

INTISARI

Pengobatan ulkus traumatikus pada pasien DM saat ini adalah *Aloclair* yang mengandung asam hialuronat dan *aloe vera*. *Aloclair* selain berefek samping reaksi hipersensitifitas, harganya pun mahal. Oleh karena itu perlu dikembangkan jenis obat tradisional berbahan tumbuhan yang lebih aman dan terjangkau seperti lidah buaya dan getah pisang ambon. Tujuan penelitian ini adalah mengetahui pengaruh pengolesan gel ekstrak getah batang pisang ambon dan daging lidah buaya terhadap penyembuhan ulkus traumatikus pada tikus DM.

Penelitian laboratorium *true experimental* dengan rancangan *the post test-only control group design* dilakukan pada 30 ekor tikus *male wistar* dan dibagi lima kelompok: kontrol negatif, positif, kontrol gel ekstrak lidah buaya, getah batang pisang Ambon serta kombinasi keduanya. Penyembuhan ulkus traumatikus dilihat dari jumlah fibroblas yang dianalisis dengan uji *One Way Anova* dan *post hoc LSD*.

Hasil penelitian menunjukkan jumlah fibroblas pada kontrol negatif adalah 4,88, kontrol positif 7,28; kelompok gel ekstrak lidah buaya 58,20, kelompok gel ekstrak getah batang pisang Ambon 5,20, dan kelompok kombinasi gel ekstrak 41,36. Uji *One Way Anova* menghasilkan nilai $p= 0,000$ artinya terdapat perbedaan jumlah fibroblas yang bermakna pada dua kelompok. Jumlah fibroblas kelompok gel ekstrak lidah buaya dengan kelompok kombinasi berbeda dengan jumlah fibroblas kelompok kontrol negatif ($p<0,05$). Namun jumlah fibroblas kelompok gel ekstrak getah batang pisang Ambon tidak berbeda dengan jumlah fibroblas kelompok kontrol negatif ($p>0,05$).

Kesimpulan penelitian adalah terdapat pengaruh pengolesan gel ekstrak batang pisang ambon, gel ekstrak lidah buaya dan gel ekstrak kombinasi terhadap jumlah sel fibroblas dalam proses penyembuhan ulkus traumatikus pada tikus wistar DM.

Kata kunci: Gel Ekstrak Lidah Buaya, Getah Batang Pisang Ambon, Ulkus Traumatikus.

ABSTRACT

Today treatment of traumatic ulcers in diabetic patients is Aloclair that's containing hyaluronic acid and aloe vera. Aloclair had side effects a hypersensitivity reaction, and its price was also expensive. Therefore, it was necessary to develop the type of traditional drugs made from plants that are safer and more affordable such as Aloe vera and Ambon banana sap. This study aimed to influence the smearing of Ambon banana stem sap and Aloe vera flesh gel extract to the traumatic ulcer healing in diabetic rats.

True experimental laboratory research with the post-test-only control group design was conducted on 30 male Wistar rats that were divided into five groups: negative and positive control, aloe vera gel extract, Ambon banana stem sap, and combination of both. Traumatic ulcer healing has been seen from the number of fibroblasts that then were analyzed by One Way Anova and post hoc LSD.

The results showed the number of fibroblasts in the negative controls were 4.88, positive control 7.28; aloe vera gel extract 58.20, Ambon banana stem sap gel extract 5.20, and the combination of both gel extract 41.36. One Way Anova resulted p -value = 0.000 means there are at least a significant difference in the number of fibroblasts in the two groups. The number of fibroblasts of aloe vera gel extracts and combinations groups are different with the number of fibroblasts in negative control group ($p < 0.05$). But the number of fibroblasts in Ambon banana stem sap gel extract did not differ with the number of fibroblasts in negative control group ($p > 0.05$).

Conclusions of this research there was an effect of smearing Ambon banana stem gel extract, aloe vera gel extract and the combination those extracts to the number of fibroblasts in the process of traumatic ulcer healing in rats wistar diabetic.

Keywords: Aloe Vera, Ambon Banana Stem Sap Gel Extract, Traumatic ulcers.