

## Optimal control on education, vaccination, and treatment in the model of dengue hemorrhagic fever

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### ABSTRACT

Dengue hemorrhagic fever (DHF) is an infection caused by the dengue virus which is transmitted by the *Aedes aegypti* mosquito. In this paper, a model of the spread of dengue disease is developed using optimal control theory by dividing the population into Susceptible, Exposed, Infected, and Recovered (SEIR) sub-populations. The Pontryagin minimum principle of the fourth-order Runge-Kutta method is used in the model of the spread of dengue disease by incorporating control factors in the form of education and vaccination of susceptible human populations, as well as treatment of infected human populations. Optimum control aims to minimize the infected human population in order to reduce the spread of DHF. Simulations were carried out for two cases, namely when the basic reproduction number  $R_0$  is less than one for disease-free conditions and  $R_0$  greater than one for endemic conditions. Based on numerical simulations of the SEIR epidemic model with controls, it results that the optimal strategy is achieved if education controls, vaccinations, and medication are used.

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### Introduction

Dengue Hemorrhagic Fever (DHF) is an infection caused by the Dengue Virus (Windawati et al., 2020). There are two living populations that play a role in the spread of DHF, namely humans and mosquitoes that carry the dengue virus (Sabran & Jannah, 2020). Dengue is a viral disease transmitted by *Aedes* mosquitoes, namely mosquitoes which annually cause infection of nearly 390 million humans (Lin et al., 2020). There are several types that transmit the dengue virus, including *Aedes aegypti* and *Aedes albopictus* (Dania, 2016). DHF has symptoms similar to dengue fever, but DHF has additional symptoms such as pain in the pit of the stomach, bleeding in the nose, mouth, and gums, or bruising on the skin (Ministry of Health, 2017).

The spread of DHF can be studied through mathematical modeling. Various mathematical models of DHF have been studied by several researchers, as in (Onyejekwe et al., 2019, Khan & Fatmawati, 2021) Onyejekwe et al by applying optimal control theory. In this study, prevention of DHF was carried out by educating the public and treating it. In this study it is also assumed that

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**JR Anderson**



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## **Table of Contents Dengue Hemorrhagic Feverdiagnosis Treatment And Control**

1. Understanding the eBook Dengue Hemorrhagic Feverdiagnosis Treatment And Control
  - The Rise of Digital Reading Dengue Hemorrhagic Feverdiagnosis Treatment And Control
  - Advantages of eBooks Over Traditional Books
2. Identifying Dengue Hemorrhagic Feverdiagnosis Treatment And Control
  - 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 Dengue Hemorrhagic Feverdiagnosis Treatment And Control
  - User-Friendly Interface
4. Exploring eBook Recommendations from Dengue Hemorrhagic Feverdiagnosis Treatment And Control
  - Personalized Recommendations

- Dengue Hemorrhagic Feverdiagnosis Treatment And Control User Reviews and Ratings
- Dengue Hemorrhagic Feverdiagnosis Treatment And Control and Bestseller Lists
- 5. Accessing Dengue Hemorrhagic Feverdiagnosis Treatment And Control Free and Paid eBooks
  - Dengue Hemorrhagic Feverdiagnosis Treatment And Control Public Domain eBooks
  - Dengue Hemorrhagic Feverdiagnosis Treatment And Control eBook Subscription Services
  - Dengue Hemorrhagic Feverdiagnosis Treatment And Control Budget-Friendly Options
- 6. Navigating Dengue Hemorrhagic Feverdiagnosis Treatment And Control eBook Formats
  - ePub, PDF, MOBI, and More
  - Dengue Hemorrhagic Feverdiagnosis Treatment And Control Compatibility with Devices
  - Dengue Hemorrhagic Feverdiagnosis Treatment And Control Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Dengue Hemorrhagic Feverdiagnosis Treatment And Control
  - Highlighting and Note-Taking Dengue Hemorrhagic Feverdiagnosis Treatment And Control
  - Interactive Elements Dengue Hemorrhagic Feverdiagnosis Treatment And Control
- 8. Staying Engaged with Dengue Hemorrhagic Feverdiagnosis Treatment And Control
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Dengue Hemorrhagic Feverdiagnosis Treatment And Control
- 9. Balancing eBooks and Physical Books Dengue Hemorrhagic Feverdiagnosis Treatment And Control
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Dengue Hemorrhagic Feverdiagnosis Treatment And Control
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Dengue Hemorrhagic Feverdiagnosis Treatment And Control
  - Setting Reading Goals Dengue Hemorrhagic Feverdiagnosis Treatment And Control
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Dengue Hemorrhagic Feverdiagnosis Treatment And Control
  - Fact-Checking eBook Content of Dengue Hemorrhagic Feverdiagnosis Treatment And Control

- 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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