

THE COMBINATION OF HYALURONATE-IODINE COMPLEX AND NEGATIVE PRESSURE THERAPY ON NON-HEALING DIABETIC WOUNDS



Sobotka L, Borkovcova J, Smahelova A. 3rd Department of Internal Medicine, Medical Faculty-Charles University and Faculty Hospital, Hradec Kralove, Czech Republic



Introduction:

Healing of diabetic ulcerations is besides others, dependent on presence and quality of granulation tissue. The positive effect of hyaluronan iodine complex (HI) was confirmed in several studies¹⁻³. The aim of present study was to receive the initial results of combined HI and negative pressure (NP) therapy in diabetic wounds.

Methods:

After debridement the wounds were covered by 5 layers of sterile gauze, soaked with HI complex and by several layers of dry gauze.

Constant negative pressure (-150 mm Hg) was installed under transparent plastic foil. This treatment was switched to sole HI application after 3 weeks.

Results:

Number of patients	12
Time to granulation tissue formation	1.5 ± 1.4 weeks
Wound area after 3 weeks of therapy	45.4 ± 14.4 %



after NP & HI - day 21

Conclusion:

Combination of negative pressure therapy with hyaluronate-iodine complex is promising approach to the treatment of non-healing diabetic wounds.



before



NP & HI therapy



after NP & HI - day 17



before



NP & HI therapy



after NP & HI - day 28

References:

- 1.Sobotka, L., Amlani, A., et al Hyiodine in action Diabetic Foot Supplement, 2011;14(3):1-4
- 2.Cutting, K. Wound healing through synergy of hyaluronan and an iodine complex JWC, 2011;20(9):424-430
- 3.Cutting K, Amlani A, Barlow Kearsley E. Hyiodine in action - The journey continues. Diabetic Foot Supplement 2011;14(4):1-4

This study was supported the program PRVOUK P37/12 Czech Republic.