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Effectiveness Bitter Leaf Extract (*Vernonia amygdalina*) by Topical to Re-epithelialization Incision Wound Healing in Rats (*Rattus novergicus*)

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ABSTRACT

This study aims to determine the effect and the correlation concentration of bitter leaf (*Vernonia amygdalina*) extract topically to the effectiveness of wound healing and re-epithelialization incision wound healing in rats. 20 male rats are grouped randomly divided into 5 groups, P0 (vaseline + adeps lanae), P1 (povidone iodine), P2 (bitter leaf extract ointment 16.8%), P3 (bitter leaf extract ointment 28 %), and P4 (bitter leaf extract ointment 39.20%). The research was carried out for 14 days to measure the re-epithelialization score on histopathological preparations skin incision that has been treated. Results of the study showed no significantly difference between the control treatment ($p > 0.05$). Treatment with bitter leaf extract (*Vernonia amygdalina*) did not show a different re-epithelialization with control treatment.

Key words: bitter leaf, healing, wounds, incisions, re-epithelialization