

**THE EFFECT OF CLOVE LEAF EXTRACT (*Syzygium aromaticum*) ON
THE HISTOPATHOLOGY OF PULMONARY MICE (*Mus musculus*)
THAT WERE INFECTED BY *Mycobacterium tuberculosis*.**

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ABSTRACT

This research aimed to know the effect of clove leaf extract (*Syzygium aromaticum*) on the histopathology of pulmonary mice (*Mus musculus*) infected with *Mycobacterium tuberculosis*. 20 male mice were grouped into 5 groups and given with different treatments. the negative control group was not infected but on day 29 to day 56 was given CMC Na 1% solution. The positive control group was infected with *Mycobacterium tuberculosis* and day 29 to day 56 was given CMC Na 1% solution. Group P1, P2, P3 were infected with *Mycobacterium tuberculosis*. After that, groups P1, P2, P3 were treated with clove leaf extract (*Syzygium aromaticum*) with each dose of 375 mg/KgBB for P1, 750 mg/KgBB for P2, and 1500 mg/KgBB for P3 on day 29 to day 56. Observation of samples using microscopic examination with microscope 100x magnification and optilab viewer. Data analysis using the Kruskal Wallis test and continued by the Mann Whitney test using the SPSS version 21 program for Windows. The results showed that clove leaf extract (*Syzygium aromaticum*) dose 375 mg/ KgBB was the lowest accumulation of inflammatory scores that approached the negative control group, so that was effective as an anti-inflammatory due to tuberculosis.

Keywords: *Syzygium aromaticum*, *Mycobacterium tuberculosis*, *Mus musculus*