

Healing of Chronic Wounds by Copper Oxide-Impregnated Wound Dressings – Case Series

Published March 2021



medicina

This collection of 10 case studies reviews healing of infected and non-infected wounds, following the application of copper oxide impregnated wound dressings.

Ten cases of patients with etiologies such as diabetes mellitus, sickle cell disease, renal failure, and necrotizing fasciitis, who were treated with the application of copper-oxide impregnated wound dressings, are described.

Significant enhanced wound healing was found in each case, including:

- Clearing of the wound infections
- Reduction of the fibrous and/or necrotic tissue
- Intense granulation
- Epithelialization
- Wound closure

The cases support the hypothesis that the copper oxide containing wound dressings:

- Protects the wound and the dressing from microbial contamination
- Helps clear the wound infections
- Stimulates wound healing and skin regeneration.

These findings may be of special importance in chronic wounds, such as diabetic wounds, venous and pressure ulcers, which fail to heal with other well-recognized wound care treatments.

“...the use of copper oxide impregnated wound dressings may be an important intervention in the arsenal of wound treatment modalities, especially in hard to heal wounds.”

Melamed, E., Kiambi, P., Okoth, D., Honigber, I., Tamir, E., and Borkow, G. (2021) Healing of Chronic Wounds by Copper Oxide-Impregnated Wound Dressings – Case Series. *Medicina* 57, 296

Read the full text online: <https://www.mdpi.com/1648-9144/57/3/296>