THE COMBINATION OF NEGATIVE PRESSURE AND HYALURONATE-IODINE DRESSING IN COMPLICATED ABDOMINAL WOUNDS





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Introduction:

Large wound dehiscence is serious surgical problem. We described effective effect of hyaluronan iodine (HI) complex in the treatment of these wounds^{1,2}. In the present study we assessed the effect of combination of negative pressure NP therapy with HI complex.

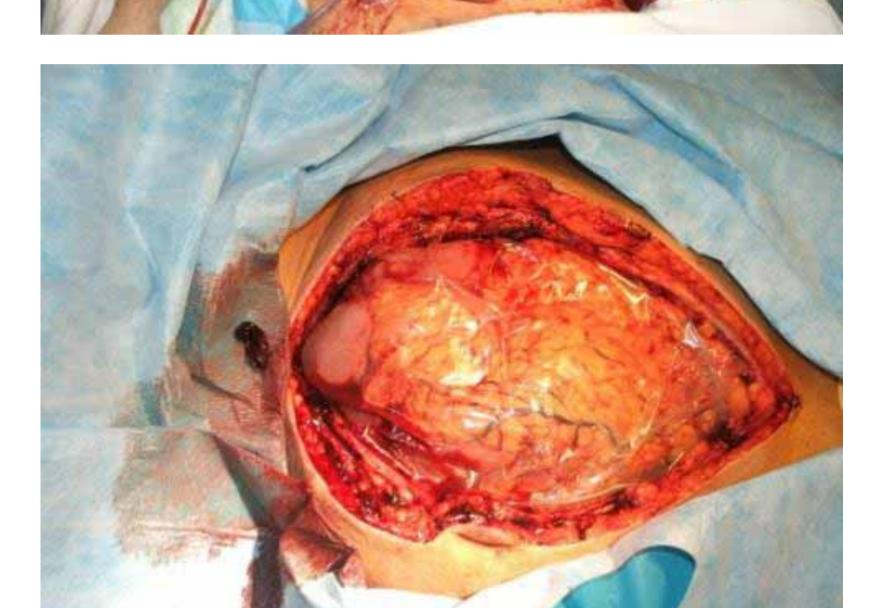
Methods:

The patients with extra-large abdominal wounds were included to the study. The wound was covered by gauze saturated with HI complex; then special gauze for negative pressure therapy was put to the wound and the wound was shielded with transparent plastic dressing connected with negative vacuum pump. The dressing was changed once per 2-4 days.

Results:

Number of patients	12
Diameter of wounds	248 ± 185 cm ²
Time to granulation tissue formation	1.5 ± 1.4 weeks
Time to granulation tissue formation	12.5 ± 5.4 days
Complete wound healing	64 ± 84 days

Wound dehiscence after complicated acute pancreatitis





gauze with HI complex



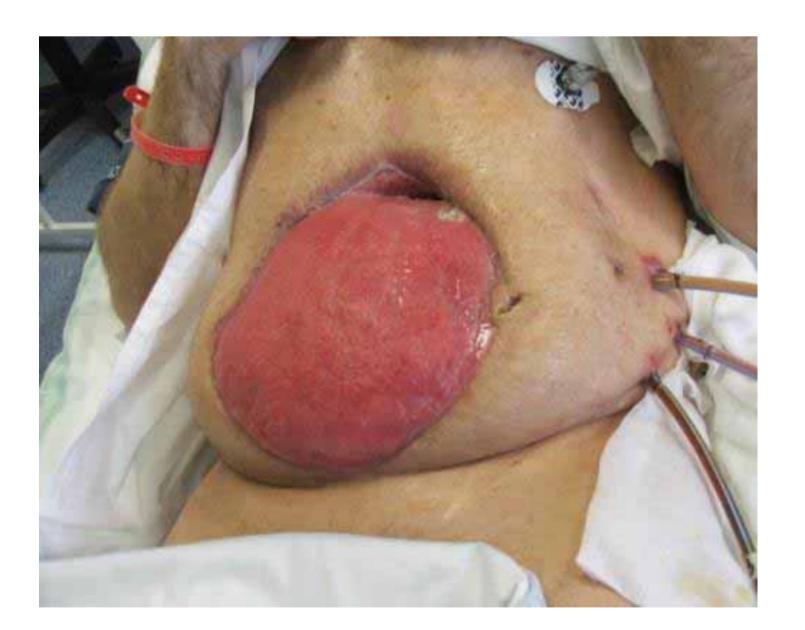
gauze for NP therapy



transparent folia



negative pressure & HI



granulation tissue



reduced wound size



physiotherapy



Conclussion:

The positive effect of NP & HI could be due to combination of negative pressure, biologic effect of hyaluronate and anti-microbial effect of iodine.

References:

1.Sobotka L. et al. Successful treatment of surgical abdominal wounds complicated by multiple bowel fistulas with a combination of total parenteral nutrition, hyaluronan-iodine complex and delayed surgery: results of a monocentric experience Nutritional Therapy & Metabolism, 2008;26(4):177-183 2.Brenes R. et al. Hyaluronate-iodine complex. A new adjunct for the management of complex sternal wounds after a cardiac operation Arch Surg, 2011;146(11):1323-1325

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