
LILIA LETICIA RAMIREZ RAMIREZ, Instituto Tecnológico Autónomo de México (ITAM)

Simulation of Infectious Disease Spread as a Tool to Evaluate Control Measures During an Epidemic Outbreak

SIMID (SIMulation of Infectious Diseases) is a program developed with the Region of Peel, Ontario, and Infonaut Inc. to picture general scenarios for outbreaks of directly transmissible diseases. Its main goal is to facilitate for health officers and decision makers the evaluation of diverse control measures, such as prophylactic vaccination, school closures and isolation. The program was implemented for the Region of Peel, using its social and demographic characteristics to model an individual contact network with emphasis on school contacts. In this presentation we talk about the program's theoretical bases, its algorithms, its main characteristics and its possible extensions.