

Modeling of drug treatment: the case of infectious diseases

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Infectious diseases are among the most common reasons causing death and burden in public health, especially in developing countries. They are drawing our attention again strongly since pathogens are getting more resistant to drugs controlling them. Here we would like to establish a new population dynamical system of these diseases together with drug treatment. Using mathematical model, we want to gain insight into problem of drug resistance and look for good strategies to control the clinical effect. By this way, we could point out which laboratory works is worth to be induced for further understanding.