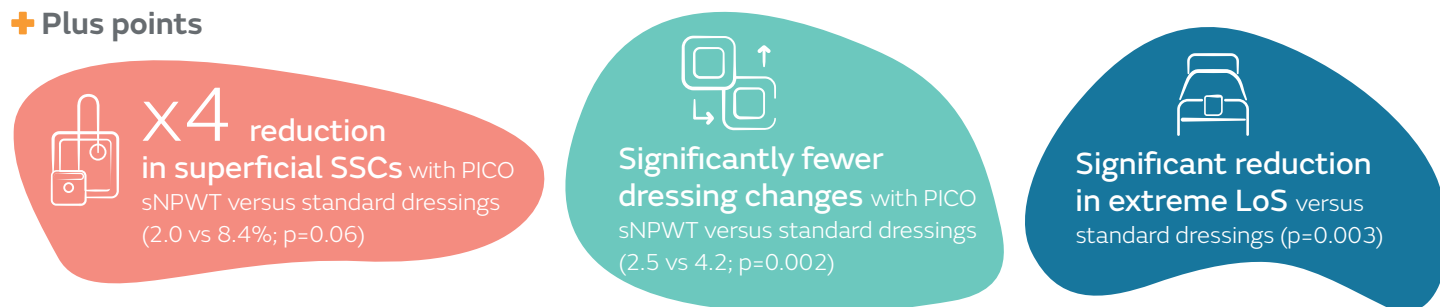


PICO Single Use Negative Pressure Wound Therapy System (sNPWT) helps to reduce the incidence of surgical site complications (SSCs) and length of stay (LoS) compared with standard dressings in primary hip and knee arthroplasty patients

+ Plus points

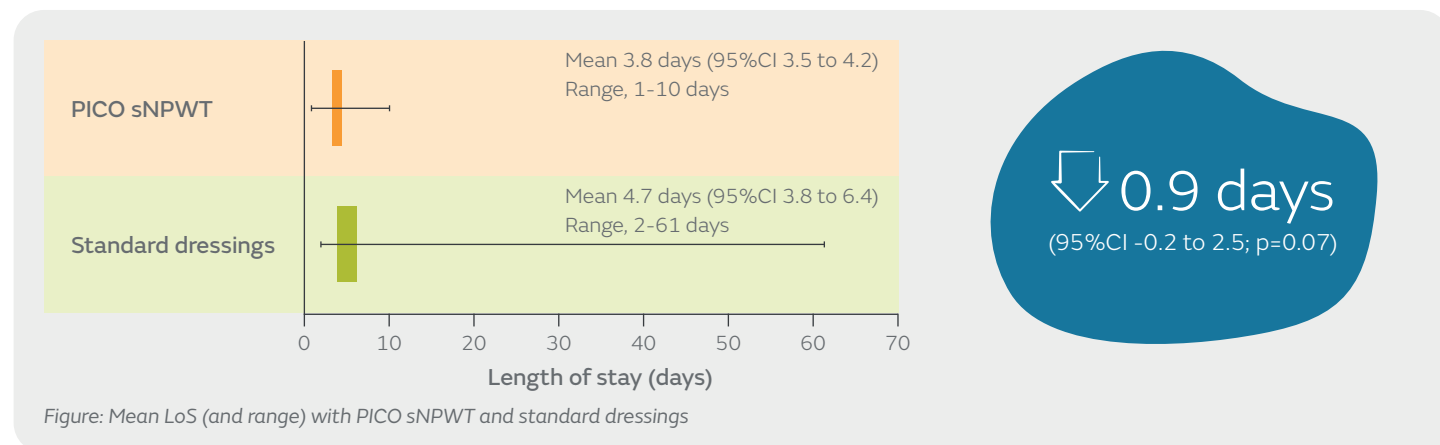


Overview

- A single centre, open-label, randomised, parallel-group, controlled trial in patients undergoing elective primary total hip or knee arthroplasty in the UK
- Patients (mean age, 69 years) were recruited and randomised to either PICO sNPWT, used prophylactically (n=102), or standard dressings (n=107)

Results

- SSC incidence was reduced more with PICO sNPWT than with standard dressings at 6 weeks follow-up (2.0 vs 8.4%; p=0.06)
- Compared with standard dressings, PICO sNPWT redistributed grades of peak post-surgical wound exudate (Grade 4 exudate: 4 vs 16%; p=0.007) and required significantly fewer dressing changes (2.5 vs 4.2; p=0.002)
- Use of PICO sNPWT benefited high-risk patients with American Society of Anesthesiologists score ≥ 3 and BMI $\geq 35\text{kg/m}^2$
- Mean LoS was reduced by 0.9 days with sNPWT compared with standard dressings (Figure)
 - PICO sNPWT also helped to significantly reduce extreme LoS (≥ 13 days; 0 vs 2%; p=0.003)



Conclusions

PICO sNPWT helped to reduce the incidence of wound complications and reduce LoS (including extreme LoS) compared with standard dressings in primary hip and knee arthroplasty. The authors suggest that reductions in the incidence of wound complications are a result of reducing oedema and stabilising wound edges.

Citation

*Karlakki SL, Hamad AK, Whittall C, Graham NM, Banerjee RD, Kupler JH. Incisional negative pressure wound therapy dressings (iNPWTd) in routine primary hip and knee arthroplasties. A randomised controlled trial. *Bone Joint Res*. 2016;5:328–337.

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