# Dengue

Adnan I. Qureshi,Omar Saeed

Dengue and Dengue Hemorrhagic Fever, 2nd Edition Duane J. Gubler, Eng Eong Ooi, Subhash Vasudevan, Jeremy Farrar, 2014-08-29 Continued geographic expansion of dengue viruses and their mosquito vectors has seen the magnitude and frequency of epidemic dengue/dengue hemorrhagic fever (DF/DHF) increase dramatically. Recent exciting research on dengue has resulted in major advances in our understanding of all aspects of the biology of these viruses, and this updated second edition brings together leading research and clinical scientists to review dengue virus biology, epidemiology, entomology, therapeutics, vaccinology and clinical management.

Dengue World Health Organization,2009 This publication is intended to contribute to prevention and control of the morbidity and mortality associated with dengue and to serve as an authoritative reference source for health workers and researchers. These guidelines are not intended to replace national guidelines but to assist in the development of national or regional guidelines. They are expected to remain valid for five years (until 2014), although developments in research could change their validity.--Publisher's description.

Dengue and Dengue Hemorrhagic Fever in the Americas Pan American Sanitary Bureau, 1994 Dengue and its potentially fatal forms, dengue henorrhagic fever and dengue shock syndrome, once more threaten much of the Americas. In the 1980s the vector control programmes fell victim to the cutbacks in public health expenditure and their responses to dengue outbreaks tended to be a little too late. These guidelines have risen to the challenge by incorporating all aspects of the prevention and control of the disease and its vectors. In addition, because dengue is primarily a problem of domestic sanitation and households can combat the problem inexpensively. The guidelines enmphasize ways to transfer responsibility for dengue control and prevention to the community.

Dengue Fever Jorge Abelardo Falcón-Lezama, Miguel Betancourt-Cravioto, Roberto Tapia-Conyer, 2019-01-30 For over 70 years, dengue fever has challenged health systems in every region of the World. It has evolved from a benign febrile illness from the tropics to a major concern in urban settlements, overwhelming health infrastructure with large outbreaks, as it continues to teach us important lessons with its complexities. This book intends to review the latest updates on dengue fever, the tools available for its study and control, and promising technologies currently in the pipeline. With this work, the editors wish to provide students with an updated reference text on the basics of this disease as well as researchers and academics, with a useful document to understand the current outlook and the perspectives for the future.

Dengue Fever and Other Hemorrhagic Viruses Tirtha Chakraborty, I. Edward Alcamo, 2008 Dengue fever is an infectious disease found around the world that is caused by four closely related, but distinct, types of viruses commonly transmitted by Aedes aegypti mosquitoes. Triggering excessive bleeding, dengue fever, dengue hemorrhagic fever, and dengue hemorrhagic shock can be fatal. Dengue Fever and Other Hemorrhagic Viruses explores the biology of the dengue virus and similar viruses such as Ebola, Marburg virus, and Lassa fever, as well as their symptoms, where they are commonly found, how they are transmitted, and the efforts to treat and eradicate them. Chapters include: Ins and Outs of Dengue; Hemorrhagic Fevers; Vectors - Bugs That Carry Disease; The Immune System: Our Line of Defense; and, Vaccination - Waking Up the Army in Us.

Dengue Virus Alan L. Rothman,2009-10-03 Scientific research on dengue has a long and rich history. The literature has been touched by famous names in medicine- Benjamin Rush, Walter Reed, and Albert Sabin, to name a very few- and has been fertile ground for medical historians. The advances made in those early investigations are all the more remarkable for the limited tools available at the time. The demonstration of a viral etiology for dengue fever, the recognition of mosquitoes as the vector for transmission to humans, and the existence of multiple viral variants (serotypes) with only partial cross-protection were all accomplished prior to the ability to culture and characterize the etiologic agent. Research on dengue in this period was typically driven by circumstances. Epidemics of dengue created public health crises, although these were relatively short-lived in any one location, as the population of susceptible individuals quickly shrank. Military considerations became as a major driving force for research. With the introduction of large numbers of non-immune individuals into endemic areas, dengue could cripple military readiness, taking more soldiers out of action than hostile fire. Dengue and dengue hemorrhagic fever, which assumed pandemic proportions during the latter half of the last century, have shown no indication of slowing their growth during this first decade of the twenty-first century. Challenges remain in understanding the basic mechanisms of viral replication and disease pathogenesis, in clinical management of patients, and in control of dengue viral transmission. Nevertheless, new tools and insights have led to major recent scientific advances. As the first candidate vaccines enter large-scale efficacy trials, there is reason to hope that we may soon turn the corner on this disease.

Dengue Virus Disease Adnan I. Qureshi,Omar Saeed,2019-11-23 Dengue Virus Disease: From Origin to Outbreak provides a detailed accounting of one of the world's fastest growing infections. According to the World Health Organization, Dengue virus incidence has increased 30-fold over the past 50 years, with up to 50 to 100 million infections occurring annually in over 100 endemic countries. This estimate puts nearly half the world's population at risk. This book reviews the history, clinical and diagnostic aspects of dengue virus, also presenting our current knowledge on the pathophysiology of severe dengue and addressing the importance of dengue virus infections in those traveling to parts of the world where it is endemic. Covers every important aspect of Dengue virus disease, from biological, to its social and economic impacts Highlights the unique aspects of Dengue virus infection and the evolving nature of our understanding of the virus Provides a complete description of Dengue virus disease, with details on more recent outbreaks, clinical features, first hand experiences, treatment modalities, and recent novel treatment regimens Gives insights into the detailed psychological impact the disease has caused in outbreak regions

Expanded Dengue Syndrome Tauqueer Hussain Mallhi, Yusra Habib Khan, Azreen Syazril Adnan, Nida Tanveer, Raja Ahsan Aftab, 2020-11-20 The book discusses all aspects of expanded dengue syndrome (EDS), an emerging entity of dengue infection, and serves as definitive source of information for health care professionals. With each chapter focusing on a different type of EDS, the book covers the definition, concept, prevalence, pathophysiology, management, complications and outcomes of the condition. It also highlights the impact of the disease on healthcare. Further, based on both basic and the latest, cutting-edge research, it examines treatments, algorithms, standard treatment guidelines and the pharmacotherapy of EDS. EDS is referred to as atypical/unusual manifestations of the dengue infections, also termed as isolated organopathies, including hepatic, renal, cardiac, respiratory and neurological involvements that could be explained as a result of severe, profound shock or associated with underlying host conditions or co-infections. Raising awareness of this neglected and little-known complication of dengue infection, the book serves as an educational and teaching aid and useful resource for upper-undergraduate students. It also provides up-to-date reference material for researchers in academia and corporations as well as for clinicians wanting to improve the management of EDS during dengue outbreaks.

 the group B togaviruses. Along with other members of that group as well as group A, the dengue viruses have been investigated intensively during recent years. Certain unique aspects of their structure, composition, antigenicity, replication, and antigenic relationships have established the togavirus family as quite distinct from other families of enveloped RNA viruses (see recent review of PFEFFERKORN and SHAPIRO, 1974). The basic studies leading to this conclusion have coincided with epidemiological field investigations which have resulted in a continuing increase in the number of viruses now designated as group A or B togaviruses. This, in turn, has led to a growing appreciation of their immense importance as actual or potential pathogens of man and beast.

Dengue Fever in a One Health Perspective ,2023-05-03

Dengue and Dengue Hemorrhagic Fever, 1986

Dengue: Prevention, Diagnosis and Treatment Marcel Soto,2021-11-16 Dengue fever is a tropical disease that is caused by the dengue virus. It is spread by various species of female Aedes type mosquitoes. The symptoms of dengue appear after three to fourteen days of infection. The most common symptoms include headache, fever, vomiting, muscle and joint pains and skin rashes. It can be life-threatening in some cases. It can also affect other body systems. A few of the neurological disorders can also occur in dengue such as transverse myelitis and Guillain-barre syndrome. It can cause miscarriage, low birth rate and premature birth in a pregnant woman. Dengue can develop into dengue hemorrhagic fever that causes bleeding, low levels of blood platelets and blood plasma leakage. The diagnosis of dengue is based on physical examination and symptoms. The book presents researches and studies performed by experts across the globe. It contains some path-breaking studies about dengue. It will serve as a valuable source of reference for graduate and post graduate students.

**Dengue Fever** Petra Miller,2015-07-15 Dengue fever ranks behind only malaria among diseases spread by insects as a threat to humans. The fight to eliminate the mosquitos that carry the disease has been slowed by environmental concerns and by political indifference. So, it is an emerging disease that is threatening larger sections of the world so growing population, including parts of the United States. There is a timeline of the history of the disease and of efforts to eradicate it, and sidebars on the life cycle of a mosquito and ways climate change is aiding the spread of the disease.

Dealing with Dengue: Diagnosing, Treating, and Recovering from Dengue Fever Godfree Roberts Ed.D.,2014-09-25 In 114 pages 'Dealing with Dengue' covers every aspect of Dengue Fever. Here are the chapter titles: 1. What not to Do... 2. What is Dengue? 3. Diagnosing Dengue 5. Folk Remedies 6. Children & Dengue 7. Pregnancy & Dengue 8. Severe Dengue 9. Painkillers & Your Liver 10. Recovery & TCM 11. Doctors & Drugs 12. Immunity 13. Lab Tests 14. Somebody Stop Me! 15. Call Me Aedes 16. 99% Prevention 17. Insecticides & Repellents 18. Traps, Nets, Coils & More 19. Case Studies 20. Transmission 21. Vaccines, Bacteria & GMOs 22. Regular Mosquito Bites 23. Your Community 24. Blogs, Links, Downloads 25. Myths & Rumors 26. Videos 27. Dengue for MDs See what I mean? It's everything you need to know about Dengue.

Dengue: Global Status Gideon Informatics, Inc.,Dr. Stephen Berger,GIDEON science team,2023-06-22

New Treatment Strategies for Dengue and Other Flaviviral Diseases Gregory R. Bock, Jamie A. Goode, 2006-10-02 Dengue virus is a member of the Flaviviridae family, which includes viruses associated with human diseases such as yellow fever, Japanese encephalitis and hepatitis C. Dengue fever is transmitted by mosquitoes, principally Aedes aegypti. There are four serotypes of dengue virus, of which DENV-2 has been the most prevalent in many recent epidemics. Following primary infection, lifelong immunity develops, preventing repeated assault by the same serotype. However, the non-neutralizing antibodies from a previous infection or maternally acquired antibodies are thought to form complexes with a different serotype during a subsequent infection and cause dengue haemorrhagic fever/dengue shock syndrome, which can be fatal. There is no treatment or vaccine available today that can combat this emerging and uncontrolled disease. This book features contributions from the world's leading researchers working on dengue and related flaviviruses who examine the current state of the art in the molecular biology of the dengue virus. Particular emphasis is placed on the structure and function of the virus and the targeting of virus proteins by potential antiviral agents. The pathogenesis of dengue and dengue haemorrhagic fever are discussed in detail, especially the target cells and the specific receptors on these cells, thereby developing a clear overview of host and viral factors that contribute to dengue haemorrhagic fever. Finally, the book reviews the therapeutic options, paying particular attention to ways in which vector, host and environment can play a critical role in the spread of this disease. With dengue fever and other emerging viral diseases becoming increasingly prevalent around the world, this book provides valuable insight into the virus that causes this disease and potential ways to manage it. It is essential reading for all those working in tropical diseases, public health and virology. Praise from the rev

Bibliography on Dengue and Yellow Fevers United States. Army. Chemical Corps. Technical Library, 1956

CDC Yellow Book 2018: Health Information for International Travel Centers for Disease Control and Prevention CDC,2017-04-17 THE ESSENTIAL WORK IN TRAVEL MEDICINE -- NOW COMPLETELY UPDATED FOR 2018 As unprecedented numbers of travelers cross international borders each day, the need for up-to-date, practical information about the health challenges posed by travel has never been greater. For both international travelers and the health professionals who care for them, the CDC Yellow Book 2018: Health Information for International Travel is the definitive guide to staying safe and healthy anywhere in the world. The fully revised and updated 2018 edition codifies the U.S. government's most current health guidelines and information for international travelers, including pretravel vaccine recommendations, destination-specific health advice, and easy-to-reference maps, tables, and charts. The 2018 Yellow Book also addresses the needs of specific types of travelers, with dedicated sections on: Precautions for pregnant travelers, immunocompromised travelers, and travelers with disabilities Special considerations for newly arrived adoptees, immigrants, and refugees Practical tips for last-minute or resource-limited travelers Advice for air crews, humanitarian workers, missionaries, and others who provide care and support overseas Authored by a team of the world's most esteemed travel medicine experts, the Yellow Book is an essential resource for travelers -- and the clinicians overseeing their care -- at home and abroad.

Dengue Virus Basak Ganim, Adam Reis, 2010 Dengue is an endemic viral disease affecting human population in tropical and subtropical regions around the world, predominantly in urban and semi-urban areas. Dengue fever (DF) and its more serious forms, the dengue haemorrhagic fever (DHF) and dengue shock syndrome (DSS) are becoming important public health problems. The global prevalence of dengue has grown dramatically in recent decades. An estimated 2.5 billion people in more than 100 countries are at risk of acquiring dengue viral infection with more than 50 million new infections being projected annually, between 20,000 and 25,000 deaths, mainly in children. This book aims to review the possible molecular mechanisms that attribute to the variation of Dengue virus (DENV) disease. Additionally, a description of the animal models that have been developed to study DENV pathogenesis and to test potential vaccines and therapeutics are reviewed. This book also reviews the current understanding of DENV pathogenesis and the challenges confronting vaccine and therapeutic developers. Other chapters in this book examine the responses of target cells, including dendritic cells in people infected with DENV, recent developments in the molecular diagnosis for dengue virus, the mathematical models on dengue transmission and control, and a discussion of the ways in which to prevent and control dengue outbreaks.

Rapid Diagnosis of Dengue Outbreaks in Resource Limited Facilities Inam Danish Khan, 2017 Dengue is a tropical, mosquito borne flavivirus infection and a leading public health problem in India. Four serotypes DEN1-4 cause high morbidity and mortality. Dengue is a spherical, lipid enveloped, positive stranded

RNA virus having a 10200 Kb RNA genome coding for three structural (capsid C, premembrane PrM, and envelope E) and seven nonstructural proteins. Early, sensitive and specific diagnosis is paramount for patient management, prevention of complications, etiologic investigation and disease control. Early diagnosis is achieved by NS1 antigen detection, nucleic acid amplification and virus isolation. Diagnosis after five days is conferred by IgM/IgG based serological techniques such as ELISA, hemagglutination inhibition, complement fixation and neutralization test. The aim of this study is to compare serological and nucleic acid based methods for early diagnosis of dengue and differentiation of serotypes. For this, Dengue was diagnosed using NS1 antigen, IgM/IgG LF-ICT, IgM  $\mu$  capture ELISA, RT-PCR and tests were compared. M-PCR was done to identify serotypes.

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