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Modeling Indirect Disease Transmission: an introduction

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Normal SIR (Susceptible Infected Recovered) models and variations on them have been used since the Kermack-McKendrick models of the 1920s. However, they are unable to represent diseases which spread indirectly such as Cholera, Giardia etc. To fill this gap iSIR models have been created with the 'i' standing for indirect. I will present an introduction to this type of model and a basic analysis of them through an example of a model intended to represent Cholera spread.