


+ Evidence in focus

Publication summary: Holt R, et al. *Br J Hospital Med* (2015)*

PICO[◇] Single Use Negative Pressure Wound Therapy System (sNPWT) reduced dehiscence and healing time following oncoplastic breast surgery compared with standard care

+ Plus points

 **75% relative reduction in the incidence of dehiscence** with PICO sNPWT compared with standard care



Reduction in healing time with PICO sNPWT compared with standard care

Overview

- Prospective, non-randomised, open-label, case control study in 24 patients with breast cancer requiring complex bilateral oncological surgery
 - Mean BMI was 31.1kg/m²
- Three patients underwent Wise pattern skin sparing mastectomy with immediate implant or inferior dermal flap technique, and 21 patients underwent therapeutic mammoplasty
- Following the procedure, PICO sNPWT was applied for 6 days
- Patients underwent simultaneous symmetrising breast reduction of the contralateral breast, which was treated with standard care
- Assessments were performed at days 6 and 12 post-surgery

Results

- Overall, there was a 75% relative reduction in the incidence of dehiscence with PICO sNPWT compared with standard care at day 12 (4.2 vs 16.7%; Figure)
- At day 12 in the therapeutic mammoplasty group, dehiscence was observed in 0% of breasts treated with PICO sNPWT compared with 14.3% of those with standard care
- Mean wound healing time (excluding one patient with a non-wound related complication) was 10.7 days for PICO sNPWT compared with 16.1 days with standard care
- Nurses reported observing improved wound appearance for breasts treated with PICO sNPWT compared with standard care

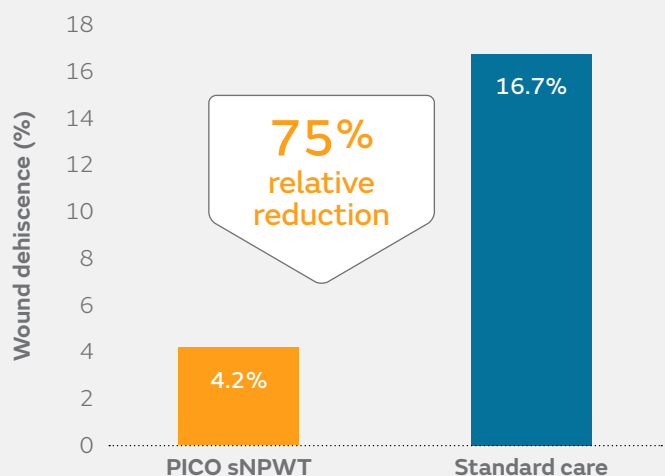


Figure. Percentage of overall wound dehiscence in breasts treated with PICO sNPWT and standard care

Conclusions

PICO sNPWT helped to reduce the incidence of dehiscence and decrease the time to heal incision wounds following complex oncoplastic breast surgery compared with standard care.

Citation

*Holt R, Murphy J. PICO[◇] incision closure in oncoplastic breast surgery: a case series. *Br J Hospital Med* 2015;76(4):217–223.

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