1107-37-465   **Evelyn Kamaria Thomas*** (`ekthomas@umbc.edu`) and **Jonathan Bell**. *An Examination of Social Migration within a Cholera Outbreak.*

We present a system of ordinary differential equations that models the spread of Cholera between two populations: one containing healthcare resources, the other deficient of such services. We examine the affect migration based on social factors; specifically the fear of becoming infected and possible mortality when infected, has on the spread of the disease in this system. We utilize such factors to determine intervention strategies for the control and eradication of the disease. (Received January 20, 2015)