

MATHEMATICAL MODELLING APPROACH OF THE STUDY OF EBOLA VIRUS DISEASE TRANSMISSION DYNAMICS IN A DEVELOPING COUNTRY.

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Abstract

Background: Ebola Virus causes disease both in human and non-human primates especially in developing countries. In 2014 during its outbreak, it led to majority of deaths especially in some impoverished area of West Africa and its effect is still witnessed up till date.

Materials and Methods: We studied the spread of Ebola virus and obtained a system of equations comprising of eighteen equations which completely described the transmission of Ebola Virus in a population where control measures were incorporated and a major source of contacting the disease which is the traditional washing of dead bodies was also incorporated. We investigated the local stability of the disease-free equilibrium using the Jacobian Matrix approach and the disease- endemic stability using the center manifold theorem. We also investigated the global stability of the equilibrium points using the LaSalle's Invariant principle.

Results: The result showed that the disease-free and endemic equilibrium where both local and globally stable and that the system exhibits a forward bifurcation.

Conclusions: Numerical simulations were carried out and our graphs show that vaccine and condom use is best for susceptible population, quarantine is best for exposed population, isolation is best for infectious population and proper burial of the diseased dead is the best to avoid further disease spread in the population and have quicker and better recovery.

Keywords: Mathematical models, Ebola, Stability analysis, Lyapunov function, Reproduction number, Numerical simulation.

List of Abbreviations: Zaire Ebola virus (EBOV), Sudan Ebola virus (SUDV), Bundibugyo Ebola virus (BDBV), Reston Ebola virus (RESTV) and Tai Forest (Cote D'ivoire) Ebola virus (TAFV), Ebola virus disease (EVD), Center for disease control (CDC), Transit Centers (TC)

Introduction

Ebola disease also known as Ebola hemorrhagic fever is a rare and deadly disease caused by infection with one of the Ebola virus species. Ebola Virus causes disease both in human and non-human primates. The Ebola virus have five identified species namely, Zaire Ebola virus (EBOV), Sudan Ebola virus (SUDV), Bundibugyo Ebola virus (BDBV), Reston Ebola virus (RESTV) and Tai Forest (Cote D'ivoire) Ebola virus (TAFV). Four of these viruses (except RESTV) are known to cause Ebola virus disease in humans. In 1976, Ebola virus was first discovered near the Ebola River in what is now known as Democratic Republic of Congo, (Khan *et al.*, 1999). Since then, there have been several outbreaks in Africa.

Human beings can get Ebola virus through direct contact (through broken skin or mucus membrane in the eyes, nose or mouth) with blood or body fluids of a person who is sick with Ebola disease or a person who has died from Ebola disease. Ebola virus disease (EVD) is a disease caused by Ebola virus which belongs to the Filoviridae virus family, transmitted by the handling of bush meats, contact with infected bats and from person- to- person via direct contact with infected bodily fluid, secretions, blood, contaminated environment/surfaces and organs, (Agusto *et al.*, 2017), (Saeed *et al.*, 2015), (WHO; 2016). One can equally

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