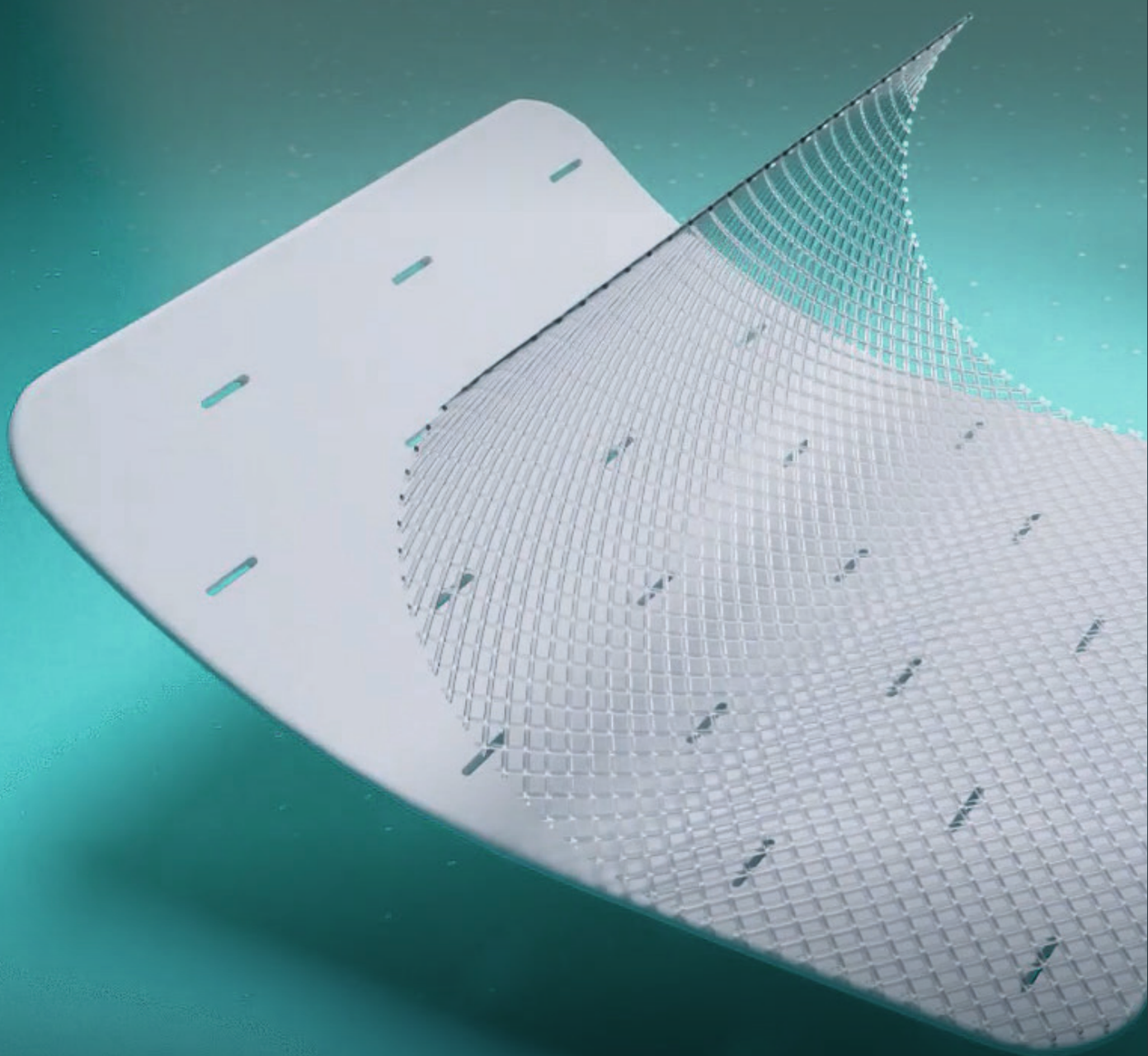
matriderm® plus+

BI-LAYER DERMAL MATRIX

Accelerating **Healing**, **Enhancing** Outcomes



medskin solutions
DR. SUWELACK

matriderm®

Time Is What Makes the Difference

In wound healing, **time is critical.** The earlier a wound is closed, the better the conditions for rapid vascularization,[1] reliable graft take,[2] and the formation of a stable neo-dermis.[3] This drives superior functional and aesthetic outcomes.[4]

Reducing the open-wound phase also means fewer complications, **faster recovery,** and less overall burden on both patients and healthcare systems. Most importantly, it **improves patients' quality of life** by reducing hospitalization time, limiting psychological stress, and enabling a quicker return to everyday life.[5]

Reducing the time a wound remains exposed helps to:

- Minimize infection risk[6]
- Shorten recovery timelines[7]
- Enhance functional and aesthetic outcomes[8]



Faster healing translates into wider benefits:

Patients regain mobility, confidence, and quality of life sooner.[9]

Hospitals see shorter inpatient stays, fewer complications, and more efficient use of resources.[10]

Payers gain from reduced overall treatment costs.[11]

The Clinical Use & Challenge

Time to grafting depends on wound conditions. In complex wounds, a staged approach using a dermal matrix is often recommended to protect vulnerable structures, prepare the wound bed, stabilize the patient, and control exudate.

The challenge is balancing this necessary preparation with the need to close the wound as early as possible. Even in complex cases, earlier closure means better functional and aesthetic outcomes.[12]

To achieve this, a dermal matrix must do more than fill a defect, it must **support guided healing.**[13] By promoting structured neo-dermis formation and preventing disorganized scar tissue, MatriDerm® helps to restore elastic, functional skin.

Enabling earlier grafting, whether immediate or staged, is what MatriDerm® is known for, backed by more than 20 years of renowned clinical experience.



A staged procedure is advisable to treat complex cases:

Large surface areas with lack of donor sites

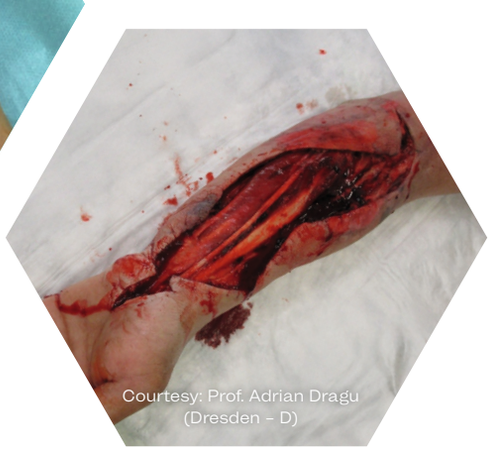


Courtesy: Dr. J. Grünert (St. Gallen – CH)



Courtesy: Prof. Adrian Dragu (Dresden – D)

Wounds with exposed structures



Courtesy: Prof. Adrian Dragu (Dresden – D)

Deep wound defects

The Solution

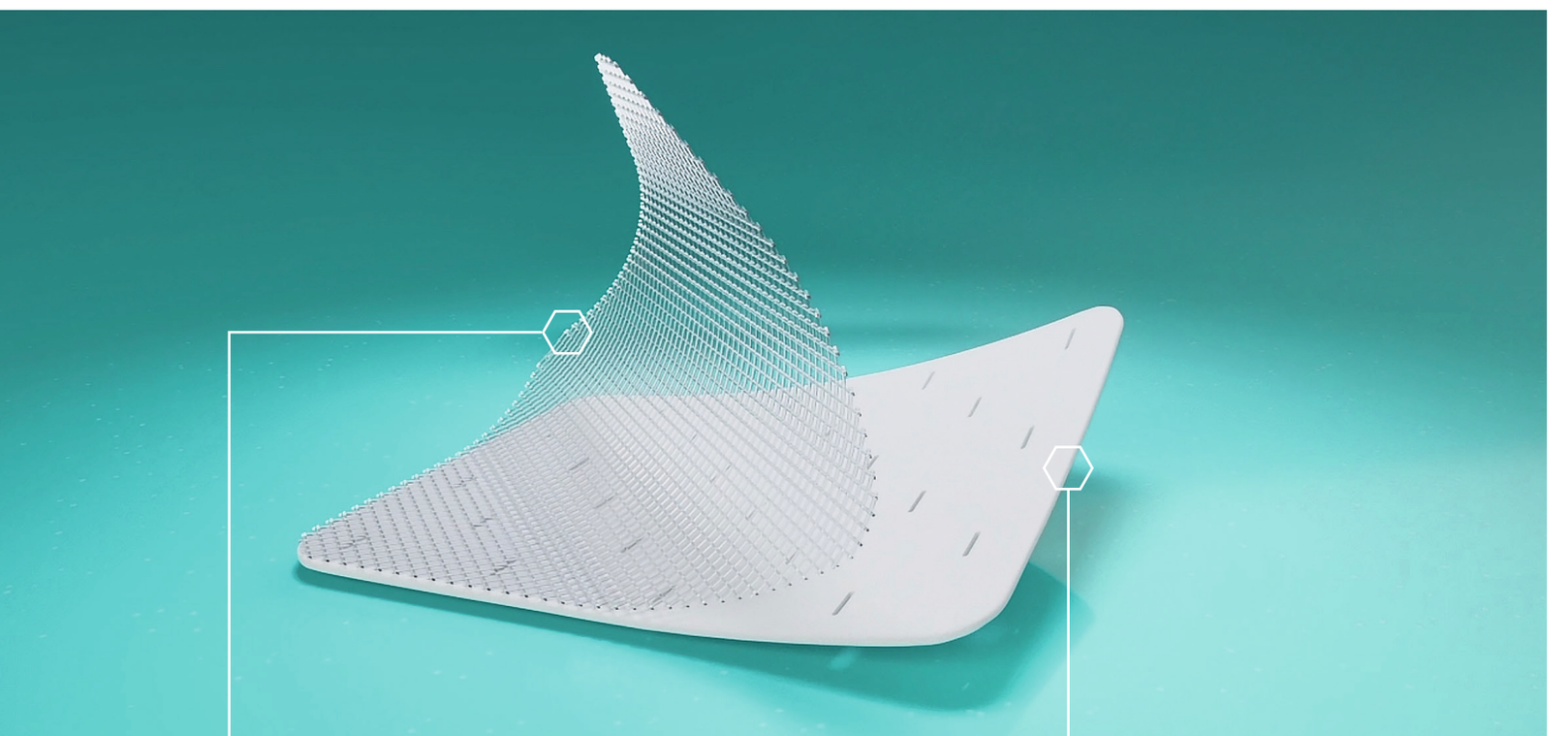
MatriDerm® pluS+ is a bi-layer matrix designed to serve as a scaffold for dermal regeneration. Its unique composition combines a medical-grade silicone grid with the 3D MatriDerm® collagen-elastin matrix.

The matrix contains native, structurally intact dermal collagen fibrils and solubilized elastin derived from bovine ligamentum nuchae.

This **biological scaffold** supports cellular repopulation and tissue regeneration.

The **top layer** consists of a medical-grade silicone grid, uniquely designed to act as a clinical decision-directing interface, guiding the surgeon when to proceed with skin grafting.

Moreover, the silicone grid adds mechanical strength and protects the wound environment during a staged surgical procedure.



Top layer
Silicon 3D grid

A perforated medical-grade silicone grid

- Supports clinical assessment of matrix integration prior to grafting
- Improves handling and surgeon confidence
- Provides additional protection to the wound bed
- Designed to aid effective exudate management

Wound-facing layer
3D MatriDerm® collagen-elastin matrix

A fenestrated collagen-elastin dermal matrix

- Promotes cellular ingrowth[14, 15, 16]
- Promotes capillary ingrowth[15, 17, 18]
- Facilitates neo-dermis formation[16, 19, 20]

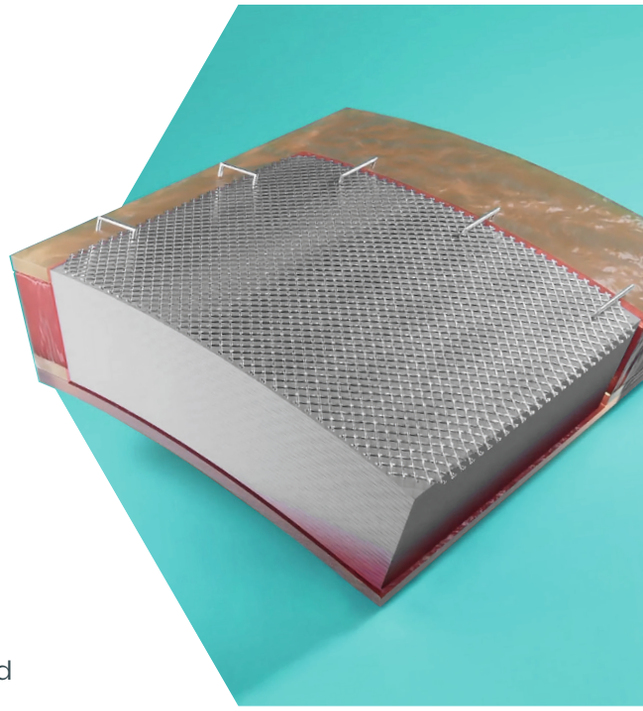
Clinical Benefit

MatriDerm® pluS+ offers flexibility and strength in staged wound closure and grafting combined with the key performance attributes of MatriDerm®:

Early engraftment

Early vascularization

Excellent biocompatibility



Thus delivering the aesthetic and functional excellence clinicians and patients expect.

MatriDerm® gives time back to clinicians, to hospitals, and most of all, to patients. Because **healing shouldn't wait.**[21]



Indications for Use

MatriDerm® pluS+ is indicated for the treatment of a variety of acute and chronic wounds. Its design allows for versatility in surgical application while maintaining a focus on optimal healing outcomes.

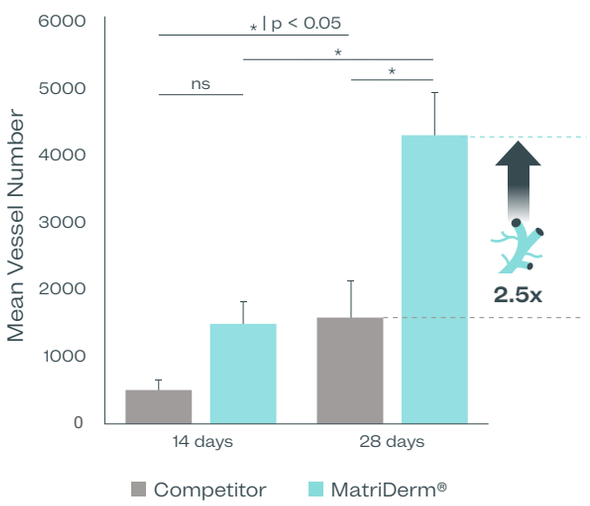
Clinical indications:

- Surgical wounds (dermatological diseases, donor sites/ grafts, post Mohs surgery, post-laser surgery, podiatric, wound dehiscence)
- 2nd degree and 3rd degree burns
- Trauma wounds (abrasions, lacerations, and skin tears)
- Mucosal defects
- Partial thickness and full-thickness wounds
- Draining wounds
- Graft-requiring poorly healing (e.g. chronic) wounds (such as pressure ulcers, venous ulcers, diabetic ulcers, chronic ulcers)

MatriDerm® pluS+ is compatible with all negative pressure wound therapy (NPWT) devices, enabling enhanced outcomes in complex wounds.

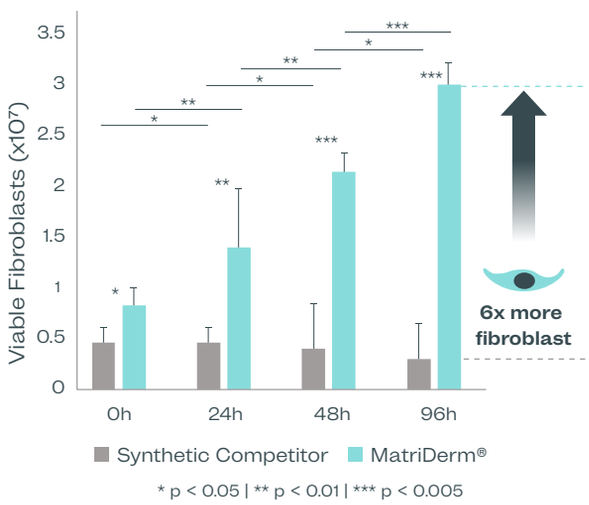
MatriDerm® Collagen Elastin Dermal Matrix Scientific Legacy

MatriDerm® accelerates revascularization: In an animal AV-Loop model, the number of new formed blood vessels were analyzed in wounds treated with MatriDerm® or competitor product.



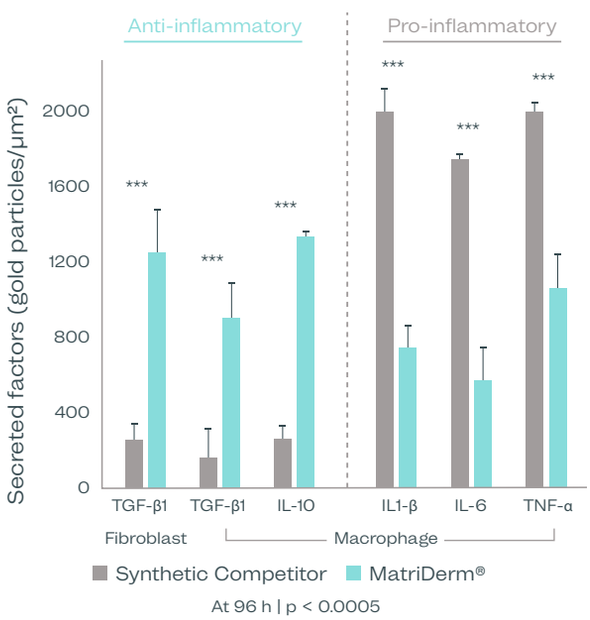
Hong, J. P. et al. (2025). *Int Wound J.* 22(1):e70108

MatriDerm® promotes higher fibroblast proliferation: MatriDerm® leads to higher cellular proliferation compared to other competitive matrices.



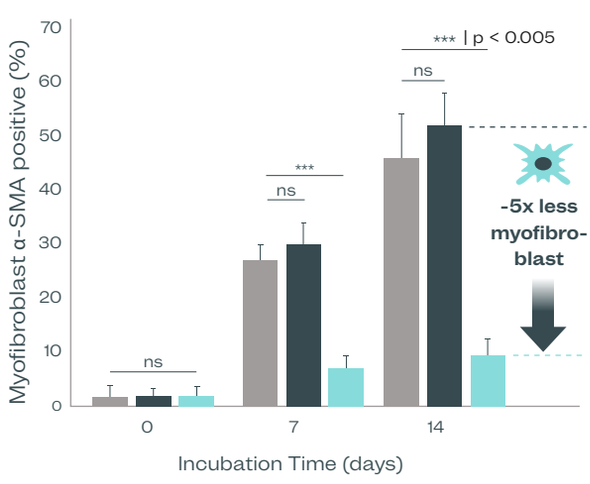
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MatriDerm® promotes a balanced inflammatory profile: MatriDerm® elicits less pro-inflammatory cytokines release vs competitor thus resulting in better wound healing and less scarring.



Dill, V. and Moergelin, M. (2020). *Int Wound J.* 17(3):618-630
**By measurement of a-SMA positive fibroblasts

MatriDerm® prevents contraction by limiting myofibroblast formation: In vitro analysis of the formation of myofribroblast phenotype by a-SMA staining. MatriDerm® limits myofibroblast formation compared to competitor products. Myofibroblast formation is associated with wound contraction.



Hong, J. P. et al. (2025). *Int Wound J.* 22(1):e70108

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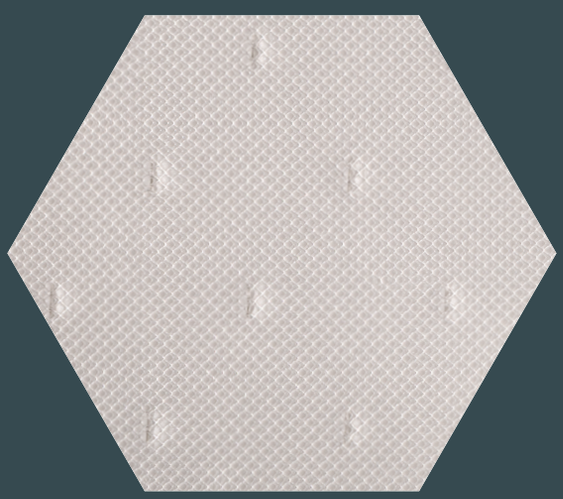
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L (A4)
210 x 297 mm

M–L (A5)
210 x 148 mm

M (A6)
105 x 148 mm

S (A8)
52 x 74 mm



Size	Thickness	MatriDerm® pluS+ Bi-Layer Dermal Matrix Ref. No.
L (A4) 210 x 297 mm	2 mm	83534 – 200
	3 mm	83538 – 200
M–L (A5) 148 x 210 mm	2 mm	83533 – 200
	3 mm	83541 – 200
M (A6) 105 x 148 mm	2 mm	83535 – 200
	3 mm	83539 – 200
S (A8) 52 x 74 mm	2 mm	83536 – 200
	3 mm	83540 – 200

Material number 89684-001

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medskin solutions
DR. SUWELACK

MedSkin Solutions Dr. Suwelack AG
Josef-Suwelack-Strasse 2
48727 Billerbeck, Germany

T +49 (0) 2543 2182-0
E info@medskin-suwelack.com
W medskin-suwelack.com

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