

ABSTRACT***The Effect of Turmeric Rhizome Extract to the Increase of Collagen Fiber Cuts Healing in Mice***

Background. There are some step in the wound healing. Some of them are proliferation of fibroblast cells that can increase by various ways. In this research, the writers try to use the rhizome extract. **Purpose.** The aim of this research is to observe the activity of fractinated turmeric rhizomes (*Curcuma Domesticae*) with etanol 96%. The objective of the present research is to study the activity of *Curcuma Domesticae* extract in the acceleration of wound healing process on mice skins (*Mus Musculus*) especially increase collagen fibers. **Method.** Totally of twenty four mice strain DDY 4-6 weeks old were devided into four groups that is negative control was leaved without treatment, positive control group was gived the treatment *Curcuma Domesticae* extract dose 0,15mg, 0,25 mg, and 0,35mg. All mice were aseptically wounded 1-1,5 cm in the anterior region of back skin using a sterile scalpel. The wound wassmeared with the extract. The pathology anatomy observations was done inday 7 post wounded. Parameters of the gross lesions (pathology anatomy) observations were the thickness of collagen fibers. All quantitative data were measure using Kruskal-Wallis and continue with Mann Whitney. **Result.** The result shows that curcuma domesticate extract dose 0,35mg was thickness collagen fibers than the other group. **Conclusion.** Base on the result the *Curcuma Domesticae* extract can accelerate the wound healing process and increase the thickness of collagen fibers.

Key words : *curcuma domesticae* extract, wound healing, collagen fibers