spincare

## A New Era in Wound Healing and Skin Regeneration

Real time printing of a nanofibrous matrix, directly on the wound, that bio-mimics the structure of the human extracellular matrix using electrospinning technology.



Human Extracellular Matrix (ECM)

Human Hair Versus Spincare Matrix Spincare Matrix

**Wound types:** All non-infected, superficial to partial thickness, clean, acute or chronic wounds - including dermatological disorders

**Size and shape:** One-size-fits-all. One ampule will cover approximately 300cm<sup>2</sup>

## Electrospinning technology uses electrostatic forces to create a matrix of nano fibers, forming a multi-layer porous skin-like matrix.

Acts as scaffold <sup>1</sup>	Provides a 3-dimensional structure (scaffold) that assists effective cell migration and proliferation
Semi-permeability <sup>2</sup>	Facilitates cell respiration, oxygen permeation and moisture level due to its porous structure
Conformability	Conforms to all wound and body contours, becoming a direct continuation of the skin.
Bacterial protection <sup>3</sup>	Nano-fibrous, multi-layers and interconnected nano-porosity protect against microbial penetration

### **Spincare functionality**



Day 0 - Pre-application

Certain areas of the body are notoriously hard-to-dress (face, hands, neck, shoulder, joints, etc.). Spincare makes this quick and easy!



Spincare matrix will adhere perfectly to the wound, covering all exposed tissue. No fixation required. Matrix will gradually become transparent, allowing constant visual inspection.



The Spincare matrix will spontanously peel off when patient's own skin has regenerated underneath the matrix. In chronic wounds this can be seen on wound edges as wound contracts.



Minimal scarring and high skin quality is often reported, as nanofibrous structure provides good cell migration, facilitating

wound healing and skin

regeneration.

Photo: Dr. Agathangelou, Dhali Community Geriatric, Rehabilitation and Wound Centre (Cyprus)



# Allowing patients to live while they heal

### Significantly improving patients' quality of life

- No bulky dressings that limit movement
- Ability to shower
- No contact application, with reduced pain and infection risk
- No frequent dressing changes
- Reduced infection and complication rate<sup>4,5</sup>
- Permeable and breathable exudate can pass through the dressing
- Providing skin-like elasticity to allow early and effective physiotherapy and better mobility

## Spincare matrix supports tissue regeneration

- Compared fibroblast cultures with and without Spincare matrix
- Confirmed Spincare matrix supports cell therapy to promote tissue regeneration

#### References

1,2,3 Test data on file.

- 4 Evaluation of the Spincare<sup>™</sup> system in the treatment of partial thickness burns, multicenter single arm study. Sheba Medical Center/ Sourasky Medical Center / Rambam Health Care Campus. Article under preparation.
- 5 Evaluation of in-situ electrospun nanofiber scaffolds in hard-to-heal wounds, Agathangelou C, Achilleos S.; Electronic poster EP008 EWMA 2023.

Fibroblasts – no Spincare

Fibroblasts – with Spincare





Article code	Article name	Quantity per box
Spincare01	Spincare™ Portable Device System	1
SLK001	Spincare™ Kit	25

### **About Nanomedic**

Nanomedic Technologies Ltd. is an Israeli biomedical high-technology company specializing in the development and marketing of its Spincare portable technology; a patented platform technology with wide market applications both within and outside the hospital environments. Nanomedic is focused on the development of next generation wound care solutions and technologies for the benefit of patients, medical staff and the healthcare system.





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