

ABSTRACT

Periodontal curettage accomplishes the removal of the chronically inflamed granulation tissue formed in the lateral wall of the periodontal pocket. Periodontal pack was applied to protect the wound and control bleeding. Iodine leaf were used as an alternative material because it contains enzymes such as flavonoid which can help to accelerate the wound healing. The purpose of this study is to determine the effect of 10% iodine leaf extract gel for the process of wound healing after periodontal curettage.

True experimental laboratory research with post-test only control group design was conducted on 20 wistar rats and divided into two groups: periodontal pack and periodontal pack with 10% iodine leaf extract gel groups. Healing after periodontal curettage is performed from the average number of fibroblasts analyzed with One-Way ANOVA test.

The results showed that the average number of fibroblasts in the periodontal pack group day 5 and day 7 were 35.20 and 49.60, besides in the periodontal pack group with iodine leaf extract gel on day 5 and day 7 were 45.80 and 50.80. One-Way ANOVA showed that $p > 0.05$, it means that 10% iodine leaf extract gel effects to the process of healing after periodontal curettage, and there were significant differences between the mean number of fibroblasts between the groups in this study.

It concluded that 10% iodine leaf extract gel effects to the increase number of fibroblasts in the wound healing process after periodontal curettage in wistar rats.

Keywords: *Iodine Leaf Extract Gel, Periodontal Curettage, Wound Healing, Fibroblasts*

ABSTRAK

Kuretase merupakan tindakan mengerok jaringan granulasi yang terbentuk pada dinding lateral gingiva poket periodontal. Pasca kuretase, periodontal pack diaplikasikan untuk menjaga daerah luka agar tetap bersih dan mengontrol perdarahan. Pemberian daun yodium dapat menjadi alternatif karena mengandung flavonoid yang dapat membantu mempercepat penyembuhan luka. Tujuan penelitian ini adalah mengetahui pengaruh pemberian gel ekstrak daun yodium 10% terhadap proses penyembuhan luka pasca kuretase.

Penelitian laboratorium true experimental dengan rancangan post-test only control group design dilakukan pada 20 ekor tikus wistar dan dibagi dua kelompok: kelompok periodontal pack dan kelompok periodontal pack dengan penambahan gel ekstrak daun yodium 10%. Penyembuhan pasca kuretase dilihat dari rerata jumlah fibroblas yang dianalisis dengan Uji One-Way Anova.

Hasil penelitian menunjukkan rerata jumlah fibroblas pada kelompok periodontal pack hari ke-5 dan hari ke-7 adalah 35.20 dan 49.60, sedangkan pada kelompok periodontal pack dengan penambahan gel ekstrak daun yodium hari ke-5 dan ke-7 adalah 45.80 dan 50.80. Uji One-Way Anova didapatkan hasil $p > 0.05$, artinya terdapat perbedaan rerata jumlah fibroblas yang signifikan antar kelompok penelitian.

Simpulan hasil penelitian ini adalah terdapat pengaruh pemberian gel ekstrak daun yodium 10% terhadap jumlah fibroblas pada proses penyembuhan pasca kuretase pada tikus wistar.

Kata kunci: Gel Ekstrak Daun Yodium, Kuretase, Penyembuhan Luka, Fibroblas