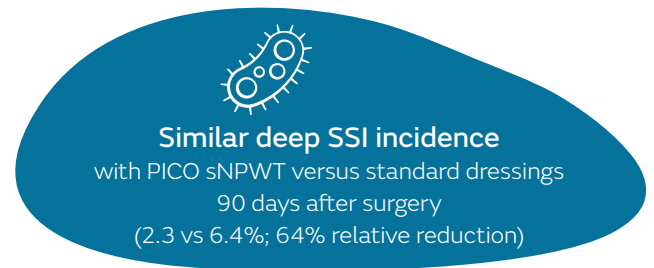
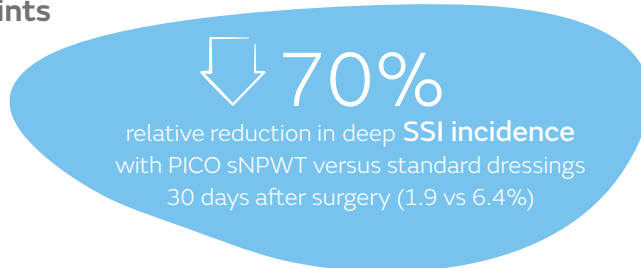


Lower incidence of surgical site infections (SSIs) with use of PICO[®] Single Use Negative Pressure Wound Therapy System (sNPWT) than with standard dressings in patients undergoing hip fracture surgery

Masters J, Cook J, Achten J, Costa ML. A feasibility study of standard dressings versus negative-pressure wound therapy in the treatment of adult patients having surgical incisions for hip fractures: the WHISH randomized controlled trial. *Bone Joint J.* 2021;103-B(4):755–761.

Available at: [The Bone and Joint Journal](#) 

Keys points

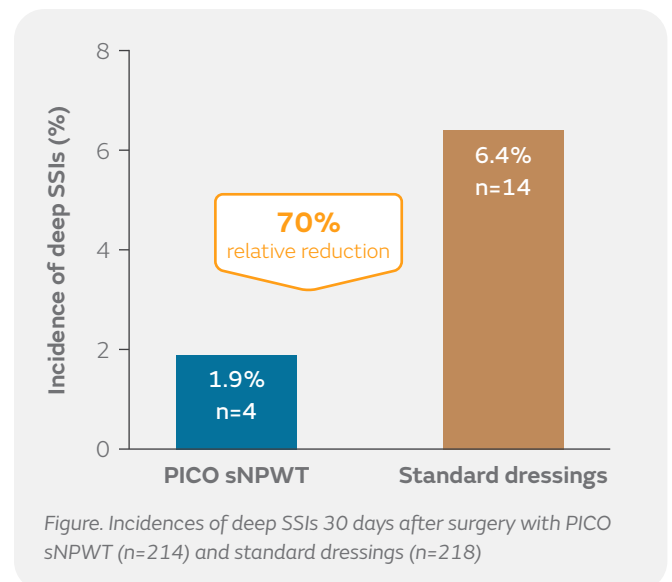


Overview

- A multicentre, randomised, controlled feasibility trial conducted in patients aged >65 years undergoing hip fracture surgery
- Patients received either PICO sNPWT (n=214) or standard dressings (n=218)
 - Most patients received cemented hemiarthroplasty (50.2%) or internal fixation with sliding hip screws (29.6%)
 - Most patients (71%) had an American Society of Anesthesiologists (ASA) score ≥ 3
- The primary outcome was incidence of deep SSIs at 30 and 90 days after surgery; health-related quality of life (EQ-VAS score and EQ-5D index) after 120 days was also assessed
- SSIs were diagnosed according to the Centers for Disease Control and Prevention criteria

Results

- Deep SSI incidence was lower with PICO sNPWT than with standard dressings at 30 days post surgery (1.9 vs 6.4%; risk ratio, 0.29, 95% CI: 0.1 to 0.85; Figure)
 - Similar incidences were reported in respective groups after 90 days (2.3 vs 6.4%; 64% relative reduction)
 - Nine patients with deep SSIs underwent reoperation during the study period
- Health-related quality of life scores were similar with PICO sNPWT and standard dressings at 120 days after surgery, in respective groups
 - EQ-VAS: 67.7 (n=163) and 69.1 (n=171)
 - EQ-5D: 0.46 (n=206) and 0.48 (n=209)



Conclusions

Patients undergoing hip fracture surgery had a lower incidence of deep SSIs with prophylactic use of PICO sNPWT than with standard dressings at 30 and 90 days post surgery.

For detailed product information, including indications for use, contraindications, precautions and warnings, please consult the product's applicable Instructions for Use (IFU) prior to use.