ABSTRACT

THE SECOND DEGREE BURNS HEALING RATE COMPARISON BETWEEN TOPICAL MASHED BINAHONG 
(Anredera cordifolia (Ten.) Steenis) AND HYDROGEL ON WHITE RATS (Rattus norvegicus) Sprague Dawley STRAIN

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Second degree burns is the most frequently wound that found at house. Hydrogel is the standard therapy for burns. Another treatment for burns is binahong. The aim of this study is to know the healing rate of topical mashed binahong compares to hydrogel on white rats (Rattus norvegicus) sprague dawley strain’s second degree burns.

This experimental research is using post test only controlled group design method requiring 6 white rats and each of them is given with 3 different treatments for 14 days. The treatments are consist of control group, binahong group, and hydrogel group. Measurement of burns diameter is performed on skin of white rats and the sample is taken for the microscopic examination after 14 days of therapy.

The result shows that binahong treatment can reduce the diameter of burns significantly on day 14th compared to hydrogel. with p<0.05 (0.03) but on microscopic appearance, a small number is discovered between binahong and hydrogel, with p>0.05 (0.188).

The conclusion are (1) the healing level in second degree burns with binahong therapy is higher than hydrogel on the macroscopic appearance. (2) there is no significant differences between binahong group treatment and hydrogel treatment on the microscopic appearance of the skin.

Keywords: Anredera cordifolia (Ten.) Steenis, binahong, hydrogel, second degree burns.