

*Full Length Research Paper*

## **Potential activity of ethanolic extract of *Boesenbergia rotunda* (L.) rhizomes extract in accelerating wound healing in rats**

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**This study was conducted to evaluate the effects of topical application of ethanol extract of *Boesenbergia rotunda* rhizomes on the rate of wound healing closure and histology of healed wound.**

**An area of uniform wound 2.00 cm in diameter using circular stamp, was excised from the nape of the**

**dorsal neck of all rats with the aid of round seal. The animal groups were topically treated with 0.2 ml of**

**each vehicle (gum acacia), Intrasite gel, 100 and 200 mg/ml of ethanol extract, respectively.**

**Macroscopically, wound dressed with rhizomes extract and Intrasite gel significantly healed earlier than**

**those treated with vehicle. Histological analysis of healed wounds dressed with rhizomes extract showed comparatively less scar width at wound closure and healed wound contained less inflammatory**

**cells and more collagen with angiogenesis compared to wounds dressed with vehicle. In conclusion,**

**wounds dressed with rhizomes extract significantly enhanced the acceleration of wound healing enclosure in rats.**

**Key words:** *Boesenbergia rotunda*, rhizomes, ethanol extract; wound healing, histology.