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THE EFFECT OF GALING PLANT (Cayratia trifolia) EXTRACT AGAINST LIVER HISTOPATHOLOGY ON WISTAR MALE WHITE RAT (Rattus norvegicus) WHICH INDUCED BY MEFENAMIC ACID


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ABSTRACT

Introduction

Cayratia trifolia is a one of the plants that acts as an antioxidant. An antioxidant is a molecule that prevents oxidation process caused by free radicals. One of the drugs that potentially can cause free radicals is NSAID usage. NSAID is uses to cure musculoskeletal inflammatory problems and acts as an analgesic. Almost all NSAIDs causes harm to the liver, from mild reversible elevation to severe necrosis of the liver enzyme.

Aims

The purpose of this experimental research is to know the effect of Cayratia trifolia to the histopathological images of male’s Rathus norvegicus liver which is inducted by mfenamic acid.

Methods

This laboratorial experimental research is designed by post test only control group. The experimental animal which I choose is white male Rathus norvegicus which is divided to 3 groups (n = 10), the negative control group, which was given food orally and water for 14 days, the positive control group was given food and water orally, with 2,5 ml mfenamic acid in (CMC-Na) per day for 14 day, and the intervention group was given food and water
orally with 2ml Cayratia trifolia extract, in addition, they were given 2,5ml mefenamic acid in (CMC-Na) 45 minutes later for 14 days. In the 15th days, the animals were dissected and the histopathology examination was done to look for the liver cell damage. Then, the data was analyzed by Kruskall-Wallis and Mann-Whitney U.

**Results**

The result show a significant differences between negative control compared to positif control (p=0,001) and positif control compared to treatment group (p=0,004). The comparation between negative group and treatment group shows no significant result (p=0,002).

**Conclusions**

Caryatia trifolia extract has a role in reducing liver cell damage which is marked by the necrosis of the hepatic cells in the animals which was given the mefanamic acid.

**Keywords:** (Caryatia trifolia), mefenamic acid, heptotoxicity, Non Steroidal Anti Inflammatory (NSAID)