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Evaluation of a topical Phenytoin on gingival wound healing

Mehdi Honarparvar

Centro Escolar University, Philippines

The study aimed to evaluate the wound healing activity of topical phenytoin on gingival wound healing. In particular, 24 rabbits with the same gender, race and diet were kept in the same environment and were divided into two groups: 12 for the experimental group and another 12 for the control group. Each rabbit was prepared for surgery. The study focused on the clinical analysis in terms of color, size and gross appearance of the wound. Likewise, it also focused on the histopathological appearance of the wound for 1, 2 and 4 weeks with regard to polymorphonuclear cells, fibroblast and epithelialization. Findings related that in terms of color, no significant differences were observed during the 1st, 2nd and 4th week on both control and experimental group A because the pink color was consistently present. Significant improvement in size from the 1st to 4th week of the control and experimental group occurred because significant decrease in size from the 2nd to the 4th week. Meanwhile there was a significant difference in the gross appearance from the 1st to 4th week of the control group because the edema became normal on the 2nd and 4th weeks. It was therefore concluded that the experimental group is effective in decreasing the size, normalizing the gross appearance, decreasing the absence of polymorphonuclear cells and increasing epithelialization. On the other hand, it cannot lessen the fibroblast. Finally effect of experimental is almost similar with control except on size.

mehdi.honarparvar@yahoo.com