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In vivo antimicrobial activity of Matricaria chamomilla extract against Pathogenic Bacteria induced skin infections in Mice

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Abstract

Matricaria chamomilla that has been used to treat various ailments such as burns and wound since ancient times. So, this study was aimed to achieve the effectiveness of various construction of Matricaria chamomilla against the growth of Staphylococcus aureus by using of well agar diffusion technique in comparison with Gentamycin. Results showed a difference in the rate of zones inhibition by using Matricaria chamomilla against staphylococcus where he scored concentration (60 mg / mm) (21mm.) while the Gentamycin a concentration (60 microgram / ml) on the growth of Staphylococcus aureus (19mm.). (15) albino mic was used, divided into 3 groups (n= 5 / group). All animals in all groups experimentally induced skin incision (5 mm) in the flank area of the body, and infected with S. aureus suspension, and treated after infected the wound (24 hrs.) according to the experimental design. The groups were treated with Matricaria chamomilla at a concentration (60 mg/ml), appear complete healing in 14 days of treatment and returning of hair in the wound area, in comparison with a control group and the group when treated with Gentamicin ointment that required (21) days to recovery. So, the Matricaria chamomilla is good as an antibacterial effectiveness against bacterial infections that infected wounds.

Keywords: Antibacterial Activity, Staphylococcus aureus, Matricaria chamomilla flowers Extract, and Wound in mice