

Authors: mohammadi aa, Tavakolian a, Amini m

Shiraz University of MEDICAL sciences, Shiraz Burn Reaserch Center

Comparison of efficacy of Gavaher Shafa ointment versus Silver Sulfadiazin ointment in wound healing in deep burn wound in rat

Introduction:

Infection is one of the common local factor that causes delay in wound healing .At present time local antimicrobial drug was used for protection of infection commonly. Most of these drugs are cytotoxic for fibroblast and keratinocyte cells and cause delay in wound healing. In this study Gavaher Shafe ointment that is a verbal ointment was used for burn wound healing.

Material and method:

In this study sixty mouse's were divided to three groups and after making third degree burn wound In them, One group not used any drug, One group was dressing with Gavaher Shafa daily and one group was dressing with silver sulfadiazin daily .Weekly imaging was taken for evaluation contracture and end of the study wounds were excised and send to pathology for evaluation of fibrosis epithelialization, inflammation, ulcer and granulation rates.

Result:

In evaluation of inflammation, ulcer and epithelialization between three groups, the mean of Gavaher Shafa was better than other two groups. evaluation of fibrosis; moderate fibrosis in control group was 45% , in Gavaher Shafa group 5% , in silver sulfadiazine group 0% (p value </001) Evaluation of granulation; sevear granulation was 40% in control group, 0% in Gavaher Shafa group, 0% in silver sulfadiazine group. Comparation of wound contracture at the end of study was significant difference (p value <0/1 %) and wound contracture: In silver sulfadiazine group was more than other two groups.

Conclusion:

Mean of Inflammation, epithelialization and ulcer, in Gavaher Shafa group was better than other two groups .Compration of fibrosis and granulation rates between three groups had significant difference and Gavaher Shafa had better result. Therefore use of Gavaher Shafa ointment for burn wound healing is rational.

key word:

Gavaher Shafa - wound healing -burn -fibrosis -granulation.