



THE WOUND HEALING ABILITIES OF AVOCADO (PERSEA AMERICANA) LEAVES AS A WOUND HEALING OINTMENT

GUEVARRA, JOSE JELANI A.

BASCUGUIN, JOHN LOYD A.

CERDO, JESSE M.

LOPEZ, JOHN LUIS N.

PEÑAFLOIDA, PRINCESS MICKEY D.

Balayan Senior High School

ABSTRACT

The researchers examined the wound-healing properties of the avocado (*Persea americana*) leaf extract and its modern-day applications were presented. A number of bioactive compounds are present in the avocado tree leaves, amongst them are phenolics and flavonoids, which exhibit antioxidant and antimicrobial activities. Healing applications of the avocado leaves have been used in folk medicine for centuries; however, scientific proof is just beginning to catch up. The aim of this study was to evaluate the wound-healing efficacy of the extract in comparison to standard treatments and a placebo. In an experimental design, the bioactive composition was extracted from the leaves of the avocado with the aid of ethanol and formulated into ointment. Four *Mus musculus* (albino mice) were assigned into control and experimental groups and wounding procedures were conducted while treatment was applied daily for seven days. Healing was assessed by comparing macro-(wound closure rate) and microscopes (tissue regeneration). For validity, results were statistically analyzed by ANOVA. All ethical protocol considerations were done impartially. obtained showed that the

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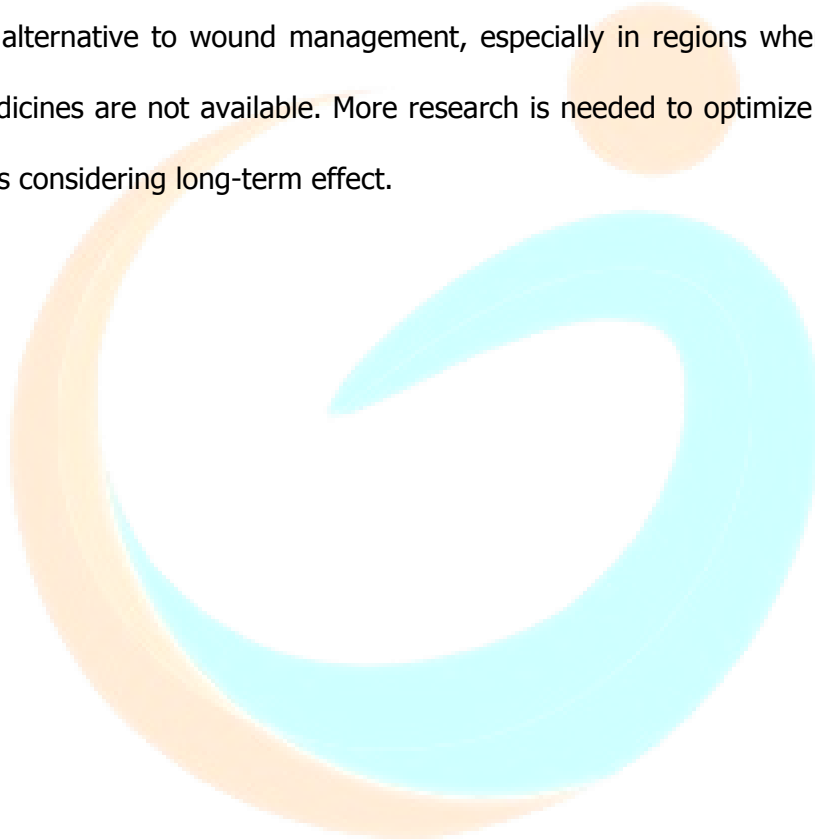
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wound closure rate and tissue regeneration demonstrated in the avocado leaf extract treatment group was observed earlier as compared to the controls, which was consistent with observations from prior research in antioxidant and antimicrobial activity. Nevertheless, compounding challenges such as variation in bioactive compound concentration and stability of formulation were noted. The study recommends the possible use of the avocado leaves extract as an alternative to wound management, especially in regions where forms of the traditional medicines are not available. More research is needed to optimize formulations in clinical settings considering long-term effect.



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