

**EFFECT OF *Polygonum minus* (KNOTWEED) LEAVES EXTRACT ON
THE HISTOPATHOLOGICAL CHANGES OF KIDNEY
IN MICE (*Mus musculus*) INDUCED BY
MERCURIC CHLORIDE**

Winni Aprianti

ABSTRACT

This research was conducted to investigate the protective effect *Polygonum minus* leaves extract on the histopathological changes of kidney induced by mercuric chloride in mice (*Mus musculus*). Thirty male mice were divided into five groups and were administered via intragastric gavage with different treatments for 21 days. The treatment were C- (CMC Na 0.5% solution + aquadest), C+ (CMC Na 0.5% solution + 8 mg/kg bw of mercuric chloride), T1, T2, and T3 (200, 400, and 800 mg/kg bw of *Polygonum minus* leaves extract respectively + 8 mg/kg bw of mercuric chloride). The histopathological changes of kidney were examined by using Arshad Scoring method. Then the data was analysed using Kruskal Wallis and continued with Mann-Whitney test. The result showed *Polygonum minus* leaves extract could protect mice kidney from the damage effect of mercuric chloride. The best dose of *Polygonum minus* on this research was 400 mg/kg bw.

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