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

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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:

<table>
<thead>
<tr>
<th>Number of patients</th>
<th>12</th>
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<tbody>
<tr>
<td>Time to granulation tissue formation</td>
<td>1.5 ± 1.4 weeks</td>
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<tr>
<td>Wound area after 3 weeks of therapy</td>
<td>45.4 ± 14.4 %</td>
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</tbody>
</table>

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

References:
2. Cutting, K. Wound healing through synergy of hyaluronan and an iodine complex JWC, 2011;20(9):424-430

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