for the reader to pursue additional web based resources Important features Chapters written by emergency physicians with public health degrees Case based chapters Web resources provided Covers large scale issues such as public health law government jurisdictions NGO s Chapter devoted to specific needs of children Chapter on mental health issues in times of public health emergencies Specific chapters on public health tools such as surveillance and rapid needs assessment Each chapter follows a consistent structure to maintain clarity and continuity throughout the text A Introduction B Historical perspectives C Preparedness D Response E Case study F On line resources Competitive features Covers natural emergencies Covers key topics in terrorism Covers primary topics for disaster medicine Questions for instructors What are the key topics in your course How do you like to prepare your students for public health emergencies What management principles are addressed in your course Do you teach special issues such as children and mental health issues during emergencies *A History of Infectious Diseases and the Microbial World* Lois N. Magner,2009-04-30 A History of Infectious Diseases and the Microbial World offers readers answers to specific questions as well as the challenge of a narrative that will stimulate their curiosity and encourage them to ask questions about the theory practice and assumptions of modern medicine This work provides a broad introductory overview of the history of major infectious diseases including their impact on different populations the recognition of specific causative agents and the

development of methods used to prevent control and treat them By stressing the major themes in the history of disease this book allows readers to relate modern concerns to historical materials It places modern developments concerning infectious diseases within their historical context illuminating the relationships between patterns of disease and social cultural political and economic factors Upon completing this volume readers will be prepared to answer contemporary questions concerning the threat of newly emerging infectious diseases potentially devastating pandemics and the threat of bioterrorism One will gain a precise understanding of the nature of different kinds of pathogens the unique mechanisms behind disease transmission and the means used to control prevent and treat infectious disease Although only a few of these deadly illnesses can be addressed in detail those that are discussed include malaria leprosy bubonic plague tuberculosis syphilis diphtheria cholera yellow fever poliomyelitis HIV AIDS and influenza

The Palgrave Encyclopedia of Global Security Studies, 2023-02-15 This encyclopedia provides an authoritative guide intended for students of all levels of studies offering multidisciplinary insight and analysis of over 500 headwords covering the main concepts of Security and Non traditional Security and their relation to other scholarly fields and aspects of real world issues in the contemporary geopolitical world

Influenza and Public Health Jennifer Gunn, Tamara Giles-Vernick, Susan Craddock, 2010-09-23 Major influenza pandemics pose a constant threat As evidenced by recent H5N1 avian flu and novel H1N1 influenza outbreaks can come in close succession yet differ in their transmission and impact With accelerated levels of commercial and population mobility new forms of flu virus can also spread across the globe with unprecedented speed Responding quickly and adequately to each outbreak becomes imperative on the part of governments and global public health organizations but the difficulties of doing so are legion One tool for pandemic planning is analysis of responses to past pandemics that provide insight into productive ways forward This book investigates past influenza pandemics in light of today's so as to afford critical insights into possible transmission patterns experiences mistakes and interventions It explores several pandemics over the past century from the infamous 1918 Spanish Influenza the avian flu epidemic of 2003 and the novel H1N1 pandemic of 2009 to lesser known outbreaks such as the 1889-90 influenza pandemic and the Hong Kong Flu of 1968 Contributors to the volume examine cases from a wide range of disciplines including history sociology epidemiology virology geography and public health identifying patterns that cut across pandemics in order to guide contemporary responses to infectious outbreaks

Population Dynamics and Infectious Diseases in Asia Adrian Sleight, 2006 Initially stimulated by a scholarly workshop convened in Singapore in late 2004 and written over the subsequent 18 months this volume considers the potentially lethal pattern of infectious disease emergence in Asia It studies linkages to changes in patterns of human activity including but not limited to shifts in the distribution and concentration of human settlements and the patterns of movement within and between them It explores the causes and consequences of infectious agents in the region historically and examines such newly emergent natural biological threats as SARS and avian influenza Drawing on a range of disciplinary perspectives the

book contains analyses rooted in the social physical and biological sciences as well as works which span these fields Among the issues considered are the ways in which changes in our natural and built environment social and economic pressures shifting policies and patterns of collaboration in responding to disease impact upon our approach to and success in containing serious threats Infection control has moved beyond the province of clinical experts epidemiologists and microbiologists into the mathematics of epidemic prevention and control as well as the overall physical and human ecology and historical contexts of emerging infections Not only does such a broad approach enable appreciation of complex forces driving growing epidemic risks in Asia today it also reveals the importance and relevance of population dynamics as well as the global urgency of alleviating unsatisfactory health conditions in Asia The topic and the broad approach has international appeal beyond the region as many of these forces operate throughout the world Sample Chapter s Chapter 1

Transdisciplinary Approaches to Population Dynamics and Infectious Diseases in Asia 756 KB Contents Frameworks for Understanding Population Dynamics and Infectious Diseases in Asia Development and Infectious Diseases in Asia Population Mobility and Infectious Diseases in Asia Comparative Perspectives on SARS in Asia Drawing Lessons from the Past to Respond to Future Challenges Readership Academics and professional organizations in public health medical sociology geography demography international health academics and managers **The Social Ecology of Infectious Diseases**

Kenneth H. Mayer,H.F. Pizer,2011-04-28 Social Ecology of Infectious Diseases explores how human activities enable microbes to disseminate and evolve thereby creating favorable conditions for the diverse manifestations of communicable diseases Today infectious and parasitic diseases cause about one third of deaths and are the second leading cause of morbidity and mortality The speed that changes in human behavior can produce epidemics is well illustrated by AIDS but this is only one of numerous microbial threats whose severity and spread are determined by human behaviors In this book forty experts in the fields of infectious diseases the life sciences and public health explore how demography geography migration travel environmental change natural disaster sexual behavior drug use food production and distribution medical technology training and preparedness as well as governance human conflict and social dislocation influence current and likely future epidemics Provides essential understanding of current and future epidemics Presents a crossover perspective for disciplines in the medical and social sciences and public policy including public health infectious diseases population science epidemiology microbiology food safety defense preparedness and humanitarian relief Creates a new perspective on ecology based on the interaction of microbes and human activities Encyclopedia of Pestilence, Pandemics, and Plagues Joseph P. Byrne,2008-09-30 Editor Joseph P Byrne together with an advisory board of specialists and over 100 scholars research scientists and medical practitioners from 13 countries has produced a uniquely interdisciplinary treatment of the ways in which diseases pestilence and plagues have affected human life From the Athenian flu pandemic to the Black Death to AIDS this extensive two volume set offers a sociocultural historical and medical look at infectious diseases and their place in

human history from Neolithic times to the present Nearly 300 entries cover individual diseases such as HIV AIDS malaria Ebola and SARS major epidemics such as the Black Death 16th century syphilis cholera in the nineteenth century and the Spanish Flu of 1918 19 environmental factors such as ecology travel poverty wealth slavery and war and historical and cultural effects of disease such as the relationship of Romanticism to Tuberculosis the closing of London theaters during plague epidemics and the effect of venereal disease on social reform Primary source sidebars over 70 illustrations a glossary and an extensive print and nonprint bibliography round out the work *Epidemic Encounters* Magda Fahrni, Esyllt W. Jones, 2012-05-24 Health crises such as the SARS epidemic and H1N1 have rekindled interest in the 1918 influenza pandemic which swept the globe after the First World War and killed approximately fifty million people *Epidemic Encounters* examines the pandemic in Canada where one third of the population took ill and fifty five thousand people died What role did social inequalities play in determining who survived How did the authorities health care workers and ordinary citizens respond Contributors answer these questions as they pertained to both local and national contexts In the process they offer new insights into medical history s usefulness in the struggle against epidemic disease **Disease and Crime** Robert Peckham, 2013-12-04 Disease and crime are increasingly conflated in the contemporary world News reports proclaim epidemics of crime while politicians denounce terrorism as a lethal pathological threat Recent years have even witnessed the development of a new subfield epidemiological criminology which merges public health with criminal justice to provide analytical tools for criminal justice practitioners and health care professionals Little attention however has been paid to the historical contexts of these disease and crime equations or to the historical continuities and discontinuities between contemporary invocations of crime as disease and the emergence of criminology epidemiology and public health in the second half of the nineteenth century When how and why did this pathologization of crime and criminalization of disease come about This volume addresses these critical questions exploring the discursive construction of crime and disease across a range of geographical and historical settings **Chinese Walls in Time and Space** Roger Des Forges, Minglu Gao, Chiao-mei Liu, Haun Saussy, 2010-03-31 Are walls remnants of ancient and medieval societies destined to become anachronistic in modern and post modern times Or will they persist shaping as well as adjusting to new conditions Do walls necessarily constrain and even isolate those who live within them or can they act as a medium of support and communication for people on both sides This volume addresses these questions Authors from six disciplines history art law medicine communication and film provide multiple perspectives on various kinds of walls material ones around and within states cities and towns as well as virtual ones regulating the administration of justice the flow of pathogens and the transmission of information *Pandemics and Global Health* Barry Youngerman, 2008 Presents a guide to the issues of pandemics and world health including definitions primary sources case studies research tools organizations and notable persons **Features, Transmission, Detection, and Case Studies in COVID-19** Rajkumar Rajendram, Victor R Preedy, Vinood Patel, 2024-06-15

Features Transmission Detection and Case Studies in COVID 19 examines the effects of the virus on the body as well as its transmission and clinical profile This volume begins with an introduction to the virus and its pathogenesis transmission and avoidance followed by sections on pulmonary and cardiovascular effects obesity diabetes the liver detection issues and biomarkers Vaccines and treatment are also discussed Specific case studies covered include hypoxia acute kidney injury pneumonia and neurological effects This volume is relevant for all clinicians and scientists working to ensure the best outcomes for patients with COVID 19 Discusses COVID 19 biology including pathogenesis and transmission Describes systemic issues caused by COVID 19 including cardiovascular effects and loss of taste and smell Outlines detection methods biomarkers associated with severity and disease outcomes Features individual chapter introductions summaries and case studies to provide comprehensive descriptions of COVID 19 symptoms and effects Contains chapters with key facts dictionary of terms summary points applications to other areas pertinent to each chapter and policies and procedures

The COVID-19 Pandemic Joseph M. Rosen,Rita R. Colwell,2024-09-16 This book provides an overview of the science and technology that helps us understand the trajectory i e genomics epidemiology and health care of the COVID 19 pandemic its virus and pathogenicity Topics that are covered include how the virus is impacting our health care system and the economy Simulation modeling used to predict the spread of the virus and risk of infection in America and globally is included as well as the critical role of communication in pandemic response An important focus is synthetic biology notably employed in the development and production of effective diagnostics that can be rapidly deployed and development of vaccines in unlimited quantity US and global production of vaccine is discussed Most importantly treatment of patients infected with the virus that includes telemedicine and virtual reality for remote intensive care settings is a significant aspect of the discussion

Biotechnology plays a major role in responding to the COVID 19pandemic and advances utilized in the engineering sciences are introduced

Pathogens for War Donald H. Avery,2013-04-28 Pathogens for War explores how Canada and its allies have attempted to deal with the threat of germ warfare one of the most fearful weapons of mass destruction since the Second World War In addressing this subject distinguished historian Donald Avery investigates the relationship between bioweapons poison gas and nuclear devices as well as the connection between bioattacks and natural disease pandemics Avery emphasizes the crucially important activities of Canadian biodefence scientists beginning with Nobel Laureate Frederick Banting at both the national level and through cooperative projects within the framework of an elaborate alliance system Delving into history through a rich collection of declassified documents Pathogens for War also devotes several chapters to the contemporary challenges of bioterrorism and disease pandemics from both national and international perspectives As such readers will not only learn about Canada s secret involvement with biological warfare but will also gain new insights into current debates about the peril of bioweapons one of today s greatest threats to world peace

Human-Animal Interactions in Anthropocene Asia Victor Teo,2023-03-03 This book examines the theme of human animal interactions

contextualized against the idea of the Anthropocene Focused on China and its immediate Asian borderlands this interdisciplinary collection provides a powerful and insightful analysis of the ecological challenges that mankind's traditional activities have created Through in depth case studies each focusing on a particular human animal dynamic the book contextualizes and advances the understanding of existing environmental and ecological problems faced by local communities in Asia In particular the book hopes to transcend the duality of the nature versus culture debate by locating animal ecological problems in the behavior of human institutions beliefs and practices which are often affected by prevailing cultural proclivities political ideologies economic interests and scientific agendas Through interrogation of theoretical concepts of Anthropocene and human animal binary the volume highlights the controversial debates that follow their usage as well as their empirical utility understanding human animal interactions historically thereby engaging a broader interdisciplinary conversation increasingly links these two fields together Providing a platform for discussion and dialogue for a wide audience this book will appeal to students and scholars of environmental history and politics anthropology political science and policy studies China studies and Asian studies more generally

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