

Transforming Wound Care

Customized and Immediate Dressing in all Clinical Settings

SpinCare™ is the first and only system that integrates electrospinning technology into a portable, bedside device, offering immediate wound care treatment. The device creates customized nano-fibrous dressing based on patient's wound condition.

The dressing produced in situ is fine-tunable to surface, shape, thickness, skin site and area to be covered. It is applied from a short distance, eliminating contact between the caregiver and the wound, thus reducing the potential of infection.

The SpinCare™ System includes a hand-held device and a sterile pre-filled cartridge

Loading the cartridge into the SpinCare™ device and operating the device forms in real-time, a fully tailored skin-like dressing. The dressing remains on the wound until the skin underneath is fully epithelialized.

SpinCare™ Addresses Every Aspect of Wound Care



No pre-planning. SpinCare™ creates dressings that fit any wound size and body contour.



No-contact applied with excellent adherence to wound. SpinCare™'s dressing adheres to all body surfaces.



Excellent tissue regeneration by mimicking natural body healing. SpinCare™ produces a highly porous nano-fibrous temporary skin-like dressing.



Transparent dressing allows real-time assessment. SpinCare™ enables continuous healing assessment through the transparent dressing.



No dressing replacement. SpinCare™ enables wound healing without dressing changes.



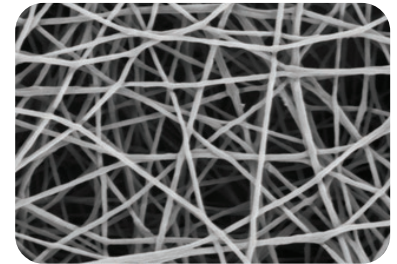
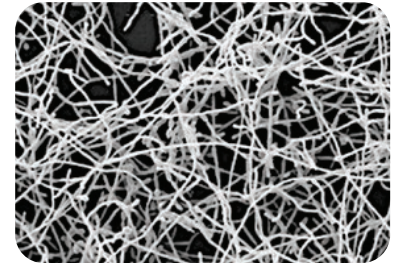
Automatic peeling when healing is completed. SpinCare™ dressing automatically peels off from epithelialized areas.

Advanced Technology Promotes Natural Healing

SpinCare™ is based on Nicast proprietary electrospinning technology, embedded in a portable, light-weight, bedside wound care device. Electrospinning technology uses electrostatic forces to create a matrix of nano-fibers, forming a multi-layer porous dressing that mimics the structure of the extracellular body tissue (ECM).

The structure of the nano-fibrous porous dressing is an excellent and exceptional medium for tissue integration and reparation, healing promotion and reduction of potential infection risks.

Extracellular Matrix



Electrospun nano-fibers

Nano Fibrous Dressing Characteristics

Hemostasis

- Induces hemostasis due to nano-fibrous structure and highly effective surface area

Semi-permeability

- Facilitates cell respiration, oxygen permeation and moisture level due to its porous structure

Conformability

- Conforms to all wound and body contours, providing better coverage and easy handling of wound dressing

Multi-functionality

- Bio-stable or bio-degradable, natural or synthetic dressing types, incorporating therapeutic compounds such as drugs, nano-particles, growth-factors...

Bacterial protection

- Nano-fibrous, multi-layers and interconnected nano-porosity protect against microbial penetration

Scar-free

- Nano-fibrous structure provides good cell conductivity, facilitating wound healing and skin regeneration.

About Nicast

Nicast is a pioneer in the development and commercialization of implantable medical devices made of electrospun polymer nano-fabrics. Nicast has a highly experienced team with extensive scientific knowledge, advanced in-house development and manufacturing capabilities that meet the most stringent standards. Nicast technology, including SpinCare™, has broad IP protection.

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