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More obese women with pre-pregnancy BMI ≥30kg/m² were satisfied with caesarean section scar appearance using PICO<sup>⋄</sup> Single Use Negative Pressure Wound Therapy System (sNPWT) than standard dressings

## + Plus points





#### Overview

- A substudy of cosmetic outcomes for women who enrolled in an open-label, pragmatic, randomized study conducted at five centers in Denmark
- Women undergoing elective or emergency cesarean section with a pre-pregnancy BMI ≥30kg/m² (mean age, 32.5 years) received either PICO sNPWT or standard dressings
- Women completed questionnaires 30 days (n=309), 6 months (n=206) and 12 months (n=136) after surgery about scar quality (PSAS; Patient Scar Assessment Scale) and health-related quality of life (EQ-5D-5L)
- Specialists clinically assessed scars using the Manchester Scar Scale (MSS; postoperative quality) and the Stony Brook Scar Evaluation Scale (SBSES; long-term appearance)

#### Results

- Use of PICO sNPWT in the substudy reduced the incidence of SSIs compared with standard dressings (4.7 vs 9.9%; 52.5% relative reduction)
  - The incidence of minor wound dehiscence was similar in both groups
- Significantly more patients in the PICO sNPWT group were satisfied with overall scar appearance versus the standard dressings group at 30 days and 6 months post surgery (PSAS; Figure)
- Clinical assessment (SBSES) showed that significantly fewer women had hatch marks with PICO sNPWT versus standard dressings
  - At 6 months (20 vs 43%; p=0.002)
  - At 12 months (19 vs 36%; p=0.037)
- There were no significant differences in other scarring parameters (all assessment scales)



Figure. Patients who were satisfied with overall scar appearance at 30 days, 6 months and 12 months post surgery using PICO sNPWT and standard dressings (PSAS questionnaire) †Data for women attending the 6-month follow-up visit

#### **Conclusions**

Obese women undergoing cesarean section were significantly more satisfied with the appearance of scars within 6 months of surgery using PICO sNPWT than using standard dressings and fewer patients had hatch marks at 6 and 12 months post surgery

### Citation

\*Hyldig N, Möller S, Joergensen JS, Bille C. Clinical evaluation of scar quality following the use of prophylactic negative pressure wound therapy in obese women undergoing cesarean delivery: a trial-based scar evaluation. *Ann Plast Surg.* 2020 Jul 10. [Epub ahead of print]. Available at: Annals of Plastic Surgery

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