

Protective effect of salep on liver.

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Abstract

BACKGROUND:

Salep is used for various purposes in food industries and traditional medicine. Therefore, evaluation of its effect on the liver seems to be necessary.

OBJECTIVES:

The aim of this study was to assess salep effect on liver.

MATERIALS AND METHODS:

In this experimental study, various concentrations of Salep were intraperitoneally administered to five groups of Wistar rats (control, placebo and 20, 40 and 80 mg/kg salep). After one month, liver enzymes and liver tissue were evaluated and compared between different groups.

RESULTS:

Significant decreased level of liver enzymes, MDA (Malondialdehyde) and TOC (Total Oxidation Capacity) were found in various concentrations of salep administration. On the other hand, a significant increase was found in TAC (Total Antioxidant Capacity) level with various doses of salep.

CONCLUSIONS:

Elevated level of total protein and albumin and decreased level of liver enzyme by salep extract were found in this study. Therefore, this plant may be a useful medicine for patients with liver diseases.

KEYWORDS:

Enzymes; Liver; Rat; Salep