

عنوان مقاله:

The Effect of Licorice Extract (*Glycyrrhiza glabra*) and Shepherd's Bag (*Capsella bursa-pastoris*) on Wound Healing in a Rat Model

محل انتشار:

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خلاصه مقاله:

Background and aim: Wound healing is a intricate biological process involving diverse cellular and molecular events. This study aimed to explore the impact of hydroalcoholic extracts from licorice (*Glycyrrhiza glabra*) and Shepherd's Purse (*Capsella bursa-pastoris*) on wound healing in a rat model. The investigation encompassed a histopathological evaluation, focusing on parameters such as wound size, edematous cells, angiogenesis, fibrocyte and fibroblast cells, and collagen organization. Materials and Methods: The study utilized hydroalcoholic extracts from licorice and Shepherd's Purse. Wistar rats model was employed for in-depth histopathological evaluation, assessing various aspects of wound healing. Parameters included wound size measurement, edema reduction, angiogenesis stimulation, and collagen organization enhancement. The methods employed were crucial for establishing the efficacy of the natural extracts in wound repair. Results: Results indicated that both licorice and Shepherd's Purse extracts demonstrated positive effects on the wound healing process. Licorice extract exhibited substantial improvements in wound closure, reduced edema, stimulated angiogenesis, and enhanced collagen organization. Shepherd's Purse extract also displayed promising effects, albeit to a slightly lesser extent compared to licorice. These findings underscore the therapeutic potential of these natural extracts in wound healing. Conclusion: The study provides valuable insights into the potential of licorice and Shepherd's Purse extracts as natural remedies for promoting wound repair. The observed improvements in wound closure, edema reduction, and collagen organization suggest these extracts could be beneficial in clinical settings. However, further investigations are necessary to elucidate the underlying molecular mechanisms. In conclusion, this study contributes to our understanding of the potential therapeutic applications of licorice and Shepherd's Purse extracts in wound healing.

کلمات کلیدی:

Wound healing, licorice extract, Shepherd's Purse extract, Histopathological evaluation, Angiogenesis, Collagen organization, ترمیم زخم، عصاره شیرین بیان، عصاره کیسه کشیش، ارزیابی هیستوپاتولوژیک، رگزایی، سازمان کلاژن

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