

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.



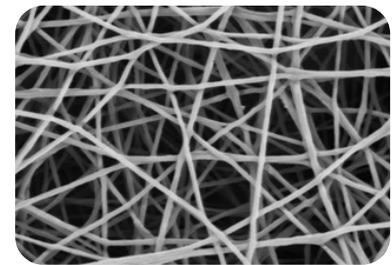
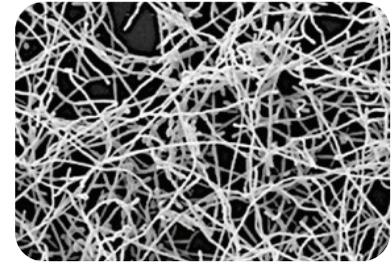
Automatic peeling when healing is completed. SpinCare™ dressing automatically peels off from epithelialized areas.

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 repairation, 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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