Evidence in focus


PICO° Single Use Negative Pressure Wound Therapy System (sNPWT) was more likely to achieve wound closure of lower extremity ulcers than traditional negative wound pressure therapy (tNPWT) in a real-world setting

Plus points

Compared with tNPWT, use of PICO sNPWT:

More likely to achieve closure for lower extremity ulcers

Wound closure more likely for both DFUs and VLUs

Overview

- A retrospective cohort study to assess wound closure rates with PICO sNPWT and tNPWT (V.A.C.™ Therapy System, KCI, San Antonio, TX, USA) in a real-world setting
- Electronic medical records were reviewed for 292 patients with lower extremity ulcers (diabetic foot ulcers [DFUs] and venous leg ulcers [VLUs]) who were treated with either PICO sNPWT or tNPWT (2014 to 2018)

Patients were matched based on initial wound surface area, demographics and comorbidities
- Mean age was 65 years and mean BMI was 32kg/m²
- For PICO sNPWT and tNPWT, respectively:
  - DFUs: 84 and 86 patients
  - VLUs: 62 and 60 patients
  - Mean wound surface area: 10.9 and 10.7cm²

Results

- Compared with tNPWT, wound closure rates with PICO sNPWT were significantly greater for the matched patient cohort:
  - All lower extremity ulcers (46.6 vs 34.9%; p=0.043; Figure)
    - DFUs: 41.7 vs 25.6%
    - VLUs: 53.2 vs 48.3%
  - Wounds treated with PICO sNPWT, rather than tNPWT, were 89% more likely to achieve closure (odds ratio 1.89; 95% CI: 1.02–3.51; p=0.042)

Wound closure (%) for both DFUs and VLUs

Conclusions

Lower extremity ulcers (DFUs and VLUs) of patients treated with PICO sNPWT were more likely to achieve wound closure than those treated with tNPWT in this retrospective analysis of real-world outpatient wound clinic data.

Figure. All patients with lower extremity ulcers achieving wound closure with PICO sNPWT (n=146) and tNPWT (n=146)

89% more likely to achieve lower extremity wounds closure

Citation


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.