

Mathematical Modeling, Analysis and Simulation of the spread of gangs in the youth population of Puerto Rico

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Youth that live in public housing communities called residenciales, that have little or no supervision from care-givers are in high-risk of getting involved in illegal drug trafficking gangs that spread like a disease in densely populated sectors in the metropolitan area of Puerto Rico. In this work a Zika-inspired model is used to mimic the spread of gangs in the youth population of this susceptible youth population. This new model is presented and analyzed, along with insights gained from the simulation results.