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Effect of Loranthaceae Daendropthoe Species Infusion on Serum Transaminase Level and Hepatic Necrosis in Rats

Abstract

Loranthaceae daendropthoe is a herbal preparation which has been shown as cell antiproliferant and traditionally used as anticancer. The infusion of the plant is given via oral route, which is subsequently absorbed by gastrointestinal and metabolised in liver. Liver performs many essential functions, including the production of bile, regulation of plasma proteins and glucose as well as biotransformation of drugs and toxins. This study examined whether Loranthaceae daendropthoe makes liver tissue damage in animal model. Mouse as animal models were divided into two groups, the control group was given with aquademineralisata and treatment group was given with infusion of Loranthaceae daendropthoe. Serum transaminase, specific marker of hepatocellular necrosis and the histology of mouse liver were studied 17 days after the treatment with plant infusion. Data of serum transaminase and histology were compared between treatment and control groups. The result suggested that the infusion of Loranthaceae aendropthoe did not cause liver diseases.

Keyword : Loranthaceae, daendropthoe, infusion, serum, transaminase, hepatic, necrosis, SGOT, SGPT,