

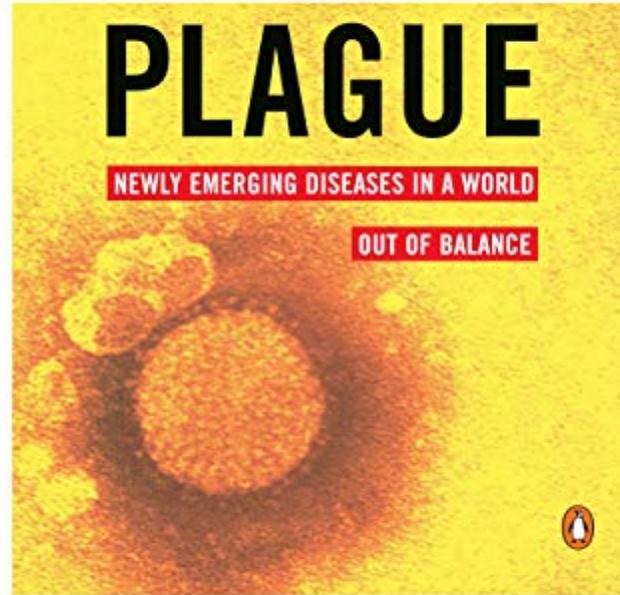
The *New York Times* Bestseller

# THE COMING

# PLAGUE

NEWLY EMERGING DISEASES IN A WORLD

OUT OF BALANCE



Laurie Garrett

Pulitzer Prize winning reporter and author of *Betrayal of Trust*

# [MOBI] The Coming Plague: Newly Emerging Diseases In A World Out Of Balance

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**The Coming Plague**-Laurie Garrett 1994-10-31 A New York Times bestseller The definitive account of the infectious diseases threatening humanity by Pulitzer Prize-winning investigative journalist Laurie Garrett "Prodigiously researched . . . A frightening vision of the future and a deeply unsettling one." —Michiko Kakutani, The New York Times After decades spent assuming that the conquest of infectious disease was imminent, people on all continents now find themselves besieged by AIDS, drug-resistant tuberculosis, cholera that defies chlorine water treatment, and exotic viruses that can kill in a matter of hours. Relying on extensive interviews with leading experts in virology, molecular biology, disease ecology, and medicine, as well as field research in sub-Saharan Africa, Western Europe, Central America, and the United States, Laurie Garrett's *The Coming Plague* takes readers from the savannas of eastern Bolivia to the rain forests of the northern Democratic Republic of the Congo on a harrowing, fifty year journey through the history of our battles with microbes. This book is a work of investigative reportage like no other and a wake-up call to a world that has become complacent in the face of infectious

disease—one that offers a sobering and prescient warning about the dangers of ignoring the coming plague.

**Betrayal of Trust**-Laurie Garrett 2011-05-10 In this "meticulously researched" account (New York Times Book Review), a Pulitzer Prize-winning author examines the dangers of a failing public health system unequipped to handle large-scale global risks like a coronavirus pandemic. The New York Times bestselling author of *The Coming Plague*, Laurie Garrett takes on perhaps the most crucial global issue of our time in this eye-opening book. She asks: is our collective health in a state of decline? If so, how dire is this crisis and has the public health system itself contributed to it? Using riveting detail and finely-honed storytelling, exploring outbreaks around the world, Garrett exposes the underbelly of the world's globalization to find out if it can still be assumed that government can and will protect the people's health, or if that trust has been irrevocably broken. "A frightening vision of the future and a deeply unsettling one . . . a sober, scary book that not only limns the dangers posed by emerging diseases but also raises serious questions about two centuries' worth of Enlightenment

beliefs in science and technology and progress." -- Michiko Kakutani, The New York Times

**Spillover: Animal Infections and the Next Human Pandemic**-David Quammen 2012-10-01 Examines the emergence and causes of new diseases all over the world, describing a process called "spillover" where illness originates in wild animals before being passed to humans and discusses the potential for the next huge pandemic. 70,000 first printing.

**Epidemics: The Impact of Germs and Their Power Over Humanity**-Joshua S. Loomis 2018-01-18 This book comprehensively reviews the 10 most influential epidemics in history, going beyond morbid accounts of symptoms and statistics to tell the often forgotten stories of what made these epidemics so calamitous. • Discusses epidemic disease as a major driving force in shaping our world • Brings epidemic diseases out of the background of historical narratives and demonstrates how they have had an immensely important role in deciding wars, toppling empires, sparking major leaps in technology, and even changing the human genome • Integrates science with history, sociology, religion, and other disciplines to provide the reader with a unique perspective not found in most other accounts of epidemic disease • Shares fascinating insights such as how an epidemic of yellow fever helped to double the size of the United States and why tuberculosis was once considered a disease of the intellectual elite

**The Law of Public Health and Safety**-Leroy Parker 1892

**Pandemic**-Sonia Shah 2016-02-16 Finalist for the Los Angeles Times Book Prize | A New York Times Editor's Choice "[A] grounded, bracingly intelligent study" —Nature Prizewinning science journalist Sonia Shah presents a startling examination of the pandemics that have ravaged humanity—and shows us how history can prepare us to confront the most serious acute global health emergency of our time. Over the past fifty years, more than three hundred infectious diseases have either emerged or

reemerged, appearing in places where they've never before been seen. Years before the sudden arrival of COVID-19, ninety percent of epidemiologists predicted that one of them would cause a deadly pandemic sometime in the next two generations. It might be Ebola, avian flu, a drug-resistant superbug, or something completely new, like the novel virus the world is confronting today. While it was impossible to predict the emergence of SARS-CoV-2—and it remains impossible to predict which pathogen will cause the next global outbreak—by unraveling the stories of pandemics past we can begin to better understand our own future, and to prepare for what it holds in store. In *Pandemic: Tracking Contagions, from Cholera to Ebola and Beyond*, Sonia Shah interweaves history, original reportage, and personal narrative to explore the origins of epidemics, drawing parallels between cholera—one of history's most deadly and disruptive pandemic-causing pathogens—and the new diseases that stalk humankind today. She tracks each stage of cholera's dramatic journey, from its emergence in the South Asian hinterlands as a harmless microbe to its rapid dispersal across the nineteenth-century world, all the way to its latest beachhead in Haiti. Along the way she reports on the pathogens now following in cholera's footsteps, from the MRSA bacterium that besieges her own family to the never-before-seen killers coming out of China's wet markets, the surgical wards of New Delhi, and the suburban backyards of the East Coast. Delving into the convoluted science, strange politics, and checkered history of one of the world's deadliest diseases, *Pandemic* is a work of epidemiological history like no other, with urgent lessons for our own time. "Shah proves a disquieting Virgil, guiding us through the hells ruled by [infectious diseases] . . . the power of Shah's account lies in her ability to track simultaneously the multiple dimensions of the public-health crises we are facing." —The Chicago Tribune

**Pandemic**-Connie Goldsmith 2018-08-01 Throughout history, several deadly pandemics brought humanity to its knees, killing millions, and recent outbreaks of Ebola and Zika took coordinated international efforts to prevent them from spreading. Learn about factors that contribute to the spread of disease by examining past pandemics and epidemics, including the Bubonic Plague, smallpox Ebola, HIV/AIDS, and Zika. Examine case studies of potential pandemic diseases, like SARS and cholera, and find out how pathogens and antibiotics work. See how human activities such as

global air travel and the disruption of animal habitats contribute to the risk of a new pandemic. And discover how scientists are striving to contain and control the spread of disease, both locally and globally.

**When Germs Travel**-Howard Markel 2009-01-21 The struggle against deadly microbes is endless. Diseases that have plagued human beings since ancient times still exist, new maladies make their way into the headlines, we are faced with vaccine shortages, and the threat of germ warfare has reemerged as a worldwide threat. In this riveting account, medical historian Howard Markel takes an eye-opening look at the fragility of the American public health system. He tells the distinctive stories of six epidemics-tuberculosis, bubonic plague, trachoma, typhus, cholera, and AIDS-to show how our chief defense against diseases from outside the United States has been to attempt to deny entry to carriers. He explains why this approach never worked, and makes clear that it is useless in today's world of bustling international travel and porous borders. Illuminating our foolhardy attempts at isolation and showing that globalization renders us all potential inhabitants of the so-called Hot Zone, Markel makes a compelling case for a globally funded public health program that could stop the spread of epidemics and safeguard the health of everyone on the planet.

**The Pandemic Century: One Hundred Years of Panic, Hysteria, and Hubris**-Mark Honigsbaum 2019-04-09 With a New Chapter and Updated Epilogue on Coronavirus A Financial Times Best Health Book of 2019 and a New York Times Book Review Editors' Choice "Honigsbaum does a superb job covering a century's worth of pandemics and the fears they invariably unleash." —Howard Markel, MD, PhD, director of the Center for the History of Medicine, University of Michigan How can we understand the COVID-19 pandemic? Ever since the 1918 Spanish influenza pandemic, scientists have dreamed of preventing such catastrophic outbreaks of infectious disease. Yet despite a century of medical progress, viral and bacterial disasters continue to take us by surprise, inciting panic and dominating news cycles. In *The Pandemic Century*, a lively account of scares both infamous and less known, medical historian Mark Honigsbaum combines reportage with the

history of science and medical sociology to artfully reconstruct epidemiological mysteries and the ecology of infectious diseases. We meet dedicated disease detectives, obstructive or incompetent public health officials, and brilliant scientists often blinded by their own knowledge of bacteria and viruses—and see how fear of disease often exacerbates racial, religious, and ethnic tensions. Now updated with a new chapter and epilogue.

**The Demon in the Freezer**-Richard Preston 2003 Now in paperback--the timely and terrifying investigation into the dark underworld of biological weapons from the #1 "New York Times" bestselling author of "The Hot Zone."

**The Great Manchurian Plague of 1910-1911**-William C. Summers 2012-12-11 When plague broke out in Manchuria in 1910 as a result of transmission from marmots to humans, it struck a region struggling with the introduction of Western medicine, as well as with the interactions of three different national powers: Chinese, Japanese, and Russian. In this fascinating case history, William Summers relates how this plague killed as many as 60,000 people in less than a year, and uses the analysis to examine the actions and interactions of the multinational doctors, politicians, and ordinary residents who responded to it. Summers covers the complex political and economic background of early twentieth-century Manchuria and then moves on to the plague itself, addressing the various contested stories of the plague's origins, development, and ecological ties. Ultimately, Summers shows how, because of Manchuria's importance to the world powers of its day, the plague brought together resources, knowledge, and people in ways that enacted in miniature the triumphs and challenges of transnational medical projects such as the World Health Organization.

**Outbreak!**-Beth Skwarecki 2016-10-01 From ancient scourges to modern-day pandemics! Throughout history--even recent history--highly contagious, deadly, and truly horrible epidemics have swept through cities, countrysides, and even entire countries. *Outbreak!* catalogs fifty of those

incidents in gruesome detail, including: The Sweating Sickness that killed 15,000, including Henry VIII's older brother Syphilis, the "French Disease," which spread throughout Europe in the late fifteenth century The romantic disease: tuberculosis, featured in La Boheme, La Traviata, and Les Miserables The worldwide outbreak of influenza in 1918, which killed 3 percent of the population The mysterious appearance of HIV in the 1980s The devastating spread of Ebola in West Africa in 2014 From ancient outbreaks of smallpox and plague to modern epidemics such as SARS and Ebola, the stories capture the mystery and devastation brought on by these diseases. It's a sickeningly fun read that confirms the true definition of going viral.

**Epidemics and Society**-Frank M. Snowden 2019-10-22 A wide-ranging study that illuminates the connection between epidemic diseases and societal change, from the Black Death to Ebola This sweeping exploration of the impact of epidemic diseases looks at how mass infectious outbreaks have shaped society, from the Black Death to today. In a clear and accessible style, Frank M. Snowden reveals the ways that diseases have not only influenced medical science and public health, but also transformed the arts, religion, intellectual history, and warfare. A multidisciplinary and comparative investigation of the medical and social history of the major epidemics, this volume touches on themes such as the evolution of medical therapy, plague literature, poverty, the environment, and mass hysteria. In addition to providing historical perspective on diseases such as smallpox, cholera, and tuberculosis, Snowden examines the fallout from recent epidemics such as HIV/AIDS, SARS, and Ebola and the question of the world's preparedness for the next generation of diseases.

**The Next Pandemic**-Ali Khan 2016-05-24 An inside account of the fight to contain the world's deadliest diseases--and the panic and corruption that make them worse Throughout history, humankind's biggest killers have been infectious diseases: the Black Death, the Spanish Flu, and AIDS alone account for over one hundred million deaths. We ignore this reality most of the time, but when a new threat--Ebola, SARS, Zika--seems imminent, we send our best and bravest doctors to contain it. People like Dr. Ali S. Khan. In his long career as a public health first responder--protected by a thin

mask from infected patients, napping under nets to keep out scorpions, making life-and-death decisions on limited, suspect information--Khan has found that rogue microbes will always be a problem, but outbreaks are often caused by people. We make mistakes, politicize emergencies, and, too often, fail to imagine the consequences of our actions. The Next Pandemic is a firsthand account of disasters like anthrax, bird flu, and others--and how we could do more to prevent their return. It is both a gripping story of our brushes with fate and an urgent lesson on how we can keep ourselves safe from the inevitable next pandemic.

**The Vaccine Race**-Meredith Wadman 2017-02-07 "A real jewel of science history...brims with suspense and now-forgotten catastrophe and intrigue...Wadman's smooth prose calmly spins a surpassingly complicated story into a real tour de force."—The New York Times "Riveting . . . [The Vaccine Race] invites comparison with Rebecca Skloot's 2007 The Immortal Life of Henrietta Lacks."—Nature The epic and controversial story of a major breakthrough in cell biology that led to the conquest of rubella and other devastating diseases. Until the late 1960s, tens of thousands of American children suffered crippling birth defects if their mothers had been exposed to rubella, popularly known as German measles, while pregnant; there was no vaccine and little understanding of how the disease devastated fetuses. In June 1962, a young biologist in Philadelphia, using tissue extracted from an aborted fetus from Sweden, produced safe, clean cells that allowed the creation of vaccines against rubella and other common childhood diseases. Two years later, in the midst of a devastating German measles epidemic, his colleague developed the vaccine that would one day wipe out homegrown rubella. The rubella vaccine and others made with those fetal cells have protected more than 150 million people in the United States, the vast majority of them preschoolers. The new cells and the method of making them also led to vaccines that have protected billions of people around the world from polio, rabies, chicken pox, measles, hepatitis A, shingles and adenovirus. Meredith Wadman's masterful account recovers not only the science of this urgent race, but also the political roadblocks that nearly stopped the scientists. She describes the terrible dilemmas of pregnant women exposed to German measles and recounts testing on infants, prisoners, orphans, and the intellectually disabled, which was common in the era. These events take place at the dawn of the battle over

using human fetal tissue in research, during the arrival of big commerce in campus labs, and as huge changes take place in the laws and practices governing who “owns” research cells and the profits made from biological inventions. It is also the story of yet one more unrecognized woman whose cells have been used to save countless lives. With another frightening virus--measles--on the rise today, no medical story could have more human drama, impact, or urgency than *The Vaccine Race*.

**Deadliest Enemy**-Michael T. Osterholm 2020-05-12 A leading epidemiologist shares his "powerful and necessary" (Richard Preston, author of *The Hot Zone*) stories from the front lines of our war on infectious diseases and explains how to prepare for global epidemics -- featuring a new preface on COVID-19. Unlike natural disasters, whose destruction is concentrated in a limited area over a period of days, and illnesses, which have devastating effects but are limited to individuals and their families, infectious disease has the terrifying power to disrupt everyday life on a global scale, overwhelming public and private resources and bringing trade and transportation to a grinding halt. In today's world, it's easier than ever to move people, animals, and materials around the planet, but the same advances that make modern infrastructure so efficient have made epidemics and even pandemics nearly inevitable. And as outbreaks of COVID-19, Ebola, MERS, and Zika have demonstrated, we are woefully underprepared to deal with the fallout. So what can -- and must -- we do in order to protect ourselves from mankind's deadliest enemy? Drawing on the latest medical science, case studies, policy research, and hard-earned epidemiological lessons, *Deadliest Enemy* explores the resources and programs we need to develop if we are to keep ourselves safe from infectious disease. The authors show how we could wake up to a reality in which many antibiotics no longer cure, bioterror is a certainty, and the threat of a disastrous influenza or coronavirus pandemic looms ever larger. Only by understanding the challenges we face can we prevent the unthinkable from becoming the inevitable. *Deadliest Enemy* is high scientific drama, a chronicle of medical mystery and discovery, a reality check, and a practical plan of action.

**The End of October**-Lawrence Wright 2021-04-27 An Instant New York

Times Bestseller From the Pulitzer Prize-winning author of *The Looming Tower*--a riveting thriller and "all-too-convincing chronicle of science, espionage, action and speculation" (*The Wall Street Journal*) At an internment camp in Indonesia, forty-seven people are pronounced dead with acute hemorrhagic fever. When epidemiologist Henry Parsons travels there on behalf of the World Health Organization to investigate, what he finds will have staggering repercussions. Halfway across the globe, the deputy director of U.S. Homeland Security scrambles to mount a response to the rapidly spreading pandemic leapfrogging around the world, which she believes may be the result of an act of biowarfare. And a rogue experimenter in man-made diseases is preparing his own terrifying solution. As already-fraying global relations begin to snap, the virus slashes across the United States, dismantling institutions and decimating the population. With his own wife and children facing diminishing odds of survival, Henry travels from Indonesia to Saudi Arabia to his home base at the CDC in Atlanta, searching for a cure and for the origins of this seemingly unknowable disease. *The End of October* is a one-of-a-kind thriller steeped in real-life political and scientific implications, filled with the insight that has been the hallmark of Wright's acclaimed nonfiction and the full-tilt narrative suspense that only the best fiction can offer.

**Zika: The Emerging Epidemic**-Donald G. McNeil 2016-06-28 A gripping narrative about the origins and spread of the Zika virus by New York Times science reporter Donald G. McNeil Jr. Until recently, Zika—once considered a mild disease—was hardly a cause for global panic. But as early as August 2015, doctors in northeast Brazil began to notice a trend: many mothers who had recently experienced symptoms of the Zika virus were giving birth to babies with microcephaly, a serious disorder characterized by unusually small heads and brain damage. By early 2016, Zika was making headlines as evidence mounted—and eventually confirmed—that microcephaly is caused by the virus, which can be contracted through mosquito bites or sexually transmitted. The first death on American soil, in February 2016, was confirmed in Puerto Rico in April. The first case of microcephaly in Puerto Rico was confirmed on May 13, 2016. The virus has been known to be transmitted by the *Aedes aegypti* or Yellow Fever mosquito, but now *Aedes albopictus*, the Asian Tiger mosquito, has been found to carry it as well, which means it might affect regions as far north as New England and the

Great Lakes. Right now, at least 298 million people in the Americas live in areas “conducive to Zika transmission,” according to a recent study. Over the next year, more than 5 million babies will be born. In *Zika: The Emerging Epidemic*, Donald G. McNeil Jr. sets the facts straight in a fascinating exploration of Zika’s origins, how it’s spreading, the race for a cure, and what we can do to protect ourselves now.

**The Pleasure of Finding Things Out**-Richard P. Feynman 2005-04-06  
This collection from scientist and Nobel Peace Prize winner highlights the achievements of a man whose career reshaped the world's understanding of quantum electrodynamics. *The Pleasure of Finding Things Out* is a magnificent treasury of the best short works of Richard P. Feynman—from interviews and speeches to lectures and printed articles. A sweeping, wide-ranging collection, it presents an intimate and fascinating view of a life in science—a life like no other. From his ruminations on science in our culture to his Nobel Prize acceptance speech, this book will fascinate anyone interested in the world of ideas.

**The Rules of Contagion**-Adam Kucharski 2020-02-13 An Observer Book of the Year A Times Science Book of the Year A New Statesman Book of the Year A Financial Times Science Book of the Year 'It is hard to imagine a more timely book ... much of the modern world will make more sense having read it.' The Times A deadly virus suddenly explodes into the population. A political movement gathers pace, and then quickly vanishes. An idea takes off like wildfire, changing our world forever. We live in a world that's more interconnected than ever before. Our lives are shaped by outbreaks - of disease, of misinformation, even of violence - that appear, spread and fade away with bewildering speed. To understand them, we need to learn the hidden laws that govern them. From 'superspreaders' who might spark a pandemic or bring down a financial system to the social dynamics that make loneliness catch on, *The Rules of Contagion* offers compelling insights into human behaviour and explains how we can get better at predicting what happens next. Along the way, Adam Kucharski explores how innovations spread through friendship networks, what links computer viruses with folk stories - and why the most useful predictions aren't necessarily the ones that come true.

**Corona Crisis**-Mark Hitchcock 2020-05-19 In *Corona Crisis*, professor Mark Hitchcock will share how the current coronavirus outbreak is related to the vivid, end-time biblical prophecies about plagues, pestilence, and pandemics. Pastor and Dallas Theological Seminary professor Mark Hitchcock shares how the current coronavirus outbreak is related to end-time prophecies. Jesus listed “pestilences in various places” as a sign of his coming (Luke 21:11). In the prophecy of the four horsemen of the Apocalypse, the fourth rider kills one-fourth of the earth with pestilence and the “wild beasts of the earth.” Many believe that “wild beasts” refers to plagues that come from animals, as we’ve seen in recent decades with AIDS, SARS, MERS, the bird flu and swine flu, and now COVID-19. Hitchcock believes the coronavirus is not the fulfillment of these events that will occur during the tribulation period but a foreshadowing of what lies ahead. *Corona Crisis* puts the current situation in perspective in relation to previous plagues, like the Spanish flu, while giving an overview of the major signs of the end times. The book also discusses how the rise of globalism contributes to the spread of plagues. In our global environment, 4/22/2020 events can happen suddenly that send shock waves around the world.

**This Is Your Brain on Parasites**-Kathleen McAuliffe 2016-06-07  
“Engrossing ... [An] expedition through the hidden and sometimes horrifying microbial domain.” —Wall Street Journal “Fascinating—and full of the kind of factoids you can't wait to share.” —Scientific American *Parasites* can live only inside another animal and, as Kathleen McAuliffe reveals, these tiny organisms have many evolutionary motives for manipulating the behavior of their hosts. With astonishing precision, parasites can coax rats to approach cats, spiders to transform the patterns of their webs, and fish to draw the attention of birds that then swoop down to feast on them. We humans are hardly immune to their influence. Organisms we pick up from our own pets are strongly suspected of changing our personality traits and contributing to recklessness and impulsivity—even suicide. Germs that cause colds and the flu may alter our behavior even before symptoms become apparent. Parasites influence our species on the cultural level, too. Drawing on a huge body of research, McAuliffe argues that our dread of contamination is an evolved defense against parasites. The horror and

revulsion we are programmed to feel when we come in contact with people who appear diseased or dirty helped pave the way for civilization, but may also be the basis for major divisions in societies that persist to this day. This *Is Your Brain on Parasites* is both a journey into cutting-edge science and a revelatory examination of what it means to be human. "If you've ever doubted the power of microbes to shape society and offer us a grander view of life, read on and find yourself duly impressed." —Heather Havrilesky, Bookforum

**No Time to Lose: A Life in Pursuit of Deadly Viruses**-Peter Piot

2012-05-28 A microbiologist describes his adventure-filled career, discussing his time spent in Central Africa in the 1970s identifying the Ebola virus and his work there again in the 1980s as part of the area's first international AIDS efforts. 20,000 first printing.

**The Hot Zone**-Richard Preston 1995 Imagine a killer with the infectiousness of the common cold and power of the Black Death. Imagine something so deadly that it wipes out 90% of those it touches. Imagine an organism against which there is no defence. But you don't need to imagine. Such a killer exists: it is a virus and its name is Ebola. *The Hot Zone* tells what happens when the unthinkable becomes reality: when a deadly virus, from the rain forests of Africa, crosses continents and infects a monkey house ten miles from the White House. Ebola is that reality. It has the power to decimate the world's population. Try not to panic. It will be back. There is nothing you can do...

**The End of Epidemics**-Dr. Jonathan D. Quick 2018-01-30 A leading doctor offers answers on the one of the most urgent questions of our time: How do we prevent the next global pandemic? The 2014 Ebola epidemic in Liberia terrified the world—and revealed how unprepared we are for the next outbreak of an infectious disease. Somewhere in nature, a killer virus is boiling up in the bloodstream of a bird, bat, monkey, or pig, preparing to jump to a human being. This not-yet-detected germ has the potential to wipe out millions of lives over a matter of weeks or months. That risk makes the

threat posed by ISIS, a ground war, a massive climate event, or even the dropping of a nuclear bomb on a major city pale in comparison. In *The End of Epidemics*, Harvard Medical School faculty member and Chair of the Global Health Council Dr. Jonathan D. Quick examines the eradication of smallpox and devastating effects of influenza, AIDS, SARS, and Ebola. Analyzing local and global efforts to contain these diseases and citing firsthand accounts of failure and success, Dr. Quick proposes a new set of actions which he has coined "The Power of Seven," to end epidemics before they can begin. These actions include: - Spend prudently to prevent disease before an epidemic strikes, rather than spending too little, too late - Ensure prompt, open, and accurate communication between nations and aid agencies, instead of secrecy and territorial disputes - Fight disease and prevent panic with innovation and good science Practical and urgent, *The End of Epidemics* is crucial reading for citizens, health professionals, and policy makers alike.

**The Power of Plagues**-Irwin W. Sherman 2020-07-02 *The Power of Plagues* presents a rogues' gallery of epidemic-causing microorganisms placed in the context of world history. Author Irwin W. Sherman introduces the microbes that caused these epidemics and the people who sought (and still seek) to understand how diseases and epidemics are managed. What makes this book especially fascinating are the many threads that Sherman weaves together as he explains how plagues past and present have shaped the outcome of wars and altered the course of medicine, religion, education, feudalism, and science. Cholera gave birth to the field of epidemiology. The bubonic plague epidemic that began in 1346 led to the formation of universities in cities far from the major centers of learning (and hot spots of the Black Death) at that time. And the Anopheles mosquito and malaria aided General George Washington during the American Revolution. Sadly, when microbes have inflicted death and suffering, people have sometimes responded by invoking discrimination, scapegoating, and quarantine, often unfairly, against races or classes of people presumed to be the cause of the epidemic. Pathogens are not the only stars of this book. Many scientists and physicians who toiled to understand, treat, and prevent these plagues are also featured. Sherman tells engaging tales of the development of vaccines, anesthesia, antiseptics, and antibiotics. This arsenal has dramatically reduced the suffering and death caused by infectious diseases, but these

plague protectors are imperfect, due to their side effects or attenuation and because microbes almost invariably develop resistance to antimicrobial drugs. *The Power of Plagues* provides a sobering reminder that plagues are not a thing of the past. Along with the persistence of tuberculosis, malaria, river blindness, and AIDS, emerging and reemerging epidemics continue to confound global and national public health efforts. West Nile virus, Lyme disease, and Ebola and Zika viruses are just some of the newest rogues to plague humans. The argument that civilization has been shaped to a significant degree by the power of plagues is compelling, and *The Power of Plagues* makes the case in an engaging and informative way that will be satisfying to scientists and non-scientists alike.

**The Hot Zone**-Richard Preston 2012-03-14 The bestselling landmark account of the first emergence of the Ebola virus. Now a mini-series drama starring Julianna Margulies, Topher Grace, Liam Cunningham, James D'Arcy, and Noah Emmerich on National Geographic. A highly infectious, deadly virus from the central African rain forest suddenly appears in the suburbs of Washington, D.C. There is no cure. In a few days 90 percent of its victims are dead. A secret military SWAT team of soldiers and scientists is mobilized to stop the outbreak of this exotic "hot" virus. *The Hot Zone* tells this dramatic story, giving a hair-raising account of the appearance of rare and lethal viruses and their "crashes" into the human race. Shocking, frightening, and impossible to ignore, *The Hot Zone* proves that truth really is scarier than fiction.

**Geography in the News**-Neal G. Lineback 1995 Consists of reprints of the author's newspaper articles, 1988-1995.

**Evolution of Infectious Disease**-Paul W. Ewald 1994-01-06 Findings from the field of evolutionary biology are yielding dramatic insights for health scientists, especially those involved in the fight against infectious diseases. This book is the first in-depth presentation of these insights. In detailing why the pathogens that cause malaria, smallpox, tuberculosis, and AIDS have their special kinds of deadliness, the book shows how efforts to control

virtually all diseases would benefit from a more thorough application of evolutionary principles. When viewed from a Darwinian perspective, a pathogen is not simply a disease-causing agent, it is a self-replicating organism driven by evolutionary pressures to pass on as many copies of itself as possible. In this context, so-called "cultural vectors"--those aspects of human behavior and the human environment that allow spread of disease from immobilized people--become more important than ever. Interventions to control diseases don't simply hinder their spread but can cause pathogens and the diseases they engender to evolve into more benign forms. In fact, the union of health science with evolutionary biology offers an entirely new dimension to policy making, as the possibility of determining the future course of many diseases becomes a reality. By presenting the first detailed explanation of an evolutionary perspective on infectious disease, the author has achieved a genuine milestone in the synthesis of health science, epidemiology, and evolutionary biology. Written in a clear, accessible style, it is intended for a wide readership among professionals in these fields and general readers interested in science and health.

**The Great Influenza**-John M. Barry 2005 An account of the deadly influenza epidemic of 1918, which took the lives of millions of people around the world, examines its causes, its impact on early twentieth-century society, and the lasting implications of the crisis.

**Virus Ground Zero**-Ed Regis 1998-07-01 A collection of germ warfare tales chronicles the history of the CDC and follows its physicians' battles with deadly diseases throughout the world

**Epidemic!**-American Museum of Natural History 2008-06-26 Presents forty short essays on the role of infectious disease in the world covering such topics as evolution, ecology, culture, exposure, infection, outbreaks, epidemics, pandemics, and preventive action.

### **Ebola, Culture and Politics: The Anthropology of an Emerging Disease**

Barry S. Hewlett 2007-11-27 In this case study, readers will embark on an improbable journey through the heart of Africa to discover how indigenous people cope with the rapid-killing Ebola virus. The Hewletts are the first anthropologists ever invited by the World Health Organization to join a medical intervention team and assist in efforts to control an Ebola outbreak. Their account addresses political, structural, psychological, and cultural factors, along with conventional intervention protocols as problematic to achieving medical objectives. They find obvious historical and cultural answers to otherwise-puzzling questions about why village people often flee, refuse to cooperate, and sometimes physically attack members of intervention teams. Perhaps surprisingly, readers will discover how some cultural practices of local people are helpful and should be incorporated into control procedures. The authors shed new light on a continuing debate about the motivation for human behavior by showing how local responses to epidemics are rooted both in culture and in human nature. Well-supported recommendations emerge from a comparative analysis of Central African cases and pandemics worldwide to suggest how the United States and other countries might use anthropologists and the insights of anthropologists to mount more effective public health campaigns, with particular attention to avian flu and bioterrorism. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

### **Health Care Politics, Policy and Services**

Gunnar Almgren, MSW, PhD 2012-10-25 This new edition of the AJN Award-winning textbook analyzes the most current health care reforms and their effect on our health system from a social justice perspective. It addresses the reforms of the landmark health care reform bill passed in March, 2010, and provides students of health care policy with a framework within which they can understand and evaluate our health system. The text provides a comprehensive description and analysis of the historical evolution and organization of our health care system that is framed by a forthright social justice critique. In addition to extensive coverage of our health care system structures, finances, and performance on a variety of population health indicators, the text analyzes disparities in access to health and health care in America-by race, ethnicity,

class, age, gender, and geography. Issues of special focus include long-term care policy, the bioethical dimensions of health care policy, the transformation of health to an economic commodity, the politics of health care policymaking, and the global context of health care disparities. New to the Second Edition: Contains numerous chapters that have been extensively revised or completely rewritten Explains the political goals of and barriers to each stage of the Patient Protection and Affordable Care Act's (PPACA) implementation plan Provides two distinct critiques of the PPACA Offers a social and political health care agenda based on a social justice perspective Features a teaching guide

### **Molecular Virology of Human Pathogenic Viruses**

Wang-Shick Ryu 2016-03-30 Molecular Virology of Human Pathogenic Viruses presents robust coverage of the key principles of molecular virology while emphasizing virus family structure and providing key context points for topical advances in the field. The book is organized in a logical manner to aid in student discoverability and comprehension and is based on the author's more than 20 years of teaching experience. Each chapter will describe the viral life cycle covering the order of classification, virion and genome structure, viral proteins, life cycle, and the effect on host and an emphasis on virus-host interaction is conveyed throughout the text. Molecular Virology of Human Pathogenic Viruses provides essential information for students and professionals in virology, molecular biology, microbiology, infectious disease, and immunology and contains outstanding features such as study questions and recommended journal articles with perspectives at the end of each chapter to assist students with scientific inquiries and in reading primary literature. Presents viruses within their family structure Contains recommended journal articles with perspectives to put primary literature in context Includes integrated recommended reading references within each chapter Provides access to online ancillary package inclusive of annotated PowerPoint images, instructor's manual, study guide, and test bank

### **Ebola: The Natural and Human History of a Deadly Virus**

David Quammen 2014-10-20 "A frightening and fascinating masterpiece of science reporting that reads like a detective story." —Walter Isaacson In 1976 a

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deadly virus emerged from the Congo forest. As swiftly as it came, it disappeared, leaving no trace. Over the four decades since, Ebola has emerged sporadically, each time to devastating effect. It can kill up to 90 percent of its victims. In between these outbreaks, it is untraceable, hiding deep in the jungle. The search is on to find Ebola's elusive host animal. And until we find it, Ebola will continue to strike. Acclaimed science writer and explorer David Quammen first came near the virus while he was traveling in the jungles of Gabon, accompanied by local men whose village had been devastated by a recent outbreak. Here he tells the story of Ebola—its past, present, and its unknowable future. Extracted from *Spillover* by David Quammen, updated and with additional material.

**The AIDS Pandemic**-Michael Merson 2017-09-13 This ambitious book provides a comprehensive history of the World Health Organization (WHO) Global Programme on AIDS (GPA), using it as a unique lens to trace the global response to the AIDS pandemic. The authors describe how WHO came initially to assume leadership of the global response, relate the strategies and approaches WHO employed over the years, and expound on the factors that led to the Programme's demise and subsequent formation of the Joint United Nations Programme on HIV/AIDS (UNAIDS). The authors examine the global impact of this momentous transition, portray the current status of the global response to AIDS, and explore the precarious situation that WHO finds itself in today as a lead United Nations agency in global health. Several aspects of the global response - the strategies adopted, the roads taken and not taken, and the lessons learned - can provide helpful guidance to the global health community as it continues tackling the AIDS pandemic and confronts future global pandemics. Included in the coverage: The response before the global response Building and coordinating a multi-sectoral response Containing the global spread of HIV Addressing stigma, discrimination, and human rights Rethinking global AIDS governance UNAIDS and its place in the global response *The AIDS Pandemic: Searching for a Global Response* recounts the global response to the AIDS pandemic from its inception to today. Policymakers, students, faculty, journalists,

researchers, and health professionals interested in HIV/AIDS, global health, global pandemics, and the history of medicine will find it highly compelling and consequential. It will also interest those involved in global affairs, global governance, international relations, and international development.

**The Viral Storm**-Nathan Wolfe 2011-10-11 A Stanford biologist reveals the lesser-known origins of some of the world's most deadly viruses while explaining the link between modern life and global pandemic threats, recounting his research missions in various world regions while sharing insights into how developing technologies may counter potential threats. 75,000 first printing.

**Disease Emergence and Resurgence**-Milton Friend 2006

**Microbial Evolution and Co-Adaptation**-Institute of Medicine 2009-05-10 Dr. Joshua Lederberg - scientist, Nobel laureate, visionary thinker, and friend of the Forum on Microbial Threats - died on February 2, 2008. It was in his honor that the Institute of Medicine's Forum on Microbial Threats convened a public workshop on May 20-21, 2008, to examine Dr. Lederberg's scientific and policy contributions to the marketplace of ideas in the life sciences, medicine, and public policy. The resulting workshop summary, *Microbial Evolution and Co-Adaptation*, demonstrates the extent to which conceptual and technological developments have, within a few short years, advanced our collective understanding of the microbiome, microbial genetics, microbial communities, and microbe-host-environment interactions.