

Smith+Nephew Sponsored Learning: Shaping What's Possible In Negative Pressure Wound Therapy

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Simplifying Negative Pressure Wound Therapy (NPWT) Through Innovation

Negative pressure wound therapy (NPWT) is commonly used as an adjunctive therapy in wound care. Since 2007, Smith+Nephew has been on a mission to simplify NPWT through innovation.

The RENASYS EDGE System

Smith+Nephew's latest innovation - the "RENASYS EDGE" - was recently launched at Wounds Canada. Prior to developing the product, S+N gathered feedback from various stakeholders including clinicians, biomedical engineers and repair technicians to ensure all stakeholder needs were captured. The team synthesized the feedback and discovered three overarching trends: patients wanted a pump that alleviated the burden of living with a wound, clinicians wanted a pump that alleviated the burden of caring for a wound and stakeholders in charge of operations needed a pump that streamlined maintenance for higher utilization. After collecting the data, the team of engineers spent another four years and 20,000 hours of both designing and testing the pump prior to launching this year.

The new RENASYS EDGE has been designed with simplicity at its core.

For the Clinician: The RENASYS EDGE pump is easy to use. It has step-by-step tutorials built into the pump. Patients, caregivers and/or clinicians can troubleshoot by following the on-screen tutorials. There is also a NFC sensor on top of the pump that acts similar to a QR code. Clinicians can scan the NFC sensor with their mobile device and be taken to the RENASYS EDGE website for further troubleshooting. There are audio and visual alerts when a potential problem is detected and audio and visual alarms when a problem is imminent.

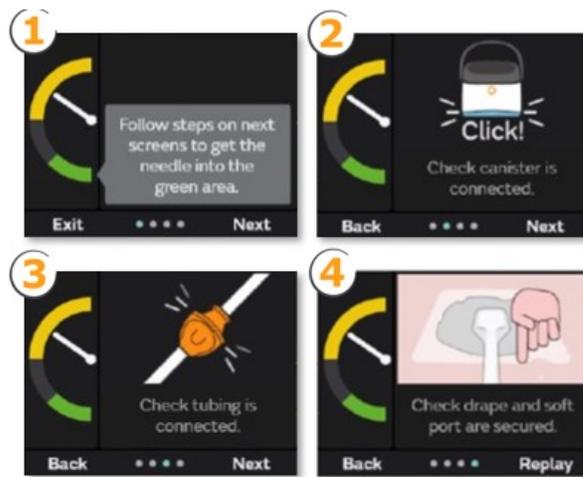
For the Patient: The RENASYS EDGE pump is small, lightweight, portable and quiet - allowing patients to continue with their daily lives. A hidden 300ml canister is designed to be discreet while still allowing assessment of exudate. Both the filter and the o-ring have been moved from the pump to the canister to minimize maintenance, reduce odour (filters are changed with every



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canister change instead of once a year during annual maintenance), and prevent back flowing of exudate when inverted. Additionally, the soft port tubing on the dressings will help minimize device related skin injuries and reduce the need for clinicians to bridge.

For Operations: The features and design of the RENASYS EDGE allows for efficiency at every turn. The self-test functionality removes the need for annual servicing. The components within the pump are sturdy, reliable and durable to help minimize the number of device returns. The pump is easy to clean and takes less than five minutes to wipe down and reset settings in between patients.



***Nicolo Conti BBiotech** is Senior Global Marketing Manager, Smith+Nephew. He is a pharmaceutical biotechnologist with over 12 years experience in wound care and medical device industries. Since 2022, Nico has led the global launch of RENASYS EDGE as the Sr. Global Marketing Manager – RENASYS in Smith+Nephew

****Chris Webb BSc** is Product Design Lead, Smith+Nephew NPWT. Chris is a physicist with over 30 years industrial and manufacturing experience in vacuum-related applications, the last 18 years in the field of Medical Equipment. He has worked for Smith + Nephew since 2015 in operational and research roles and is currently involved in the design of Negative Pressure Wound Therapy (NPWT) devices.

To access the full presentation, click here: https://drive.google.com/file/d/1HYjPQhXBNVeJ_b8M_wVln0L_bSII_Lq6/view?usp=share_link

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