

A Brief Review of COVID-19 Mathematical Models

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Abstract. Even though mathematical epidemiology has been around for decades, but the popularity is only recently increasing significantly. With the occurrence of COVID-19 pandemic, a substantial mathematical models of COVID-19 transmission and related issues have been developed. It is important to study to what extend those models have been developed and what are the major finding of the models. This paper is an attempt to fill this gap by critically reviewing those published mathematical models and put the models into several categories. Detail discussion for each category is presented with new insight that might be obtained.