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The effects of *Hypericum perforatum* and polihexanide in treatment of tissue loss wounds infected with *Staphylococcus aureus*

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The aim of this study is to present the effects on wound healing of *Hypericum perforatum* and polihexanide use in tissue loss wounds infected with *Staphylococcus aureus*. The research was carried out on 48 adult female Wistar albino rats. Under general anaesthesia, wounds were created with 1 cm skin incision on the back of all rats. After 24 hours, the injection was made to wound with *Staphylococcus aureus* suspension. After 48 hours, wound cultures were obtained for each rats. At Çukurova University Hospital, Department of Microbiology, inoculation was performed instead of appropriate fattening. This procedure was repeated every 48 hours until culture results are obtained in reproduction. As soon as reproduction was detected in cultures, treatment began. Rats were randomly separated in to 4 main groups each group consisted of 12 animals. Control group (burned but no topical agent), in the *Hypericum perforatum* oil groups, 1 mL of *Hypericum perforatum* oil was administered via syringe to the wound, in the polihexanide groups, 1 mL of polihexanid was administered via syringe to the wound, in the *Hypericum perforatum* oil and polihexanid groups in which both *Hypericum perforatum* and polihexanide were applied a total of 1 mL was administered via syringe to the wound. The changes in the diameter of the wounds and the clinical course were evaluated daily. Tissue samples were taken by punch biopsy under anaesthesia at the 7th and 14th day and histopathological evaluations were obtained. This study showed that both *Hypericum perforatum* and polihexanid are effective in treatment of tissue loss wounds infected with *Staphylococcus aureus* in rats.

Biography

Selvinaz Yakan is an expert in Veterinary Surgery. She has completed her PhD at Kafkas University, and now she is working as Associate Professor at Agri Ibrahim Cecen University Eleskirt Celal Oruc School of Animal Production, Animal Health Department, Agri, Turkey. She focuses on pain, veterinary ophthalmology, wound healing, veterinary anaesthesia and analgesia.

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