

Wound Healing Effect of *Acokanthera schimperi Schweinf* (Apocynaceae) Methanol Leaf Extract Ointment in Mice and Its invitro Antioxidant Activity



Abstract

Background: *Acokanthera schimperi* is traditionally used for the treatment of wounds and various bacterial infections. Due to the ongoing escalation of antimicrobial resistance, there is an increasing demand for the appropriate wound care and hence, the present study was initiated to investigate the wound healing effects of the leaf extract ointments of *A. schimperi* in mice and its in-vitro antioxidant activity.

Methods: The crude extract was prepared as 5% and 10% w/w ointments for topical use in mice. Wound contraction and epithelialization period were determined in excision and infected models, whereas tensile strength was determined in an incision model. Besides, its antioxidant activity was evaluated using the DPPH method

Publication

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Biography

Belete Kassa Alemu is a pharmacologist working at Wollo University, Ethiopia with more than three years of teaching experience after his specialization in Pharmacology in 2017. Initially, He studied bachelor of Pharmacy and he started his career being an assistant lecturer at Wollo University six years ago. To date, He have engaged in various research works, university affairs, and community and professional activities in addition to teaching. As a young academician, he won research grants and published more than 8 research works as a corresponding author in the peer-reviewed journals. He also expresses himself as sociable, active learner, open-minded, realistic optimist and assertive. He is an enthusiastic, energetic and dedicated to changing with a firm belief that the world belongs to the energetic, and that the principles of conservation always work in the favor of the confronters.

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