

AN EPIDEMIC MODEL : CAMPUS DRINKING HAZARD

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Abstract

Drinking on college campuses is destructive and alcohol consumption by college students leads to diminished academic performance, stress, negative mood, medical and legal problems. Alcohol consumption can increase health problems. Due to the similarities between spread of a disease and drinking behavior, this paper considers alcohol consumption in college campus as an epidemic model. A discrete epidemic model is considered and equilibrium points are estimated. The model is constructed with difference equations and certain dynamical behavior is investigated. Also, numerical simulations are presented.

Key Words : *Epidemiology, Difference equations, Stability.*

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