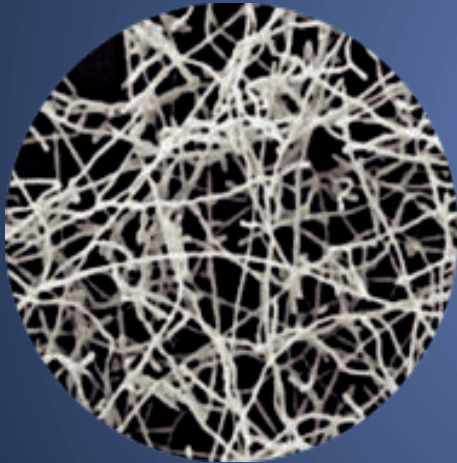




**A New Era in
Wound Healing and
Skin Regeneration**

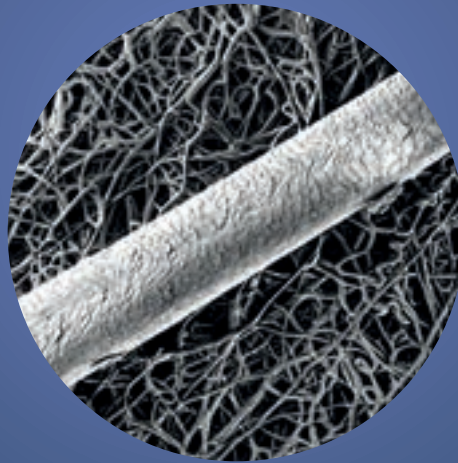
Real time printing of a nanofibrous matrix, directly on the wound, that bio-mimics the structure of the human extracellular matrix using electrospinning technology.

SEM Image



Human Extracellular Matrix (ECM)

SEM Image



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 300cm²

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

Acts as scaffold¹

Provides a 3-dimensional structure (scaffold) that assists effective cell migration and proliferation

Semi-permeability²

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 protection³

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

Spincare functionality

Photos: Department of Plastic and Reconstructive Surgery, Rambam Health Care Campus



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!



Day 1

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



Day 7

The Spincare matrix will spontaneously 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.



Day 14

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, Dhail 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^{4,5}
- 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

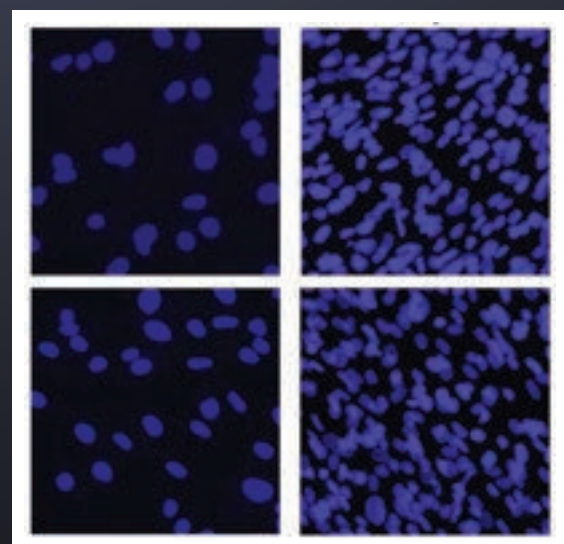
- Compared fibroblast cultures with and without Spincare matrix
- Confirmed Spincare matrix supports cell therapy to promote tissue regeneration

References

- 1,2,3 Test data on file.
- 4 Evaluation of the Spincare™ 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 bio-medical 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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Sold and distributed by:

G&N
Maydwell Avenue, Stane Street,
Slinfold, Horsham, West Sussex RH13 0GN

Tel: +44 (0) 1403 799190

Email: sales@gandn.com

www.gandn.com