

**EFFECT OF *Polygonum minus* (KESUM) LEAVES ETHANOLIC  
EXTRACT ON HISTOPATHOLOGICAL CHANGES  
ON THE WALL AORTA IN MICE (*Mus musculus*)  
INDUCED BY CADMIUM CHLORIDE**

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**ABSTRACT**

This study was conducted to investigate the protective effect *Polygonum minus* leaves extract on the histopathological changes on aorta wall in mice (*Mus musculus*) induced by cadmium chloride. Thirty male mice were divided into five groups and were administered via intragastric gavage with different treatments for 21 days. The treatment were Negative Control (CMC Na 0.5% solution + aquadest), Positive Control (CMC Na0.5% solution + 8 mg/kg bw of mercuric chloride), Treatment 1, 2, and 3 (200, 400, and 800 mg/kg bw of *Polygonum minus* leaves extract respectively + 8 mg/kg bw of cadmium chloride). The microscope examine followed analyzed by One Way ANOVA continued with Duncan test for counting the amount of foam cell and the histopathological changes of aorta wall were examined by using Ifora Scoring method was analysed using Kruskal Wallis and continued with Mann-Whitney test. The result showed *Polygonum minus* leaves extract could protect mice aorta wall from the damage effect of cadmium chloride. The best dose of *Polygonum minus* on this research was 400 mg/kg bw.

**Keyword:** *Polygonum minus, cadmium chloride, Mus musculus, aorta wall*