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Mathematical modeling and cellular automata simulation of infectious disease dynamics: Applications to the understanding of herd immunity Sayantan Mondal, Saumyak Mukherjee, Biman Bagchi Indian Institute of Science Bangalore

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Offered by Imperial College London. Mathematical modelling is increasingly being used to support public health decision-making in the control of infectious diseases. This specialisation aims to introduce some fundamental concepts of mathematical modelling with all modelling conducted in the programming language R - a widely used application today.

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Abstract: Three basic models (SIS endemic, SIR epidemic, and SIR endemic) for the spread of infectious diseases in populations are analyzed mathematically and applied to specific

diseases. Threshold theorems involving the basic reproduction number R 0, the contact number σ, and the replacement number R are presented for these models and their extensions such as SEIR and MSEIRS.

~~THE BASIC EPIDEMIOLOGY MODELS: MODELS, EXPRESSIONS FOR R0 ...~~
Specialist mathematical training is not a prerequisite. However, individuals with degrees in mathematical disciplines working on some aspect of infectious disease dynamics and/ or control, who wish to learn about the potential of infectious disease modelling will also benefit. Some familiarity with spreadsheet packages (ideally Excel) is desirable.

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Programme Description Mathematical modelling has played an unprecedented role in informing public health policy on the control of the current COVID19 pandemic. Infectious disease modelling groups in the UK and globally have necessarily been working in 'response' mode to provide real-time modelling of the pandemic as it unfolds.

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Almost all mathematical models of diseases start from the same basic premise: that the population can be subdivided into a set of distinct classes, dependent upon their experience with respect to the disease. The most simple of these models classifies individuals as one of susceptible, infectious or recovered. This is termed the SIR model.

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