
Journal of Applied Veterinary Sciences, 7 (1): 18-23 (January, 2022).

ISSN: Online: 2090-3308, Print: 1687-4072

Journal homepage : <https://javs.journals.ekb.eg>



Histological and Clinical Finding of Systemic Melatonin on Wound Healing after Tooth Extraction in Rabbits.

ABSTRACT:

This study aimed to evaluate the effects of systemic melatonin on wound healing after tooth extraction. This study was conducted on twenty healthy adult male New Zealand albino rabbits. Tooth extraction was done on all rabbits, and then animals were divided into two major groups. Control group (n=10): received no treatment. Melatonin treated group (n=10): received melatonin orally (1mg/kg) dissolved in distilled water; gave it to the rabbits once daily for a determined period. On days seventh and fourteenth, all animals in each group were sacrificed. The wound area site undergoes histological examination to compare the healing among the control group and melatonin treated group. The present study demonstrated that melatonin treated group found to accelerate wound healing manifested by a score of angiogenesis (1.6 ± 0.54), granulation tissue (2 ± 0.70) and reepithelization (1.2 ± 0.44) while a decrease in inflammatory cells (0 ± 0.00) in comparison to control group at 7th and (2 ± 0.70), (2.2 ± 0.44), (2.6 ± 0.54) respectively and decrease in inflammation (0 ± 0.00) at the 14th day. In this study, we found that systemic melatonin accelerates socket wound healing after tooth extraction