

Exploring the Effect of Tridax Procumbens Gel on Wound Healing

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Abstract: Wound healing is a complex biological process involving tissue repair and regeneration. The use of herbal medicines in wound care is gaining momentum due to their safety and efficacy. *Tridax procumbens*, a widely available medicinal plant, is traditionally used for its anti-inflammatory, antimicrobial, and wound healing properties. This study aims to formulate and evaluate a topical gel containing *Tridax procumbens* extract for enhancing wound healing. The gel formulation was characterized for physical parameters and subjected to *in vitro* and *in vivo* wound healing studies. The results demonstrated significant improvement in wound contraction, epithelization period, and collagen synthesis compared to the control group. The findings suggest that *Tridax procumbens* gel is a promising herbal formulation for wound management.

Keywords: *Tridax procumbens*, wound healing, herbal gel, anti-inflammatory, topical formulation, collagen synthesis

