

FULL PAPER

The recent development of dengue vaccine: a review

Rahadian Zainul^{1,2,3,*} | Arif Nur Muhammad Ansori^{1,4,5,6} | Ahmad Affan Ali Murtadlo^{4,5,6} | Teguh Hari Sucipto⁷ | Viol Dhea Kharisma^{4,5,6} | Muhammad Hermawan Widyandanda^{4,6} | Bayyinatul Muchtaromah^{4,6} | Amaq Fadholly^{1,2,3} | Muhammad Khalilim Jati Kusala^{4,5,6} | Vikash Jakhmola⁸ | Maksim Rebezov^{9,10} | Sukma Sahadewa¹¹ | Putu Angga Wiradana¹²

¹Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Negeri Padang, Padang, Indonesia

²Center for Advanced Material Processing, Artificial Intelligence, and Biophysics Informatics (CAMPBIOINICS), Universitas Negeri Padang, Padang, Indonesia

³Postgraduate School, Universitas Airlangga, Surabaya, Indonesia

⁴Gemerasi Biologi Indonesia Foundation, Gresik, Indonesia

⁵Uttarakhand Institute of Pharmaceutical Sciences, Uttarakhand University, Dehradun, India

⁶European Virus Bioinformatics Center, Jena, Germany

⁷Division of Research and Development, Jalan Tengah, Pasuruan, Indonesia

⁸Department of Biology, Faculty of Science and Technology, Universitas Airlangga, Surabaya, Indonesia

⁹Dengue Study Group, Institute of Tropical Disease, Universitas Airlangga, Surabaya, Indonesia

¹⁰Department of Biology, Faculty of Mathematics and Natural Sciences, Universitas Brawijaya, Malang, Indonesia

¹¹Master Program of Biology, Universitas Islam Negeri Maulana Malik Ibrahim, Malang, Indonesia

¹²School of Veterinary Medicine and Biomedical Sciences, IPB University, Bogor, Indonesia

¹³Research Center for Veterinary Sciences, National Research and Innovation Agency, Bogor, Indonesia

¹⁴Department of Scientific Research, Ural State Agrarian University, Yekaterinburg, Russian Federation

¹⁵Department of Scientific Research, V. M. Gorbachev Federal Research Center for Food Systems, Moscow, Russian Federation

¹⁶Faculty of Medicine, Universitas Wijaya Kusuma Surabaya, Surabaya, Indonesia

¹⁷Research Group of Biological Health, Study Program of Biology, Faculty of Health and Science, Universitas Dharma Para, Bali, Indonesia

*Corresponding Author:

Rahadian Zainul

Email: rahadianzmsiphd@fmipa.unp.ac.id

Tel: +62 812-6138-53

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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Viral Hemorrhagic Fevers—Advances in Research and Treatment: 2012 Edition, 2012-12-26 Viral Hemorrhagic Fevers Advances in Research and Treatment 2012 Edition is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about Viral Hemorrhagic Fevers in a concise format The editors have built Viral Hemorrhagic Fevers Advances in Research and Treatment 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Viral Hemorrhagic Fevers in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Viral Hemorrhagic Fevers Advances in Research and Treatment 2012 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

Vaccines and World Health Paul Frederick Basch, 1994 This timely work deals with the application of biotechnologic innovations to improve health throughout the world The text focuses on the role of vaccines existing and proposed in preventing and controlling diseases in the poorer countries It clarifies the interrelations of science technology economics epidemiology and other disciplines needed to take a vaccine from concept to reality The particular concerns of each participating group are discussed with ways to minimize risks and hazards This book is essential reading for laboratory investigators primarily in the industrialized world who generate the products of biotechnology administrators of public health programs in developing countries and the evaluators managers production specialists and others who make the product from the bench to the bush Students of

medicine immunology public health public policy development studies and related fields will find this book invaluable

Introduction to Global Health Kathryn H. Jacobsen, 2022-10-10 Introduction to Global Health is a comprehensive look at today's most critical global health concerns and the actions that people around the world are taking to solve public health problems and to promote health and wellbeing The Fourth Edition of Introduction to Global Health maintains the clarity and ease of use of the prior edition while featuring a greater emphasis on the specific interventions that are being implemented to promote longer healthier lives worldwide and prevent disease disability and early death in countries of all income levels Every chapter balances material about pandemics climate change and other emerging threats to global public health with evidence of how global health interventions are enabling progress toward achieving health equity

Hunter's Tropical Medicine and Emerging Infectious Diseases E-Book Edward T Ryan, David R Hill, Tom Solomon, Naomi Aronson, Timothy P Endy, 2019-03-25 New emerging diseases new diagnostic modalities for resource poor settings new vaccine schedules all significant recent developments in the fast changing field of tropical medicine Hunter's Tropical Medicine and Emerging Infectious Diseases 10th Edition keeps you up to date with everything from infectious diseases and environmental issues through poisoning and toxicology animal injuries and nutritional and micronutrient deficiencies that result from traveling to tropical or subtropical regions This comprehensive resource provides authoritative clinical guidance useful statistics and chapters covering organs skills and services as well as traditional pathogen based content You'll get a full understanding of how to recognize and treat these unique health issues no matter how widespread or difficult to control Includes important updates on malaria leishmaniasis tuberculosis and HIV as well as coverage of Ebola Zika virus Chikungunya and other emerging pathogens Provides new vaccine schedules and information on implementation Features five all new chapters Neglected Tropical Diseases Public Health Control Programs and Mass Drug Administration Health System and Health Care Delivery Zika Medical Entomology and Vector Control as well as 250 new images throughout Presents the common characteristics and methods of transmission for each tropical disease as well as the applicable diagnosis treatment control and disease prevention techniques Contains skills based chapters such as dentistry neonatal pediatrics and ICMI and surgery in the tropics and service based chapters such as transfusion in resource poor settings microbiology and imaging Discusses maladies such as delusional parasitosis that are often seen in returning travelers including those making international adoptions transplant patients medical tourists and more Enhanced eBook version included with purchase which allows you to access all of the text figures and references from the book on a variety of devices

Recent Advances in Precision Vaccine Discovery & Development Ofer Levy, Simon Daniel Van Haren, Scott James Tebbutt, Francesco Borriello, Jay Evans, 2021-11-23 Topic Editor Jay Evans is the co founder President and CEO of Inimmune Corporation The other Topic Editors declare no competing interests with regard to the Research Topic subject

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 *Water and Health* Prati Pal Singh,Vinod Sharma,2013-10-01 Water and Health strengthens the dynamic relationship between human health and water The book has the potential to ignite our minds about several water related diseases due to biological and chemical contamination and to their high end solutions The contents are original comprehensive and highly informative and gradually take the reader around the component most important to his or her quality life and not just existence The book is set in social scientific and economic dimensions and is a must read for all those who cherish and celebrate human life and dignity , **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 *Travelers' Vaccines* Jane N. Zuckerman,Elaine C. Jong,2010 Rev ed of Travelers vaccines Elaine C Jong Jane N Zuckerman 2004 *Public Health and Infectious Diseases* Jeffrey Griffiths,James H. Maguire,Kristian Heggenhougen,Stella R. Quah,2010-03-09 Emerging infectious diseases may be defined as diseases being caused by pathogens only recently recognized to exist This group of diseases is important globally and the experience of the last 30 years suggests that new emerging diseases are likely to bedevil us As the global climate changes so changes the environment which can support not only the pathogens but also their vectors of transmission This expands the exposure and effects of infectious disease and therefore the importance of widespread understanding of the relationship between public health and infectious disease Public Health and Infectious Diseases brings together chapters that explain reasons for the emergence of these infectious diseases These include the ecological context of human interactions with other humans with animals that may host human pathogens and with a changing agricultural and industrial environment

increasing resistance to antimicrobials the ubiquity of global travel and international commerce Features the latest discoveries related to influenza with a newly published article by Davidson Hamer and Jean van Seventer Provides a listing of rare diseases that have become resurgent or spread their geographic distribution and are re emergent Highlights dengue and malaria as well as agents such as West Nile and other arboviruses that have spread to new continents causing widespread concerns Includes discussions of climate influencing the spread of infectious disease and political and societal aspects

Global Infectious Diseases David H. Walker,2013-04-17 Introducing a book on global infectious diseases is a daunting challenge Modern developments in molecular research newly available opportuni ties for earth orbiting satellite based surveillance as a means of predicting certain regional epidemics and the introduction of remarkable new anti biotics which can cure some awesome problems such as river blindness would each have astonished even the most jaded reader only a few decades ago Just the same even with these laudable advances malaria is still with us and both poliomyelitis and tuberculosis are growing worldwide problems As a holdover from my own medical school days I must confess to an affection for the older term of tropical medicine and its historic context in preference to the more popular present name which is the title of this book A century or two ago the motives to study tropical medicine were obvious nations having enormous amounts of maritime trade with distant lands established colonial empires where health in the colonies was a con cern for both the natives and the colonists It is unsurprising that the great institutes for such studies sprang up in London Amsterdam Hamburg New York and New Orleans but few of these centers and other similar ones have continued to flourish or even to survive perhaps because the days of empires have gone

Public Health Reports ,1993 *Advances in Virus Research* ,2013-12-26 The first review series in virology and published since 1953 *Advances in Virus Research* covers a diverse range of in depth reviews providing a valuable overview of the field Contributions from leading authorities Comprehensive reviews for general and specialist use First and longest running review series in virology *Department of Defense Appropriations for ...* United States. Congress. House. Committee on Appropriations,1976 **Department of Defense appropriations for 1977** United States. Congress. House. Committee on Appropriations. Subcommittee on Department of Defense,1976

Promoting Innovation, Productivity and Industrial Growth and Reducing Poverty Maureen Mackintosh,Joanna Chataway,Marc Wuyts,2021-04-26 Development and the ending of mass poverty require a massive increase in productive capabilities and production in developing countries Some countries notably in Asia are achieving this Yet pro poor aid policies especially for the least developed countries operate largely without reference to policy thinking on the promotion of innovation for productivity growth Conversely policy makers and researchers on innovation and industrial policies tend to know little about the potential for social protection to support innovation and productivity improvement This book aims to focus attention on this gulf between research on innovation and on poverty reduction and to identify some of its policy consequences to set out some ways in which this gulf can be bridged analytically and empirically and to contribute to the

creation of an agenda for further research and an understanding of the urgency of the implied rethinking The first two chapters provide sustained arguments for embedding social policy thinking in much more productivist frameworks of thought that focus on raising productivity and employment and for identifying growth theories that can incorporate satisfactory understandings of innovation and employment upgrading A set of chapters then tackle these broad themes in the context of health addressing the interlinked issues of innovation health inequity and associated impoverishment The final set of chapters examines the challenge of creating industrial policies that generate both innovation and employment using and going beyond concepts of systems of innovation

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

IAP Textbook of Tropical Diseases Raju C Shah, 2020-03-31 SECTION 1 Epidemiology of Tropical Diseases SECTION 2 Nutritional Disorders in the Tropics SECTION 3 Tropical Neonatal Problems SECTION 4 Bacterial and Rickettsial Infections SECTION 5 Mycobacterial Infections SECTION 6 Viral Infections SECTION 7 Parasitic and Protozoal Infections Infestations SECTION 8 Fungal Infections SECTION 9 Noncommunicable Diseases in the Tropics SECTION 10 Pediatric Subspecialties in Tropics SECTION 11 Accidents and Poisoning in the Tropics SECTION 12 Emergencies and Intensive Care in the Tropics SECTION 13 Environmental Issues SECTION 14 Miscellaneous Issues

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