

Title: A Mathematical Model of Schistosomiasis with Control Strategies

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Abstract: Schistosomiasis is listed as a big worldwide health problem by World Health Organization, the second most prevalent only after malaria in tropical parasitic diseases. Schistosomiasis is a disease caused by indirect parasite Schistosome, who spend their adult life time in the human hosts and their larva time in the intermediate snail hosts.

In this talk, we will study the control strategies of *Schistosoma mansoni* infection with *Biomphalaria glabrata* (snails) as intermediate host and human as destination host. I will talk how to build our model, and then partially analyze the stability of the multiple equilibria, finally draw a condition and make some suggestions to the Health Department based on our model.