✚ Evidence in focus

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

Smith+Nephew

Use of PICO◊ Single Use Negative Pressure Wound Therapy System (sNPWT) after caesarean section helped to reduce surgical site infections (SSIs) compared to standard dressings with similar costs for pre-pregnancy BMI ≥30kg/m² and estimated savings for pre-pregnancy BMI ≥35kg/m²

✚ Plus points

Helps to reduce SSIs with similar costs
compared to standard dressings for pre-pregnancy BMI ≥30kg/m²

Cost savings
for pre-pregnancy BMI ≥35kg/m²

Overview

- A cost effectiveness evaluation of using PICO sNPWT to help prevent SSIs in obese women after elective or emergency caesarean section (pre-gestational BMI ≥30kg/m²)
- The analysis used data from a randomised controlled trial of obese women who received either PICO sNPWT (n=432) or standard dressings (n=444)[1]
- Costs were estimated using data from four Danish national databases and were analysed from a healthcare perspective using a time period of 3 months after childbirth

Results

- Estimated total healthcare costs per patient were similar with PICO sNPWT and standard dressings (Figure; p=0.81)
  - PICO sNPWT was dominant as it was more effective than standard dressings at helping to reduce SSIs
- Estimated costs per patient in women with pre-pregnancy BMI ≥35kg/m² were lower with PICO sNPWT than with standard dressings (Figure)

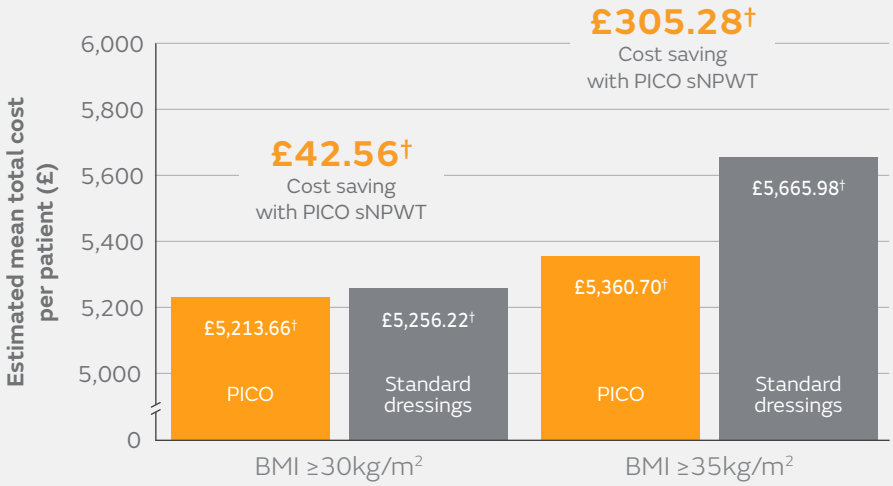

Figure. Estimated mean cost per patient with PICO sNPWT and standard dressings in obese women after caesarean section

† Costs based on a conversion rate of 0.8999 (EUR to GBP) in Decemeber 2021

Conclusion

Use of PICO sNPWT in obese women after caesarean section helped to reduce SSIs compared to standard dressings with similar estimated costs per patient for pre-pregnancy BMI ≥30kg/m² and estimated cost savings for pre-pregnancy BMI ≥35kg/m².

Citation

*Hyldig N, Joergensen JS, Wu C, *et al*. Cost-effectiveness of incisional negative pressure wound therapy compared with standard care after caesarean section in obese women: a trial-based economic evaluation. *BJOG*. 2019;126(5):619-627.
Available at: British Journal of Obstetrics and Gynaecology

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.

Reference: 1. Hyldig N, Vinter CA, Kruse M, *et al*. Prophylactic incisional negative pressure wound therapy reduces the risk of surgical site infection after caesarean section in obese women: a pragmatic randomised clinical trial. *BJOG*. 2019;126(5):628-635.

Smith+Nephew, Croxley Park, Building 5, Hatters Lane, Watford, Hertfordshire WD18 8YE. T +44 (0)1923 477100, F +44 (0)1923 477101.