

SUBCHRONIC TOXICITY EFFECT SEEDS EXTRACT OF *Swietenia mahagoni* Jacq TO MICE (*Mus musculus*) MALE LIVER HISTOPATOLOGY DESCRIPTION

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ABSTRACT

This study was aimed to know the effects subchronic toxicity of *Swietenia mahagoni* Jacq seeds extract to mice (*Mus musculus*) male liver histopatology description. Twenty four mice male (\pm 20 g) were randomly divided into four groups. 0,5 % CMC suspension (0,5 ml) administered orally as control group (n = 6) and treatment groups received seeds extract of *Swietenia mahagoni* Jacq orally at a dose 3,64 mg/20g/day and 7,28 mg/20 g/day, 10.92 mg/20 g/day in fourty days. After treatment at 42nd days, mice were sacrificed to made preparation of liver histopatology. The data of this study were analized with Kruskal-Wallis test and continued by Z test 5 %. The preparation of liver histopatology were evaluated by light microscopy and the result showed that histopatological description of liver changed due to seeds extract of *Swietenia mahagoni* Jacq orally given in subchronic toxicity test. The changes of histopatological description of liver were significantly higher in third and second groups compared to first group and control group ($p < 0,05$). Light microscopy revealed severe degeneration and necrosis in the liver cells of third and second treatment groups, but histopatological description changes was mild degeneration in first treatment groups. Our findings out the risk of liver damage due to long term use of *Swietenia mahagoni* Jacq's seeds as plant medicine. Although seeds mahoni are reported to be effective as antidiabetic medicine, their toxic effects should be kept in mind during chronic usage.

Key Words : Toxicity subchronic test, *Swietenia mahagoni* Jacq., liver histopatology.