Smith+Nephew

PICO◇ Single Use Negative Pressure Wound Therapy

Non-healing wounds Evidence launchpad

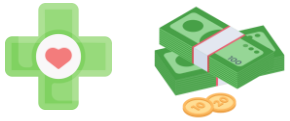
Hard-to-heal (vs. SOC)

VLU & DFU (vs. tNPWT)

Dehisced surgical (vs. SOC)

Study	Key findings	What it shows	Evidence in Focus

Hampton J, et al (2022)
• In-service evaluation
• 323 patients
 
	• Within 12 weeks of initiation of PICO sNPWT:
	  • 52% of the wounds healed
	  • Dressing change frequency reduced by a third (vs frequency before PICO sNPWT; 3.0 vs 4.7 times per week)
	  • Costs were estimated to have reduced by 30% to £651 per patient
		Demonstrates the value of PICO sNPWT for reducing dressing change frequency and overall costs versus SOC for hard-to-heal wounds.	Scan or click

McCluskey P, et al (2020) • Service evaluation • 36 wounds 	• Using PICO sNPWT, 20 of 36 wounds healed within 12 weeks (55.6%) • 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) • Dressing changes per week were less frequent with PICO sNPWT vs SOC (1.75 vs 3.56 changes; p<0.001) • Use of PICO sNPWT was predicted to reduce costs vs SOC	Demonstrates the value of PICO sNPWT being used earlier in the treatment pathway and increasing healing rates whilst reducing dressing change frequency and nursing resource costs versus SOC.	Scan or click
Dowsett C, et al (2017) • Prospective cohort study • 52 wounds 	• During PICO sNPWT treatment, wound area reduced by 13.4% more per week than pre-PICO sNPWT (p=0.006) • After the PICO sNPWT phase, wound area reduced by 9.6% more per week than pre-PICO sNPWT (p=0.001) • Implementing PICO sNPWT estimated to reduce total costs by 33.1% (£50,000) and release 119 nursing days over 26 weeks compared with predictions for SOC	Demonstrates the value of PICO sNPWT to improve the healing trajectory of hard-to-heal wounds whilst reducing overall costs and nursing time versus SOC.	Scan or click

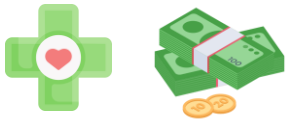
sNPWT = single use negative pressure wound therapy; SOC = standard of care; tNPWT = traditional negative pressure wound therapy.

Hard-to-heal (vs. SOC)

VLU & DFU (vs. tNPWT)

Dehisced surgical (vs. SOC)

Study	Key findings	What it shows	Evidence in Focus
Kirsner R, et al (2019) • Multicentre randomised controlled trial • 161 patients (101 VLU, 60 DFU) 	• Reduction in wound area was significantly greater with PICO sNPWT than tNPWT (88.7% vs 58.6%; p=0.003) • More patients had complete wound closure at 12 weeks with PICO sNPWT than with tNPWT (45% vs 22%; p=0.002) • Overall satisfaction with PICO sNPWT was significantly greater than with tNPWT	Demonstrates the value of PICO sNPWT for wound size reduction versus tNPWT.	Scan or click

Kirsner R, et al (2020)
• Economic analysis
• 161 patients (101 VLU, 60 DFU) 
	• For both ulcer types combined, switching from tNPWT to PICO sNPWT resulted in an estimated:
	  • Expected cost saving per patient of $7,756 at week 12 and $15,749 at week 26
	  • Decrease in total expected open ulcer weeks of 1.67 at week 12 and 5.31 at week 26
	  • Increase in percentage of expected closed ulcers of 22.6% at week 12 and 31.0% at week 26
		Demonstrates the economic value of PICO sNPWT versus tNPWT.	Scan or click

Patel A, et al (2019) • Retrospective cohort study • 292 patients (170 DFU, 122 VLU) 	• Compared with tNPWT, wound closure rates with PICO sNPWT were greater for all lower extremity ulcers (46.6% vs 34.9%; p=0.043) • Compared with tNPWT, wounds treated with PICO sNPWT were 89% more likely to achieve closure (p=0.042)	Demonstrates the value of PICO sNPWT at achieving overall wound closure in real-world settings versus tNPWT.	Scan or click

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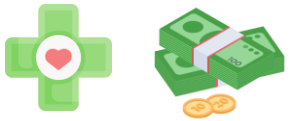
Hard-to-heal (vs. SOC) | VLU & DFU (vs. tNPWT) | Dehisced surgical (vs. SOC)

Study	Key findings	What it shows	Evidence in Focus

Hughes J, et al (2020)
• Service evaluation analysis
• 34 patients
 
	• After implementation of the PICO sNPWT pathway, 18 of 34 wounds (53%) healed within 12 weeks
	  • Mean time to healing was 6.1 weeks
	• Mean dressing change frequency reduced with use of PICO sNPWT from 4.7 to 3.2 times per week and remained at 3.3 times per week after returning to SOC
	• Estimated savings of £16,577 for total wound care treatment over 12 weeks with PICO sNPWT vs SOC
	  • Nursing time was reduced by 513 hours using PICO sNPWT compared with standard care
		Demonstrates the value of PICO sNPWT at aiding to heal hard-to-heal wounds, whilst reducing total costs and nursing time versus SOC.	Scan or click

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