

[EP198] THE TREATMENT OF LARGE ABDOMINAL DEHISCENCES WITH NEW COMBINED SELF-ADHERENT ANTIMICROBIAL WOUND DRESSING

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Aim: Large wound dehiscence is serious surgical problem. The newly developed self-adherent hyaluronan-octenidine (SA-HO) wound dressing based on hydrophilic and wound healing influence of hyaluronic acid and antimicrobial effect of octenidine has shown positive effects on healing of venous ulcers. The aim of this study was to assess the effect of this wound dressing on large abdominal wound dehiscence.

Method: The effect of (SA-HO) wound dressing was assessed in nine subjects with large dehiscent postoperative wounds. The SA-HO dressing was placed directly to the dehiscent wound; then it was covered by sterile gauze. The bandage was controlled daily and it was changed after each four days or when loose adherence to wound was recorded. The wound diameter, and characteristics as well as dressing frequency and length of treatment were recorded.

Results / Discussion:

At the onset of study, the mean area of dehiscent wounds was $117 \pm 63 \text{ cm}^2$. The dressing was changed after 3.3 ± 1.5 days. It adhered adequately to wound bed, which was sign of good drainage. Five wounds healed completely within 2 months, and the area of 4 wounds decreased by $63 \pm 18\%$. After one month all wounds were covered by granulation tissue without any biofilm or indicators of active wound infection. No side effects were documented during the study.

Number of patients	Wound area [cm ²]	
	Start of treatment	After 2 months
5	73±38	healed
4	173±36	65±14

Table 1: Decrease of wound area (cm²)

Conclusion:

The new SA-HO wound dressing, based on improved drainage system and hyaluronan-octenidine combination of is favorable method for the treatment of large surgical wounds. This study was supported by a program (PROGRES Q40/12 UK Czech Republic).