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# Risk Structured Model of Cholera Infections In Cameroon

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## ABSTRACT FOR 2019 BAMM MEETING

### **Title: Risk Structured Model of Cholera Infections In Cameroon**

In this talk, we will introduce a high and low risk structured model of cholera infection dynamics in Cameroon. The model has direct (human-to-human) transmission and indirect (contaminated water-to-human) transmission. We will use our model's demographic equation to 'fit' the population of Cameroon, and then use the fitted cholera model to capture cholera cases in Cameroon from 1987 to 2017. Furthermore, we will use our model to study the impact of various cholera control strategies on the number of cholera infections in Cameroon.