

ABSTRACT

THE EFFECT OF *Terminalia catappa* L LEAVES METANOL EXTRACT TO A NUMBER OF FIBROBLAST FOR INCISION WOUND HEALING IN MICE (*Mus musculus*)

By

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The use of *Terminalia catappa* leaves has not been known in Indonesia. *Terminalia catappa* leaves have many benefits such as a treat pain of itching, peeling skin, ulcers, diarrhea, gastrointestinal tract disorders, respiratory disorders, reduce high blood pressure, insomnia and blood urine. Besides *Terminalia catappa* leaves are used in the cosmetic. *Terminalia catappa* leaves contained drug compounds such as saponins, tannins and flavonoids that have an effect in accelerated wound healing by increased a number of fibroblasts. The purpose of this study was to determine the effect of *Terminalia catappa* leaves extract to fibroblast for incision wound healing in mice (*Mus musculus*).

In this study, 20 male mice were divided randomly into 5 groups and treated for 7 days. K- (negative control which was only given distilled water), K+ (positive control which was given *povidone iodine*), P1 (given *Terminalia catappa* leaves extract 25%), P2 (given *Terminalia catappa* leaves extract 50%), and P3 (given *Terminalia catappa* leaves extract 100%).

The results showed that *Terminalia catappa* leaves extract 50% and 100% can increase a number of fibroblasts for incision wound healing in mice (*Mus musculus*). The results showed a significant increase of the positive control.

Keywords: Leaves of ketapang, *Terminalia catappa*, fibroblasts, wound healing.