

⊕ Evidence in focus

Publication summary: Hyldig N, et al. BJOG (2019)*

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PICO[◊] Single Use Negative Pressure Wound Therapy System (sNPWT) helped to reduce the risk of surgical site infections (SSIs) compared with standard dressings in women with pre-pregnancy BMI $\geq 30\text{kg/m}^2$ undergoing cesarean section

⊕ Plus points



Overview

- An open-label, pragmatic, randomized study conducted at five centers in Denmark
- Women undergoing elective or emergency cesarean section with a pre-pregnancy BMI $\geq 30\text{kg/m}^2$ (mean age, 32 years)
- Patients received either PICO sNPWT (n=432) or standard dressings (n=444)
- Dressings were left in place for approximately five days with PICO sNPWT and at least 24 hours with standard dressings

Results

- Use of PICO sNPWT significantly reduced the incidence of SSIs compared with standard dressings (4.6 vs 9.2%; Figure)
 - Number needed to treat was 22
- Results were similar after adjustment for risk factors including pre-pregnancy BMI $\geq 35\text{kg/m}^2$
- Significantly fewer women had wound exudate with PICO sNPWT than those using standard dressings (22.4 vs 32.9%; p=0.001)
 - Relative risk reduction with PICO sNPWT versus standard dressings was 31.0%
 - Number needed to treat was 10
- Deep SSIs, dehiscence, or self-rated health status were similar in both groups

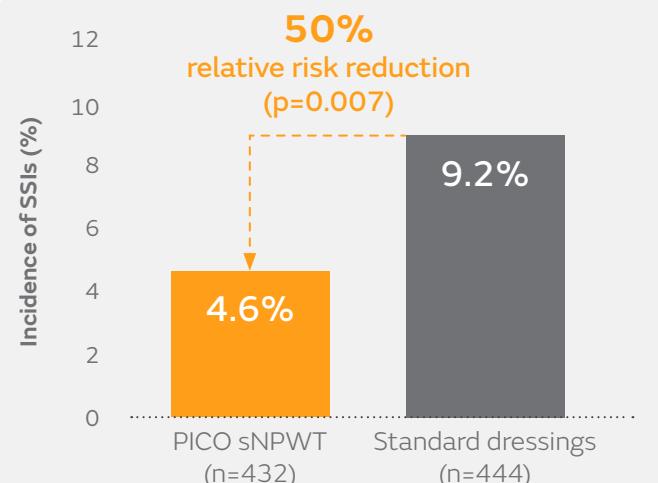


Figure. Incidences of SSIs with PICO sNPWT and standard dressings in obese women undergoing cesarean section

Conclusion

Use of PICO sNPWT helped to significantly reduce the incidences of SSIs and wound exudate compared with standard dressings in high-risk, obese women with pre-pregnancy BMI $\geq 30\text{kg/m}^2$ undergoing cesarean section.

Citation

*Hyldig N, Vinter CA, Kruse M, et al. Prophylactic incisional negative pressure wound therapy reduces the risk of surgical site infection after cesarean section in obese women: A pragmatic randomised clinical trial. BJOG. 2019;126:628-635.

Available at: [British Journal of Obstetrics and Gynaecology](https://www.smith-nephew.com/education)

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