

**EFFECT OF *Moringa oleifera* LEAF EXTRACT ON THE  
HISTOPATHOLOGICAL FEATURES LIVER CELL OF MALE  
MICE (*Mus musculus*) EXPOSED BY METHYLMERCURY**

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**ABSTRACT**

This research aimed to demonstrate the effect of *Moringa oleifera* leaf extract on the histopathological features of hepatosit in zone 3 liver of mice (*Mus musculus*) exposed to methylmercury. Twenty five male mice which sixteen week ages with 20-40 g everage of body weight were used. The member of treatment were five groups (K-, K+, P1, P2, P3), each group was divided into five mices were treat for 21 days and adopt for seven days. The treatment were given on 8th days. Group K- and K+ were given CMC Na 0,5% and after one hour +0,1 ml/g bw aquadest for K- and +0,4 ml/kg methylmercury for K+. Group P1, P2, and P3 were given 200, 400, and 800 mg/kg by of *Moringa oleifera* leaf extract respectively, and after one hour +0,4 ml/kg methylmercury for each group. On the 22th days, male mice was dissected and the liver was taken to made histopathological preparation. The data was analyze with ANOVA test and Duncan's Multiple Range test. The analysis result showed that K+ significant to K-, P1, and P2, and K+ significant to K-, P1, P2, and P3. The result showed that *Moringa oleifera* leaf extract reduced the damage of hepatosit in zone 3 liver of mice exposed to methylmercury. The dose of 800 mg/kg bw *Moringa oleifera* leaf extract could provide the best protective effect compared to dose of 200 mg/kg bw and 400 mg/kg bw.

**Keywords:** *Moringa oleifera*, Methylmercury, Liver, Hepatosit.