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Pharmacy, Romania

*CORRESPONDENCE
Jiunn-Ren Wu
✉ jrwu@gmail.com.tw

[†]These authors have contributed
equally to this work and share
first authorship

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Changing patterns of infectious diseases in children during the COVID-19 pandemic

Ming-Chun Yang^{1,2†}, Yu-Tsun Su^{1,2†}, Ping-Hong Chen¹,
Ching-Chung Tsai^{1,3}, Ting-I Lin¹ and Jiunn-Ren Wu^{1*}

¹Department of Pediatrics, E-Da Hospital, I-Shou University, Kaohsiung, Taiwan, ²School of Medicine, College of Medicine, I-Shou University, Kaohsiung, Taiwan, ³School of Medicine for International Students, College of Medicine, I-Shou University, Kaohsiung, Taiwan

Each infectious disease has had its own epidemic pattern and seasonality for decades. However, public health mitigation measures during the coronavirus disease 2019 (COVID-19) pandemic have resulted in changing epidemic patterns of infectious diseases. Stringent measures resulted in low incidences of various infectious diseases during the outbreak of COVID-19, including influenza, respiratory syncytial virus, pneumococcus, enterovirus, and parainfluenza. Owing to the prevalence of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infections and subsequent immunity development, decreasing virulence of SARS-CoV-2, and worldwide immunization against SARS-CoV-2 in children beyond 6 months of age, mitigation measures are lifted country by country. Consequently, the immunity debt to infectious respiratory viruses other than SARS-CoV-2 contributed to the “off-season,” “see-saw,” and “upsurge” patterns of various infectious diseases in children. Moreover, apart from the persistence of SARS-CoV-2, the coexistence of other circulating viruses or bacterial outbreaks may lead to twindemics or tripleemics during the following years. Therefore, it is necessary to maintain hand hygiene and immunization policies against various pathogens to alleviate the ongoing impact of infectious diseases on children.

KEYWORDS

coronavirus disease 2019, immune debt, influenza, pediatric, pneumococcus, respiratory tract infection, respiratory syncytial virus

1 Introduction

The coronavirus disease 2019 (COVID-19) pandemic has increased worldwide since the beginning of 2020, resulting in devastating medical and economic impacts. Globally, countries have adopted various response strategies to slow the spread of COVID-19 (Yu *et al.*, 2021). These mitigation measures not only influenced transmission of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), but also resulted in changing patterns of infectious diseases, especially those transmitted by respiratory pathogens. Since the beginning of the COVID-19 pandemic, severity of COVID-19-related illness, mutation of

Changing Patterns Of Infectious Disease

**Adam Feather, David Randall, Mona
Waterhouse**



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Changing Patterns of Infectious Disease Lois M. Bergquist, **Changing Patterns of Infectious Disease** Lois M. Bergquist, 1984 *Infectious Diseases in an Age of Change* for the National Academy of Sciences, 1995-03-03 Twenty first century progress against infectious diseases is threatened by urbanization population growth war refugees changing sexual standards and a host of other factors that open doors to the transmission of deadly pathogens *Infectious Diseases in an Age of Change* reports on major infectious diseases that are on the rise today because of changing conditions and identifies urgently needed public health measures This volume looks at the range of factors that shape the epidemiology of infectious diseases from government policies to economic trends to family practices Describing clinical characteristics transmission and other aspects the book addresses major infectious threats sexually transmitted diseases Lyme disease human cytomegalovirus diarrheal diseases dengue fever hepatitis viruses HIV and malaria The authors also look at the rising threat of drug resistant strains of tuberculosis rapid exhaustion of the weapons to fight bacterial infections and prospects for vaccinations and eradication of pathogens *Infectious Diseases in an Age of Change* will be important to public health policymakers administrators and providers as well as epidemiologists and researchers [The Global Threat of New and Reemerging Infectious Diseases](#) Jennifer Brower, Peter Chalk, 2003-03-21 This study offers a more comprehensive analysis of the security implications of the spread of infectious diseases than has been done to date The study examines the impact of the HIV AIDS epidemic in South Africa highlighting this particular crisis as a graphic example of the devastating effects that infectious disease can have on virtually every aspect of a state's functioning viability It also makes a detailed analysis of the United States delineating the threat posed by specific diseases assessing the effectiveness of the existing public health infrastructure and offering specific actions that can be taken to improve the country's ability to meet this emerging challenge ISBN 0 8330 3293 3 Price 20 00 Est page count last roman xvii **Viral Infections and Global Change** Sunit Kumar Singh, 2013-10-10 A timely exploration of the impact of global change on the emergence reemergence and control of vector borne and zoonotic viral infections From massively destructive superstorms to rapidly rising sea levels the world media is abuzz with talk of the threats to civilization posed by global warming But one hazard that is rarely discussed is the dramatic rise in the number and magnitude of tropical virus outbreaks among human populations One need only consider recent developments such as the spread of chikungunya across southern Europe and dengue in Singapore Brazil and the southern United States to appreciate the seriousness of that threat Representing a major addition to the world literature on the subject *Viral Infections and Global Change* explores trends of paramount concern globally regarding the emergence and reemergence of vector borne and zoonotic viruses It also provides up to date coverage of both the clinical aspects and basic science behind an array of specific emerging and reemerging infections including everything from West Nile fever and Rift Valley fever to zoonotic hepatitis E and human bunyavirus Important topics covered include Epidemiology molecular

pathogenesis and evolutionary mechanisms Host pathogen interactions in an array of viral infections The impact of climate change on historical viral outbreaks The roles of socioeconomics human behavior and animal and human migrations The growing prevalence of drug and pesticide resistance The introduction of microbes and vectors through increased transboundary travel Spillover transmissions and the emergence of viral outbreaks Detecting and responding to threats from bioterrorism and emerging viral infections Predictive modeling for emerging viral infections Viral Infections and Global Change is an indispensable resource for research scientists epidemiologists and medical and veterinary students working in ecology environmental management climatology neurovirology virology and infectious disease *The Potential Effects of Global Climate Change on the United States*, 1989 **Emerging Infectious Diseases**, 2011 **Current Trends and Concerns in Infectious Diseases** I. W. Fong, 2020-03-06 A follow up to *Emerging Issues and Controversies in Infectious Diseases* this volume provides a comprehensive review of topical issues in infectious diseases highlighting the controversies related to the newest findings and recommendations Coverage includes trends and debates in HIV research community acquired pneumonia H pylori progress in Hepatitis C treatment paired with the lack of progress on Hepatitis B and the effects of climate change on infectious disease epidemiology among others This is an essential resource for practicing and academic physicians investigators residents and fellows focused on infectious diseases infection control public health and global health **The Oxford Companion to Global Change** David J. Cuff, 2008 In recent years global change has become increasingly important in technological ecological and political spheres This companion examines the environmental events of recent times and investigates long term trends as well as broader issues of global change [Encyclopedia of Global Change](#) Andrew S. Goudie, 2002 Mapping the relationship between human society and the Earth the *Encyclopedia of Global Change* is the first general reference guide to the impact of politics population economics and technology on the planet Containing over 300 original signed articles by distinguished scholars it is the comprehensive work for this multi discipline high profile field The *Encyclopedia* synthesizes current knowledge on natural and human made changes in the Earth's physical chemical and biological systems and the effects of these changes on society Areas such as altered ecosystems climate change food supply water production and consumption population and the political impact of global change are covered in detail And the clearly written articles also include responses to global modification agreements and associations institutions policies biographies and case studies Enhanced by 1 500 illustrations extensive cross references bibliographies and an index the *Encyclopedia of Global Change* links essential knowledge across many fields geography geology geophysics atmospheric science political science economics technology and others in a resource that is both accessible and authoritative The jargon free language makes it an excellent work for the professional scholar as well as the interested general reader [Ageing, Wellbeing and Climate Change in the Arctic](#) Paivi Naskali, Marjaana Seppänen, Shahnaj Begum, 2015-11-19 The Arctic and its unique natural resources have become objects of increasing concern Rapid climate change and ageing of the

population are transforming the living conditions in the region This translates into an urgent need for information that will contribute to a better understanding of these issues Ageing Wellbeing and Climate Change in the Arctic addresses the important intersection of ageing wellbeing and climate change in the Arctic region making a key interdisciplinary contribution to an area of research on which little has been written and limited sources of information are currently available The book explores three key areas of discussion First various political issues that are currently affecting the Arctic such as the social categorisation of elderly people Second the living conditions of the elderly in relation to Arctic climate change Third the wellbeing of elderly people in terms of traditional knowledge and lifestyles The book also features contributions from a number of key researchers in the field which examine a broad range of case studies including the impact of climate change on health in Lapland and elderly people and geographical mobility in Norway This book will be of great interest to scholars of climate change gerontology and social policy

Textbook of Adult Emergency Medicine E-Book Peter Cameron, Mark Little, Biswadev Mitra, Conor Deasy, 2019-05-23 Since the first edition of Textbook of Adult Emergency Medicine was published twenty years ago there has been enormous change in the way emergency care is delivered This has occurred both in countries where emergency medicine was originally developed and in those where its application was limited because of cost Emergency medicine is now perceived as the cornerstone of response to acute illness regardless of resources This fully revised Fifth Edition provides clear and consistent coverage of this constantly evolving specialty Building on the success of previous editions it covers all the major topics relevant to the practice of emergency medicine The book will prove invaluable to professionals working in this setting including nurse specialists and paramedics who require concise highly practical guidance incorporating the latest best practice and evidence based guidelines This edition comes with an enhanced electronic version with video and self assessment content providing a richer learning experience and making rapid reference easier than ever before anytime anywhere A comprehensive textbook of adult emergency medicine for trainee doctors covers all the problems likely to present to a trainee in the emergency department Chapters are highly readable and concise boxes summarise chapter key points and highlight controversial areas of treatment The content is highly practical clinically orientated and thoroughly updated in all the core subjects There have been major updates in topics such as airway shock and sepsis where guidelines have changed rapidly The imaging chapters have also evolved with changing practice and improved technology to be concordant with evidence on the importance of image interpretation by emergency clinicians There are major sections on other skills and issues of key importance to today's advanced emergency medicine practitioner such as staffing overcrowding triage patient safety and quality measures In addition difficult topics such as death and dying the challenging patient ethics giving evidence and domestic violence are covered Governance training research and organisational subjects such as disaster planning and response humanitarian emergencies and refugee medicine are included to give the reader a framework to understand the complexity of managing major emergency systems of care *Climate*

Change Management and Social Innovations for Sustainable Global Organization Dave, Sumita, Sainy, Monica, Sharma, Disha, Singh, Anupam, 2023-09-15 The issue of climate change poses a significant challenge to organizations worldwide affecting the availability and quality of essential resources such as energy water and manpower This research book emphasizes the urgent need for social and technological innovations to address the negative impact of climate change and transition towards a Net Zero economy Strategies such as lifestyle alterations efficient resource utilization and adoption of clean technologies can assist organizations in dealing with this global concern Climate Change Management and Social Innovations for Sustainable Global Organization offers a comprehensive examination of the nature and impact of climate change on businesses including case studies and strategies for mitigating its effects The book also assesses the role of frugal innovations resource utilization patterns and lifestyles on greenhouse gas emissions promoting Net Zero practices It is a valuable resource for professionals and researchers in the field of climate change and sustainable development including policy makers corporate decision makers environmentalists and academics Furthermore the book can be used as supporting material for undergraduate and master s business students and managers interested in exploring the link between sustainable development and climate change

Climate Change and Public Health Barry S. Levy, Jonathan Patz, 2015 Climate change is causing and will increasingly cause a wide range of adverse health effects including heat related disorders infectious diseases respiratory and allergic disorders malnutrition mental health problems and violence The scientific bases for the associations between climate change and health problems are evolving as are the strategies for adapting to climate change and mitigating the greenhouse gases which are its primary cause With contributions from 78 leading experts in climate change and in public health this book contains a concise and comprehensive book that represents a core curriculum on climate change and public health including key strategies for adaptation and mitigation Written primarily for students and mid career professionals in public health and environmental sciences the book clearly describes concepts and their application to the health impacts of climate change Chapters are supplemented with case studies graphs tables and photographs The book s organization in 15 chapters makes it an ideal textbook for graduate and undergraduate courses in public health environmental sciences public policy and other fields

Departments of Labor, Health and Human Services, Education, and Related Agencies Appropriations for 2000 United States. Congress. House. Committee on Appropriations. Subcommittee on the Departments of Labor, Health and Human Services, Education, and Related Agencies, 1999

Infectious Diseases in Critical Care Jordi Rello, Martin H. Kollef, Emilio Díaz, Alejandro Rodríguez, 2010-05-28 Infections and their complications are a very important clinical area in the intensive care unit setting Community acquired infections and nosocomial infections both contribute to the high level of disease acquisition common among critically ill patients The accurate diagnosis of nosocomial infections and the provision of appropriate therapies including antimicrobial therapy effective against the identified agents of infection have been shown to be important determinants of patient outcome Critical

care practitioners are in a unique position in dealing with infectious diseases. They are often the initial providers of care to seriously ill patients with infections. Additionally, they have a responsibility to ensure that nosocomial infections are prevented and that antimicrobial resistance is minimized by prudently employing antibiotic agents. It is the editors' hope that this book will provide clinicians practicing in the intensive care unit with a reference to help guide their care of infected patients. To that end, they have brought together a group of international authors to address important topics related to infectious diseases for the critical care practitioner.

Drinking Water and Infectious Disease Paul Raymond Hunter, Michael Waite, Elettra Ronchi, 2002-07-30. In many countries, considerable uncertainty still exists about the contribution of drinking water to sporadic cases of disease. The Organization for Economic Cooperation and Development (OECD) in cooperation with the World Health Organization (WHO) led the Workshop on Molecular Technologies for Safe Drinking Water in 1998 to address the role of water.

Kumar and Clark's Clinical Medicine E-Book Adam Feather, David Randall, Mona Waterhouse, 2020-06-19. Now in its tenth edition, Kumar David Randall MA MRCP and Mona Waterhouse MA MRCP. Contributors comprise consultants at the top of their fields paired with younger doctors closer to the exam experience to ensure authority and relevance. Enhanced e-book accompanies the print book for ease of transportation and use on the move. International Advisory Board led by Professor Janaka de Silva and Professor Senaka Rajapakse providing guidance for global coverage from across the world. Contributions to the e-book by members of the International Advisory Board to amplify areas of clinical importance in their parts of the world. Featuring new chapters covering:

- o Diagnosis: the art of being a doctor helping readers to develop a confident clinical method in interactions with patients.
- o Geriatric medicine: frailty and multimorbidity.
- o Public health.
- o Surgery.
- o Evidence-based medicine.
- o Sepsis.
- o Haematological.
- o Oncology.
- o Venous thromboembolic disease.
- o Hypertension.
- o Men's health.
- o Obstetric medicine.

Enhanced clinical skills content has been added to most chapters helping readers tailor history taking and examination skills to specific specialty-based contexts.

Climate Change Impact on Livestock: Adaptation and Mitigation Veerasamy Sejian, John Gaughan, Lance Baumgard, Cadaba Prasad, 2015-03-31. This volume addresses in detail both livestock's role in climate change and the impacts of climate change on livestock production and reproduction. Apart from these cardinal principles of climate change and livestock production, this volume also examines the various strategies used to mitigate livestock-related GHG emissions and those which can reduce the impacts of climate change on livestock production and reproduction. Presenting information and case studies collected and analyzed by professionals working in diversified ecological zones, the book explores the influence of climate change on livestock production across the globe. The most significant feature of this book is that it addresses in detail the different adaptation strategies and identifies targets for different stakeholders in connection with climate change and livestock production. Further, it puts forward development plans that will allow the livestock industries to cope with current climate changes and strategies that will mitigate the effects by 2025. Lastly, it provides researchers and policymakers several

researchable priorities to help develop economically viable solutions for livestock production with less GHG emissions promoting a cleaner environment in which human beings and livestock can live in harmony without adverse effects on productivity Given that livestock production systems are sensitive to climate change and at the same are themselves a contributor to the phenomenon climate change has the potential to pose an increasingly formidable challenge to the development of the livestock sector However there is a dearth of scientific information on adapting livestock production to the changing climate as such well founded reference material on sustaining livestock production systems under the changing climate scenarios in different agro ecological zones of the world is essential By methodically and extensively addressing all aspects of climate change and livestock production this volume offers a valuable tool for understanding the hidden intricacies of climatic stress and its influence on livestock production

Feigin and Cherry's Textbook of Pediatric Infectious Diseases - E-Book James Cherry, Sheldon L. Kaplan, Gail J. Demmler-Harrison, William Steinbach, Peter J. Hotez, John V Williams, 2024-08-29 Selected for 2025 Doody's Core Titles in Pediatrics Widely considered the premier text in pediatric infectious diseases Feigin and Cherry's Textbook of Pediatric Infectious Diseases 9th Edition provides authoritative up to date coverage of this rapidly changing field Extensively revised by Drs James Cherry Sheldon L Kaplan Gail J Demmler Harrison William J Steinbach Peter J Hotez and new editor John V Williams this two volume reference delivers the information you need on epidemiology public health preventive medicine clinical manifestations diagnosis treatment and much more It serves as a reliable everyday resource for practicing ID specialists and an invaluable reference for medical students residents and fellows in ID pediatricians and internists and others who work with neonates children and adolescents or in public health Discusses infectious diseases according to organ systems that may be affected as well as individually by microorganisms placing emphasis on clinical manifestations that may be related to the organism causing the disease Provides detailed information regarding the best means to establish a diagnosis explicit recommendations for therapy and the most appropriate uses of diagnostic imaging Includes expanded information on Q fever antibiotic resistance and antibiotic agents human coronaviruses pox viruses and infections in the compromised host and contains new COVID 19 content across numerous chapters Features a new chapter on antimicrobial stewardship and new coverage of antivirals for pox viruses Reflects today's more aggressive infectious and antibiotic resistant organisms as well as emerging and re emerging infectious diseases Contains hundreds of full color images many are new including clinical photos radiographic images drawings charts and graphs

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Table of Contents Changing Patterns Of Infectious Disease

1. Understanding the eBook Changing Patterns Of Infectious Disease
 - The Rise of Digital Reading Changing Patterns Of Infectious Disease
 - Advantages of eBooks Over Traditional Books
2. Identifying Changing Patterns Of Infectious Disease
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Changing Patterns Of Infectious Disease
 - User-Friendly Interface
4. Exploring eBook Recommendations from Changing Patterns Of Infectious Disease
 - Personalized Recommendations
 - Changing Patterns Of Infectious Disease User Reviews and Ratings
 - Changing Patterns Of Infectious Disease and Bestseller Lists
5. Accessing Changing Patterns Of Infectious Disease Free and Paid eBooks
 - Changing Patterns Of Infectious Disease Public Domain eBooks
 - Changing Patterns Of Infectious Disease eBook Subscription Services
 - Changing Patterns Of Infectious Disease Budget-Friendly Options

6. Navigating Changing Patterns Of Infectious Disease eBook Formats
 - ePub, PDF, MOBI, and More
 - Changing Patterns Of Infectious Disease Compatibility with Devices
 - Changing Patterns Of Infectious Disease Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Changing Patterns Of Infectious Disease
 - Highlighting and Note-Taking Changing Patterns Of Infectious Disease
 - Interactive Elements Changing Patterns Of Infectious Disease
8. Staying Engaged with Changing Patterns Of Infectious Disease
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Changing Patterns Of Infectious Disease
9. Balancing eBooks and Physical Books Changing Patterns Of Infectious Disease
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Changing Patterns Of Infectious Disease
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Changing Patterns Of Infectious Disease
 - Setting Reading Goals Changing Patterns Of Infectious Disease
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Changing Patterns Of Infectious Disease
 - Fact-Checking eBook Content of Changing Patterns Of Infectious Disease
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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