✚ Evidence in focus

Independent meta-analysis by the International Consensus Meeting for Orthopaedics demonstrates that PICO◊ sNPWT significantly reduces the risk of surgical site infection (SSI) following orthopaedic surgery compared to standard of care

Smith+Nephew

3rd meeting of the International Consensus Meeting 2025. May 8–10, Istanbul, Turkey.

Overview

- At the 3rd International Consensus Meeting (ICM) for Orthopaedics, the use of post-surgical Single Use Negative Pressure Wound Therapy (sNPWT), which includes PICO sNPWT, was debated
  - The ICM is voted on by over 1200 orthopaedic surgeons from around the world
- "Is there a role for the use of incisional negative pressure wound therapy (iNPWT) in patients undergoing major orthopaedic surgery?"
  - To effectively answer this question and assess the need for PICO sNPWT, members of the ICM conducted an independent systematic literature review and meta-analysis

Methodology

14 RCTs

4,100 patients

>1200 orthopaedic surgeons

Meta-analysis

Combination of the results from previous studies. Meta-analysis pools the data and generates confidence intervals

Vote

Over 1200 orthopaedic surgeons from around the world agreed on a consensus for use of sNPWT based on the results of the independent meta-analysis

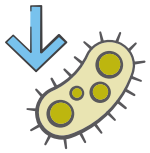
Results

"Is there a role for the use of iNPWT in patients undergoing major orthopaedic surgery?"

"YES...

Consider using iNPWT as a measure to prevent SSI, periprosthetic joint infection (PJI), and fracture related infections (FRI) in patients undergoing major orthopaedic surgery"

A subanalysis of PICO only studies from the independent meta-analysis found a



45%

lower risk of SSI, PJI and FRI with **PICO sNPWT***

Conclusion

Based on the results of an independent meta-analysis, the International Consensus Meeting for Orthopaedics recommend the use of iNPWT to minimise the risk of SSI in adult patients with primarily closed surgical incisions after lower extremity/acetabular fracture surgery and joint arthroplasty of the hip and knee. In a subanalysis, PICO sNPWT was demonstrated to reduce the relative risk of surgical site SSI, PJI and FRI by 45% following orthopaedic surgery compared to standard of care.

Scan or click the QR code to read the ICM synopsis

*In clean surgery.

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