

FULL PAPER

The recent development of dengue vaccine: a review

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Dengue fever, caused by the dengue virus, is a significant global health concern, with millions of cases reported annually. The absence of specific antiviral treatments or effective preventive measures has fuelled the urgent need for a dengue vaccine. This provides a comprehensive review of the development of a dengue vaccine, summarizing the major milestones, challenges encountered, and recent advancements in this field. This study explores various vaccine strategies employed, including live attenuated vaccines, inactivated vaccines, recombinant subunit vaccines, and viral vector-based vaccines. In addition, the manuscript discusses the clinical trials conducted to evaluate the safety and efficacy of these vaccine candidates.

KEYWORDS

Dengue; dengue virus; medicine; vaccine

Introduction

The history of dengue fever, a vector-borne disease caused by the dengue virus and transmitted to human through the bite of infected *Aedes* mosquitoes, is marked by global epidemic outbreaks and substantial

morbidity and mortality rates in tropical and subtropical regions [1-5]. According to the World Health Organization (WHO), there are approximately 390 million dengue infections worldwide each year; this may trigger the development of a vaccine to prevent the spread of virus infection [6]. The development

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Development Of Dengue Vaccine World Health:

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Introduction to Global Health Kathryn H. Jacobsen, 2022-10-10 Introduction to Global Health provides a comprehensive examination of the key global health issues today and unlike other global health texts on the market aligns with key global health frameworks such as the Sustainable Development Goals SDGs and in this fourth edition the newly approved CUGH learning objectives IAP Textbook of Vaccines Vipin M Vashishtha, Ajay Kalra, 2020-03-31 Section 1 General Aspects of Vaccination Section 2 Licensed Vaccines Section 3 Vaccines in Development and New Vaccine Strategies and Vaccines in the Pipeline Section 4 Vaccination of Special Groups Section 5 Vaccine Policies Trials and Regulatory Issues

Vaccines E-Book Stanley A. Plotkin, Walter Orenstein, Paul A. Offit, 2012-09-22 Apply the latest vaccination knowledge with a reference that Bill Gates calls an indispensable guide to the enhancement of the well being of our world Inside Vaccines you ll find comprehensive and current coverage of every aspect of vaccination from the development of each vaccine to its use in reducing disease This medical reference book offers the expert information you need to apply the very latest techniques and information in your practice Consult this title on your favorite e reader conduct rapid searches and adjust font sizes for optimal readability Gain a complete understanding of each disease including clinical characteristics microbiology pathogenesis diagnosis and treatment as well as epidemiology and public health and regulatory issues Update your knowledge of both existing vaccines and vaccines currently in the research and development stage Get complete answers on each vaccine including its stability immunogenicity efficacy duration of immunity adverse events indications contraindications precautions administration with other vaccines and disease control strategies Analyze the cost benefit and cost effectiveness of different vaccine options Clearly visualize concepts and objective data through an abundance of tables

and figures Make optimal use of the latest vaccines for pneumococcal disease rotavirus human papillomavirus herpes zoster meningococcal disease and much more Stay at the forefront of new developments with completely updated chapters on malaria and HIV vaccines a new chapter on vaccine regulations across the world and many other revisions throughout

New Generation Vaccines Myron M. Levine, Gordon Dougan, Michael F. Good, Gary J. Nabel, James P. Nataro, Rino Rappuoli, 2016-04-19 Highlighting the latest activities and initiatives of prominent organizations working in the vaccine industry such as the Bill and Melinda Gates Foundation The Global Alliance for Vaccines and Immunization WHO UNICEF the World Bank New Generation Vaccines Fourth Edition details steps developing countries have taken toward research development manufacture and regulation of several new vaccines for widespread use This text will cover the current state of the art techniques in vaccine development including the successes and the failures trace vaccine development from the bench to public health with regard to both FDA and European Union regulations investigate improved methods for immunizing large populations and the use of needles vaccinations discuss the advancements in the heavily government funded areas for developing vaccines against potential bioterror and infectious disease agents as well as the immunization of large population bases for diseases like Anthrax Smallpox Ebola West Nile SARS and others Updated throughout with new cutting edge information on recent breakthroughs and developments NEW TO GENERATION VACCINES FOURTH EDITION highlights the latest activities of prominent organizations in the vaccine industry covers the current techniques in vaccine development investigates improved methods for immunizing large populations

Neglected Tropical Diseases - Latin America and the Caribbean Carlos Franco-Paredes, José Ignacio Santos-Preciado, 2015-05-08 This book addresses the major neglected tropical diseases NTDs based on their prevalence and the years of healthy life lost to disability in Latin American and Caribbean countries These include Chagas disease leishmaniasis hookworm infection and other soil transmitted helminth infections followed by dengue schistosomiasis leishmaniasis leprosy cysticercosis bartonellosis Plasmodium vivax malaria and onchocerciasis Topics like disease burden major manifestations and approaches to the control and elimination of NTDs in Latin America and the Caribbean are discussed in detail As such the book will be of general interest to basic researchers and clinicians engaged in infectious disease tropical medicine and parasitology and a must have for scientists specialized in the characteristics of this region of the world

Annual Report Rockefeller Foundation, 2003 *World Health Report 1995* World Health Organization, 1995 The World Health Report 1995 is the first in a planned annual series whose purpose is to provide a diagnosis of the state of human health worldwide Subtitled bridging the gap the 1995 issue highlights the inequities in health and health care and the need for a more even and just distribution of the existing knowledge and technology to prevent and control disease The Organization's contributions to world health are explained and future priorities identified Ensuring value for money and reducing poverty are regarded as imperative A comprehensive annex of statistical data is provided

Pediatric Vaccines and Vaccinations Timo Vesikari, Pierre Van Damme, 2017-11-01 This

graduate textbook serves as a highly readable guide on vaccines and vaccination in infants children and adolescents from an European perspective The first part of the book is dedicated to childhood and adolescent vaccine schedules maternal and neonatal immunization and safety of vaccines In a second part we focus on viral and bacterial vaccines Further chapters discuss pediatric travel vaccines vaccines in the pipeline and the European registration process This book is intended to be a reference textbook and will help to standardize the information on vaccines and immunization program in the WHO European Region

Collaboration in Health Development in South-East Asia, 1948-1988, 1992 *Bulletin of the World Health Organization* World Health Organization, 2011 Krugman's Infectious Diseases of Children Saul Krugman, 2004 This classic text delivers comprehensive yet concise coverage of childhood exanthems and other infections offering practical options for their management and treatment Thoroughly cross referenced chapters and a wealth of helpful tables diagrams charts photographs and color plates speed readers to a diagnosis Chapters cover history management and treatment of the major infections affecting children worldwide including emerging and re emerging diseases in developing countries such as malaria and dengue Reflects the most recent developments in the field with New chapters on fungal infections eye infections cholera dengue and dengue hemorrhagic fever malaria and helminthic infections An updated smallpox vaccinia chapter with information on bioterrorism and the initiation of smallpox vaccination programs An expanded discussion of pseudomonas infections in the cystic fibrosis chapter Discussions of the newer hepatitis viruses

Problems of relevant infectious diseases Rudolf Rott, 1999 **The Journal of Infectious Diseases**, 1994-10 **Public Health Reports**, 1993 **Technical Report Series**, 2005 World Health Statistics Quarterly World Health Organization, 1995 **Zinsser Microbiology** Hans Zinsser, 1992 Describes pathogenic infectious agents and the diseases they cause Also discusses basic principles of bacterial physiology and genetics of molecular and cellular immunology and of molecular virology **Human Health, Diseases, and the Environment** A. K. M. Kafiluddin, 2005 **Tropical Disease Research**, 2003

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Development Of Dengue Vaccine World Health Introduction

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