



Tipo	Periódico
Título	Effects of dipotassium glycyrrhizinate on wound healing
Autores	Camila dos Santos Leite, Oscar César Pires, Danielle Gatti Tennis, Jussara Vaz Nascimento Ziegler, Denise Gonçalves Priolli, Thalita Rocha
Autor (es) USF	Camila dos Santos Leite, Danielle Gatti Tennis, Jussara Vaz Nascimento Ziegler, Denise Gonçalves Priolli, Thalita Rocha
Autores Internacionais	-
Programa/Curso (s)	Programa de Pós-Graduação Stricto Sensu em Ciências da Saúde
DOI	https://doi.org/10.1590/ACB360801
Assunto (palavras chaves)	Glycyrrhizic Acid; Wound Healing; Collagen; Models; Animal; Rats
Idioma	Inglês
Fonte	Título do periódico: Acta Cirúrgica Brasileira ISSN: 1678-2674 Volume/Número/Paginação/Ano: 36/8/e360801/2021
Data da publicação	08 julho de 2021
Formato da produção	Digital
Resumo	<p>Purpose: Dipotassium glycyrrhizinate (DPG) has anti-inflammatory properties, besides promoting the regeneration of skeletal muscle. However, it has not been reported on skin wound healing/ regeneration. This research aimed to characterize the effects of DPG in the treatment of excisional wounds by second intention. Methods: Male adults (n=10) and elderly (n=10) Wistar rats were used. Two circular wounds were excised on the dorsal skin. The excised normal skins were considered adult (GAN) and elderly (GIN) naïve. For seven days, 2% DPG was applied on the proximal excision: treated adult (GADPG) and elderly (GIDPG), whereas distal excisions were untreated adult (GANT) and elderly (GINT). Wound healing areas were daily measured and removed for morphological analyses after the 14th and the 21st postoperative day. Slides were stained with hematoxylin-eosin, Masson's trichrome, and picosirius red. Results: Histological analysis revealed intact (GAN/GIN) and regenerated (GANT/GINT/GADPG/GIDPG) skins. No differences of wounds' size were found among treated groups. Epidermis was thicker after 14 days and thinner after 21 days of DPG administration. Higher collagen I density was found in GIDPG (14th day) and GADPG (21st day). Conclusion: DPG induced wound healing/skin regeneration, with collagen I, being more effective in the first 14 days after injury.</p>
Fomento	-