

**EFFECT OF *Polygonum minus* LEAVES EXTRACT ON  
HISTOPATHOLOGICAL FEATURES OF MICE (*Mus musculus*) LIVER  
INDUCED BY MERCURIC CHLORIDE**

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**ABSTRACT**

The aim of this study was to examine the protective effect of *Polygonum minus* leaf extract on histopathological changes of the liver induced by mercuric chloride in mice (*Mus musculus*). Thirty male mice were divided into five groups, six mice each and administered through oral gavage with different treatments for 21 days. The treatments were C- (CMC Na 0.5% solution + aquadest), C+ (CMC Na 0.5% solution + 8 mg/kg bw mercuric chloride), T1, T2, and T3 (200, 400, and 800 mg/kg bw *Polygonum minus* leaf extract respectively + 8 mg/kg bw mercuric chloride). After treatments, histopathological evaluation was done to calculate the percentage of the lesion using Arsad scoring method. The data was analyzed by Kruskal Wallis and Mann-Whitney Test. The research showed significant difference ( $p < 0.05$ ) among the treatment groups. The conclusion of this research is *Polygonum minus* leaf extract can protect mice liver from destructive effect of mercuric chloride, and the best dose was 400 mg/kg bw.

**Keywords :** *Polygonum minus*, mercuric chloride, *Mus musculus*, liver