

## **DYNAMICS OF AN IN-HOST HCV INFECTION MODEL WITH CTL AND ANTIBODY RESPONSES**

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### **Abstract**

An in-host HCV infection model with CTL and antibody responses is investigated in this paper. We have obtained each equilibrium point and analyzed the global asymptotic stability of each equilibrium point.

**Keywords and phrases:** mathematical model, HCV, global asymptotic stability.

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### **References**

- [1] Juan Berenguer, Federico García and Miguel A. Von-Wichmann, Guide for the screening of HCV infection in Spain, 2020, Scientific Letter Enfermedades Infecciosasy Microbiología Clínica 39(10) (2021), 527-528.
- [2] Dingyu Zou and Shifei Wang, Dynamics of an in-host HCV infection model with periodic antiviral therapy, JP J. Appl. Math. 24(1 & 2) (2021), 1-4.