ABSTRACT

THE EFFECTS OF METHANOL EXTRACT OF KETAPANG (*Terminalia catappa L.)* LEAVES FOR COLLAGEN DENSITY ON WOUND HEALING OF MICE (*Mus musculus*)

BY

HANARISHA PUTRI AZKIA

One of plants that has been known to have many health benefits is ketapang. Ketapang (*Terminalia catappa L.*) leaves contain so many bioactive compounds such as steroids, tannins, and flavonoids, which thought to have positive effect in accelerating wound healing. The purpose of this study is to know the effect of methanol extract of ketapang leaves (*Terminalia catappa L.*) for collagen density on wound healing of mice (*Mus musculus*).

In this study, 20 male mice are divided into 5 groups at random and given the treatment for 7 days. K-(negative control that only treated with aquadest), K + (positive control treated by povidone iodine), P1 (treated by ketapang leaves extract of 25%), P2 (treated by ketapang leaves extract of 50%), and P3 (treated by ketapang leaves extract of 100%).

The results of One Way Anova test showed that there are significant differences between experimental groups p=0.000. Statistical tests Post-Hoc LSD showed significant differences between the K-and P1, P2, P3 ($p < 0.05$). While the group of K + and P1, P2 is not obtained significant differences. But between the group of K + and P3 showed that there is a significant differences ($p = 0.000$). The methanol extract of ketapang leaves with 100% concentration has the most significant effect for collagen density on wound healing.

Keywords: Collagen density, ketapang leaves, methanol extract, wound healing