

**PICO<sup>◇</sup> Single Use Negative Pressure Wound Therapy System (sNPWT) reduced post reduction mammoplasty wound complications, particularly dehiscence, compared with standard care**

**+ Plus points**

**PICO sNPWT significantly reduced wound healing complications versus standard care (p=0.004)**

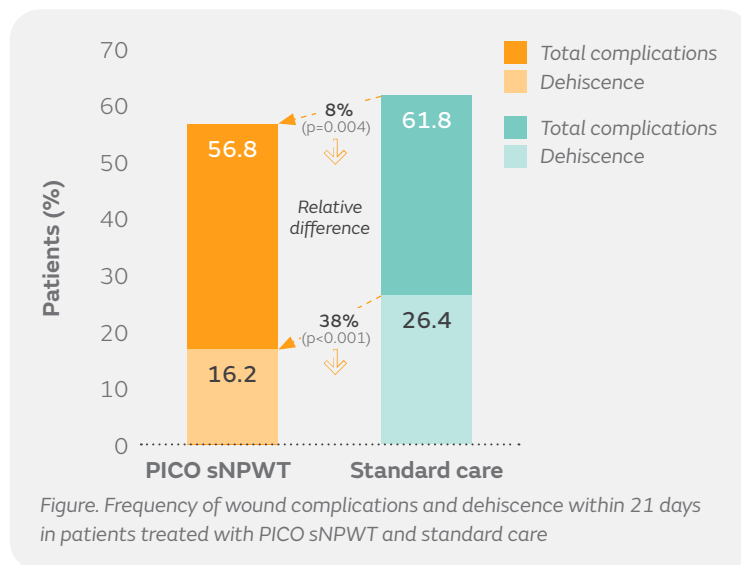
**38% relative reduction in incidence of dehiscence with PICO sNPWT versus standard care (p<0.001)**

**Overview**

- Prospective, within-patient, randomised controlled, open-label, multicentre study assessing the prevalence and type of healing complications in patients who had elective bilateral reduction mammoplasty
- Patients (N=200) were recruited and randomised within-patient (i.e. to right or left breast) to be treated with either PICO sNPWT or standard dressings for up to 14 days

**Results**

- PICO sNPWT significantly reduced wound healing complications within 21 days post-operatively compared with standard care (p=0.004; Figure)
  - This was also significant after sensitivity analysis (39.7% with PICO sNPWT versus 44.7% with standard care; p=0.033) conducted to allow for possible design overestimation of delayed healing
- Incidence of dehiscence within 21 days of surgery was significantly reduced with PICO sNPWT versus standard care (p<0.001; Figure)
  - This effect was greatest in patients in high BMI categories (>25kg/m<sup>2</sup>)



**Conclusions**

PICO sNPWT helped to reduce wound healing complications, particularly the incidence of wound dehiscence, when applied prophylactically to closed incision reduction mammoplasty surgical wounds compared with standard care. This effect on the incidence of dehiscence was greatest in patients in high BMI categories.

**Citation**

\*Galiano RD, Hudson D, Shin J, et al. Incisional negative pressure wound therapy for prevention of wound healing complications following reduction mammoplasty. *Plast Reconstr Surg Glob Open*. 2018;6(1):e1560.

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