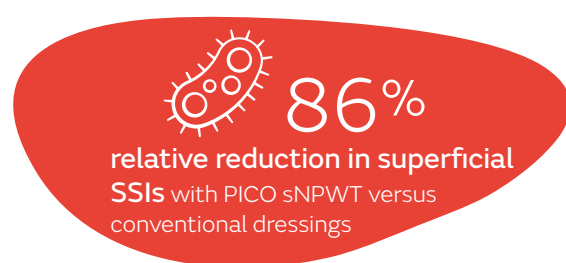
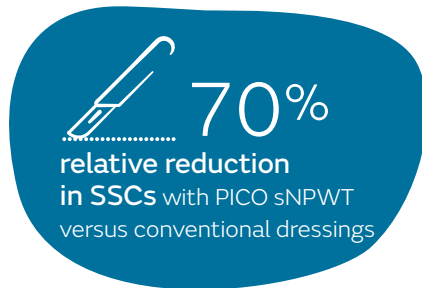


Use of PICO[®] Single Use Negative Pressure Wound Therapy System (sNPWT) significantly reduced the incidence of surgical site complications (SSCs) compared with conventional dressings in sternotomy patients

+ Plus points

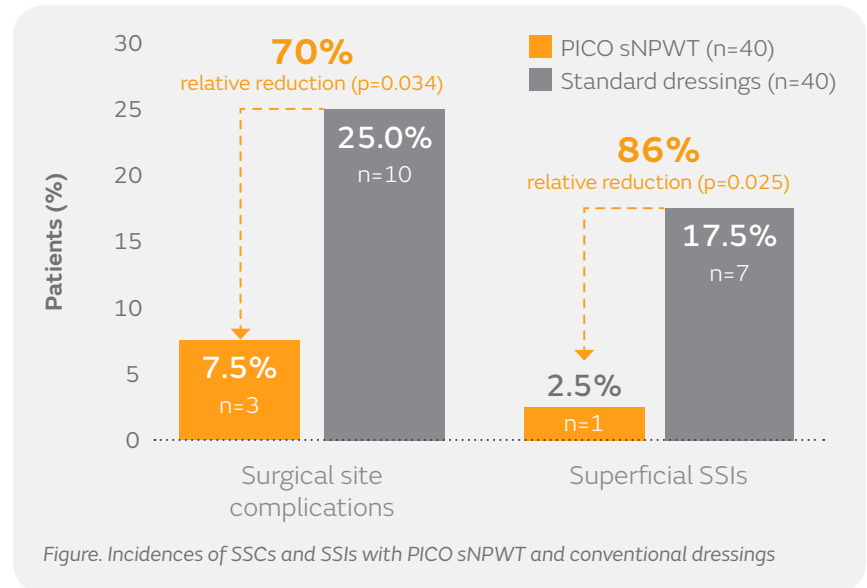


Overview

- An open-label, prospective study (6-week follow up) comparing the incidence of dehiscence and surgical site infections (SSIs) in sternotomy patients at a hospital in Poland
- Patients received either PICO sNPWT (n=40) or conventional dressings (n=40) immediately after coronary artery bypass grafting (CABG)
- Patients in the PICO sNPWT group were slightly older than those in the conventional dressings group (mean age 66 vs 62 years, $p=0.044$); most patients were male (78.8%)
- Mean BMI was 29.2kg/m^2 and a large proportion of patients had BMI $>30\text{kg/m}^2$ (43.8%)

Results

- Compared with conventional dressings, PICO sNPWT had:
 - Significantly lower incidences of SSCs ($p=0.034$; Figure) and superficial SSIs ($p=0.025$; Figure)
 - No superficial SSIs requiring antibiotics compared with 4 (10.0%) for conventional dressings ($p=0.04$)
- Due to the reduction in SSCs, no cases of skin necrosis were reported in the PICO sNPWT group compared with 12 cases (30.0%) in the conventional dressings group ($p=0.0002$)



Conclusion

Prophylactic use of PICO sNPWT significantly reduced the incidences of SSCs and superficial SSIs compared with conventional dressings in patients with closed sternotomy wounds.

Citation

*Witt-Majchrzak A, Żelazny P, Snarska J. Preliminary outcome of treatment of postoperative primarily closed sternotomy wounds treated using negative pressure wound therapy. *Pol Przegl Chir*. 2015;86(10):456-465. Available at: [De Gruyter Open](#)

Important Safety Information

The PICO pumps contain a MAGNET. Keep the PICO pumps at least 4 inches (10 cm) away from other medical devices at all times. As with all electrical medical equipment, failure to maintain appropriate distance may disrupt the operation of nearby medical devices. For full product and safety information, please see the Instructions for Use.