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The role of e-antigen in Hepatitis B virus infection

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The role of e-antigen in Hepatitis B virus infection

During chronic Hepatitis B infection spontaneous seroconversion of e-antigen can be observed. In this study we want to gain understanding of the difference in timing of e-antigen seroconversion under treatment and in the untreated case. To reveal possible mechanisms yielding these differences, we propose a mathematical model that considers e-antigen, the corresponding antibody (HBeAb) and e-antigen-antibody complexes. Since not much is known about the formation of HBeAb, the focus of our investigations lies on determining the mechanisms of antibody production and function.