

Tridax Procumbens : Promising Phytopharmaceutical Agent for Wound Healing and Skin Regeneration

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Abstract: *Coat buttons or Tridax procumbens Linn., are a well-known medicinal herb for its potent wound-healing and skin-regenerating qualities. Packed with bioactive substances including flavonoids, alkaloids, tannins, and saponins, it has antibacterial, anti-inflammatory, antioxidant, and immunomodulatory properties that work together to improve tissue healing. The pharmacological, phytochemical, and mechanistic aspects of T. procumbens in wound healing are thoroughly examined in this review, which also describes its function in the four stages of wound healing: hemostasis, inflammation, proliferation, and remodeling. With encouraging results in both in vitro and in vivo models, preclinical research shows its effectiveness in stimulating fibroblast proliferation, collagen synthesis, angiogenesis, and epithelialization. Its conventional use in various cultures, extraction techniques, and formulation approaches such bioactive wound dressings are also covered. Despite its medicinal potential, issues such phytochemical content fluctuation, dose-dependent inflammation, and a lack of clinical trials call for more research. For contemporary wound care and skin regeneration treatments, T. procumbens appears to be a safe, economical, and promising phytopharmaceutical agent*

Keywords: Tridax procumbens ,Coatbuttons, Epithelialization, Cytotoxicity, Angiogenesi

