



THE SpinCare™

PERSONALIZED WOUND DRESSING SYSTEM

Nicast is introducing the SpinCare™ wound dressing system – a paradigm shift in the treatment of burns and wounds. This portable, no-contact, personalized, wound dressing device is the first made-on-the-spot, bedside, electrospun dressing that provides excellent coverage of any wound size and contour with a transparent, self-peeling, skin-like layer, reducing the need for dressing replacements. No pre-planning, no need for large stock and shelf space and no need for various shapes and sizes.

Nicast Ltd. is a pioneer in the development of implantable medical devices made of electrospun nanofabrics. It has long identified the significant potential of combining electrospinning nanotechnology and biomaterials and has been working to apply this technology to a range of medical applications.

Electrospinning is a unique technique that uses electrostatic forces to produce nano-diameter, non-woven fibers that incorporate very fine pore sizes with high surface area, making them an ideal solution for delivering wound healing therapies to any surface of the body. In fact, electrospun nanofibers mimic the structure of natural body tissue – the extracellular matrix (ECM) - creating an excellent medium for tissue repair and healing. Many types of polymers can be electrospun establishing a platform technology able to contain wound healing agents.

Electrospun dressings are semi-permeable with a porous structure that is excellent for the respiration of cells, producing an optimal environment for promoting tissue healing by controlling both moisture levels and oxygen permeation, promoting hemostasis without using hemostatic agents and protecting against bacterial penetration.



HIGHLIGHTS

- Mimics the structure of the ECM; excellent medium for tissue repair and healing.
- No contact dressing; applied about 20cm away from the wound, reducing pain and potential infection.
- Nano-fibrous, multi-layer, highly porous; allows free fluid transmission and complete adhesion to wound bed, reducing the potential for infection associated with fluid accumulation.
- Dressing is transparent; allowing wound assessment without dressing removal.
- On-the-spot, tailor-made, bedside use; fits all body surfaces, geometries and sizes including difficult body areas.
- Pain free excellent adherence to wound bed, no shearing and no bulking; acts as a temporary skin preventing pain and bacterial migration/infection.
- Flexible and elastic, no need to remove or replace, peels off on its own as epithelialization underneath is complete.
- Easy to handle.
- High availability; minimal stock/storage space; no need for various sizes/shapes.
- Allows for recurrent applications on the same wound areas.
- Portable and battery operated; perfect fit for both hospitalized and ambulatory patients.

SpinCare™ introduces a simple, user-friendly and personalized treatment option into the wound care arena; an advanced dressing system with inherent characteristics and advantages that outperforms traditional dressings. We predict that the medical community will embrace such a solution for the benefit of both patient and healthcare professionals.



For further information please contact Dr. Chen Barak (chen@nicast.com).