Mathematical modelling of cholera transmission and control strategies in Bangladesh

Abstract

Introduction

Methods and materials

* Describe model diagram
* Positivity and boundedness of the model solutions
* Existence of equilibria
* Equilibrium solution for disease free and disease endemic
* Derive basic reproduction number
* Local stability analysis

A diagram of a diagram

Description automatically generated

Figure 1. Schematic diagram of the cholera transmission model.

Model equations

Results

* Parameter estimation
* Sensitivity analysis
* Scenario analysis

Discussion and conclusion