

+ Smith+Nephew achieves new indications for the PICO System

PICO[◇]

Single Use Negative Pressure Wound Therapy System

The PICO Systems[†] have received clearance for use on closed surgical incisions, to aid in reducing the incidence of:¹

- Superficial and deep incisional surgical site infections for high-risk patients (Class I and II wounds)
- Post-operative seroma
- Dehiscence

[†] PICO 7 and 14 for up to 7 days of therapy

How we met this milestone:

To investigate the effectiveness of PICO sNPWT compared with standard dressings in helping to reduce the incidences of SSIs, seroma and dehiscence, a systematic literature review and meta-analysis was performed.¹

Randomized controlled trials (RCTs) and prospective observational studies that were published in English (studies had to include at least 10 patients) were identified and included.¹



Clinical Evidence presented:

Results from our systematic literature review and meta-analysis comparing use of PICO sNPWT with standard dressings in high-risk* patients with closed surgical incisions showed significant reduction in the incidence of SSIs:

SSIs:	Seroma:	Dehiscence:
<p>(Deep/Superficial) 17 studies, 2,870 patients</p> <p>Orthopedic: 4 Obstetrics/gynecology: 3 Abdominal: 8 Vascular: 1 Cardiac: 1</p>	<p>10 studies, 1,226 patients</p> <p>Obstetrics/gynecology: 2 Abdominal: 5 Vascular: 1 Breast: 2</p>	<p>7 studies, 1,207 patients</p> <p>Orthopedic: 1 Obstetrics/gynecology: 2 Abdominal: 1 Vascular: 1 Breast: 1 Cardiac: 1</p>

Why this is important:

Surgical site complications, such as surgical site infections (SSIs), seroma and dehiscence are a healthcare burden that can delay healing, causing increases in:²



Application of single-use negative pressure systems can help to prevent SSCs and ensure delivery of optimal and cost-effective patient care.² However, differences in product specifications between devices may lead to variations in clinical benefit.

Spot the difference:

Compare the indications for use of PICO[®] sNPWT with approved uses for the PREVENA[™] Incision Management System (3M KCI, Minnesota, USA):

Indication	PICO 7 sNPWT PICO 14 sNPWT	PICO 7Y sNPWT	PREVENA [™] 125 PREVENA [™] PLUS 125 System ³ (7 day unit)	PREVENA [™] 125 PREVENA [™] PLUS 125 System ⁴ (14 day unit)
Closed Surgical Incisions	✓	✓	✓	✓
Superficial SSI	✓	✓	✓	✗
Deep SSI	✓	✗	✗	✗
Post-operative Seroma	✓	✓	✓	✗
Surgical Dehiscence	✓	✓	✗	✗
Class I wounds	✓	✓	✓	✗
Class II wounds	✓	✗	✓	✗

Recently celebrating 10 years in clinical practice, the PICO System has been used on an estimated 2.3 million surgical incisions; helping to prevent surgical site complications.^{2,5}

The PICO System has helped reduce hospital stays and spared healthcare systems the associated costs of nursing time and resources.^{† 2,6,7}

† Compared to standard of care



This information is not intended to be used as a comparison of products' clinical safety and effectiveness.

*A study was considered to contain 'high risk' patients if more than 50% of patients treated with PICO sNPWT had ≥1 'intrinsic' or 'extrinsic' risk factor, as defined by SSI guidelines from the American College of Surgeons and Surgical Infection Society.

References: 1. Summary of clinical evidence on the use of PICO for the reduction of incidence of Surgical Site Complications. Available at: <https://www.possiblewithpico.com/sites/default/files/picolimages/documents/IFUs/SCP_33042_A_PICOFAMILY_US.pdf Last accessed June 2022. 2. World Union of Wound Healing Societies (WUWHS) Consensus Document 2016. Closed surgical incision management: Understanding the role of NPWT. Available at: https://www.woundsinternational.com/resources/details/closed-surgical-incision-managementunderstanding-the-role-of-npwt Last accessed June 2022. 3. PREVENA[™] 125 therapy unit with PREVENA[™] 45ml canister and accessories. Instructions for use. Available at: www.acelity.com/-/media/Project/Acelity/Acelity-Base-Sites/shared/PDF/420236a-gde-prevena-125-150ml-canister-clinician-denovo-web.pdf Last accessed June 2022. 4. PREVENA[™] PLUS 125 therapy unit (14 day) with PREVENA[™] 150ml canister and accessories. Instructions for use. Available at: <https://www.acelity.com/-/media/Project/Acelity/Acelity-Base-Sites/shared/PDF/420283a-gde-prevena-plus-125-150ml-canister-clinician-denovo-14-day-web.pdf Last accessed June 2022. 5. DOF Smith+Nephew 2021. Assumptions on product channel split. 6. Dowsett C, Hampton K, Myers D, Styche T. Use of PICO to improve clinical and economic outcomes in hard-to-heal wounds. Wounds International. 2017;8(2):52-58 7. Saunders C, Nherera LM, Horner A, Trueman P. Single-Use negative-pressure wound therapy versus conventional dressings for closed surgical incisions: systematic literature review and meta-analysis. BJS Open. 2021;0(0):1 - 8.

Important Safety Information: The PICO pumps contain a MAGNET. Keep the PICO pumps at least 4 inches (10 cm) away from other medical devices at all times. As with all electrical medical equipment, failure to maintain appropriate distance may disrupt the operation of nearby medical devices. For full product and safety information, please see the Instructions for Use

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