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PICO^{\$} Single Use Negative Pressure Therapy System (sNPWT) reduced dressing change frequency, provided estimated cost savings compared with standard care and was most effective in hard-to-heal wounds of less than three months in duration



Dressing changes significantly reduced during and after PICO sNPWT use (p<0.001 vs standard care)



Predicted savings

for dressing change frequency and nursing resource costs

Overview

- A service evaluation at seven centres in Northern Ireland and the Republic of Ireland
- Wound healing and health economic impact (in UK sterling and Euros) of using PICO sNPWT on hard-to-heal wounds over 12 weeks (or until healing) were assessed
- Median wound duration was 3–6 months;
 36 wounds were included

- Eligible patients had:
 - Wounds >6 weeks in duration with no signs of clinical infection
 - <10% per week wound area reduction over 4 weeks</p>
 - No NPWT in the last 6 weeks or contraindications for NPWT
 - Ankle-brachial pressure index (ABPI) >0.8 and <1.3 for venous leg ulcers

Results

- Using PICO sNPWT, 20 of 36 wounds healed within 12 weeks (55.6%)
 - Mean healing time was 6.95 weeks
- Wound healing rate was greater for wounds with
 <3 months duration than those with ≥3 months duration (84.6 vs 71.4%; p=0.0125; Figure)
- Improvements in mean wound area per week with PICO sNPWT (-16.8%) continued after use (-18.9%)
- Dressing changes per week were less frequent with PICO sNPWT versus standard care (1.75 vs 3.56 changes; p<0.001)
 - They were also less frequent in the post PICO sNPWT phase (1.95 vs 3.56 changes per week; p<0.001)
- Use of PICO sNPWT was predicted to reduce costs versus standard care (Figure):
 - Total costs by 25% (£15,467) and 21% (€12,001)
 - Nursing resource costs by 59% (£31,494 and €27,517)

Predicted savings 100 with PICO sNPWT versus standard care 84.6% 80 21-25% 59% 71.4% (%) for nursing for total cost cost resource 5 of 7 Wound healing 60 40 33.3% 14.3% 20 1 of 7 <3 months 3-6 months 6-12 months >12 months

Figure. Wound healing by duration of wound at baseline and predicted cost savings with use of PICO sNPWT

Conclusions

In patients with hard-to-heal wounds, PICO sNPWT was most effective for wounds of <3 months in duration, helped to reduce dressing change frequency and was predicted to reduce nursing resource costs compared with standard care.

Citation

*McCluskey P, Brennan K, Mullan J, et αl. Impact of a single-use negative pressure wound therapy system on healing. JCN. 2020;34:36–43. Available at: Journal of Community Nursing

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.

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