

Anti-Jaundice Properties of Methanolic Extract of Carica Papaya Leaves on Jaundice-Induced Albino Rat

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Abstract : The anti-jaundice properties of the methanolic extract of Carica papaya leaves on albino rat was evaluated. In order to achieve this, the phytochemical screening of the extract was carried out, and carbon tetrachloride (CCl₄) (i.p) was injected into albino rats to induce jaundice. The rats were simultaneously given oral doses of 20 mg/kg, 40 mg/kg, 60 mg/kg, 80 mg/kg and 100 mg/kg (p.o) of methanolic extract of C. papaya. The effects of these extract on total bilirubin concentration, liver ALT AST, GGT activities of the jaundice-induced rats were studied after seven days period of the experiment. Administration of CCl₄ alone to the rats significantly increased ($p < 0.05$) total bilirubin concentration while the activities of ALT, AST, and GGT in the liver when compared to controls which received distilled water (p.o) was significantly lower ($p < 0.05$). Simultaneous treatment of CCl₄ injection, and oral administration of different doses of the C. papaya extract significantly reduced ($p < 0.05$) total bilirubin concentration in the serum while the liver ALT AST, GGT activities significantly increased ($p < 0.05$). However, the lowest significant reduction ($p < 0.05$) of bilirubin concentration was observed with simultaneous administration of 60mg/kg of the extract on the rats. This study suggests that the extract of C. papaya leaves possess the phytochemicals that have anti-jaundice properties.

Keywords : carica papaya, jaundice, herbal medicine, liver, rat

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