Most complete. Retains all native layers.

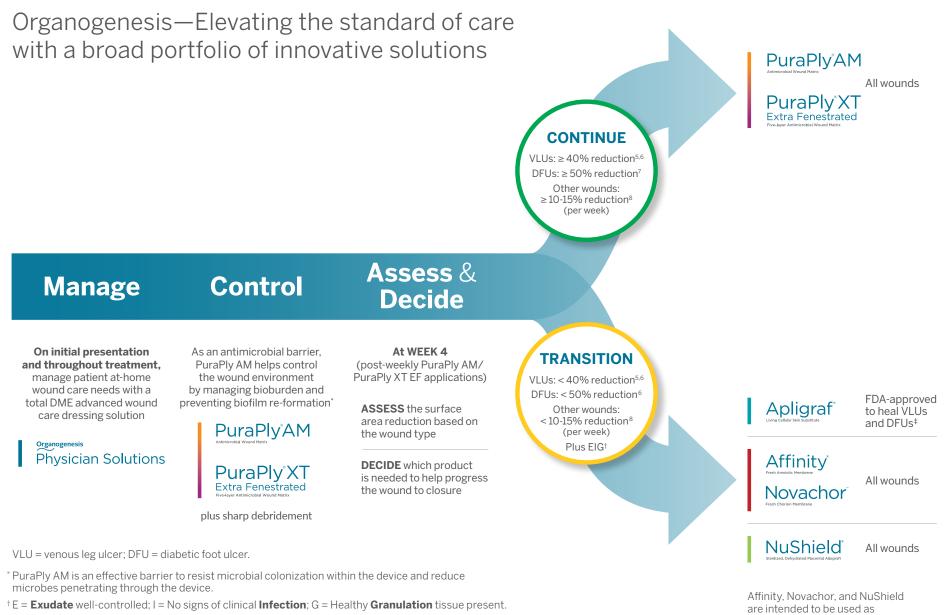
Good as

Support healing without compromise with the most complete dehydrated placental allograft wound covering.¹⁻⁴



www.NuShieldComplete.com

Treatment Algorithm



wound coverings and barriers

[‡] Please refer to the Apligraf Package Insert for complete prescribing information and contraindications.

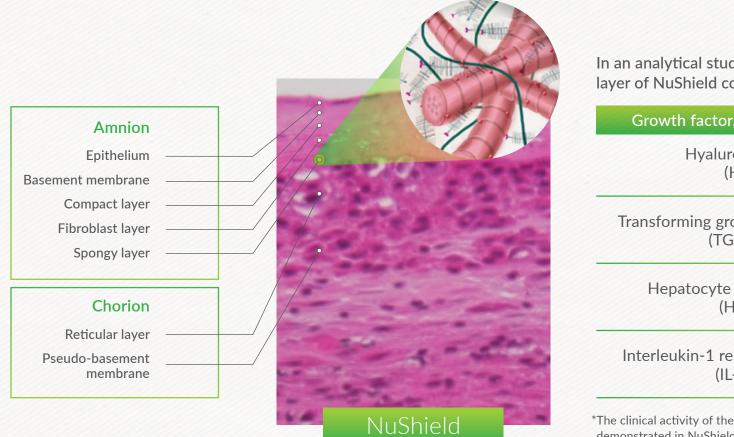
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DFU = diabetic foot ulcer; VLU = venous leg ulcer

NuShield[®]: The most complete dehydrated placental allograft wound covering

Unique preservation method retains all native layers, including the spongy layer²⁻⁴



In an analytical study, the spongy layer of NuShield contained^{3,9}:

Growth factor, matrix protein*

Hyaluronic acid (HA)

Transforming growth factor beta 1 (TGF-β1)

> Hepatocyte growth factor (HGF)

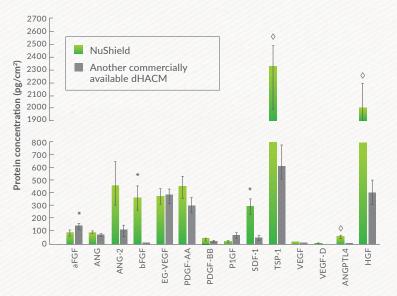
Interleukin-1 receptor antagonist (IL-1ra)

*The clinical activity of these factors has not been demonstrated in NuShield.

NuShield[®] contains more growth factors, cytokines, and hyaluronic acid

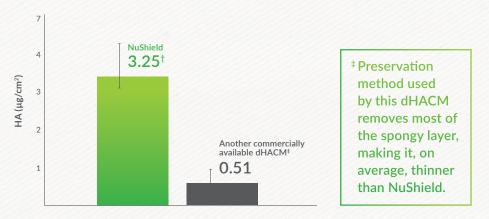
Compared to another commercially available dehydrated human amnion/chorion membrane (dHACM)

NuShield contains 42% higher concentrations of growth factors and cytokines⁹



*P<0.05; \$P<0.01.

A broad evaluation of proteins found that NuShield, compared to another commercially available dHACM, retained statistically significant higher concentrations of many growth factors and cytokines. NuShield contains, on average, over 6x more hyaluronic acid (HA)⁹



[†] Indicates significance where P<0.05.

In this evaluation, HA levels were significantly higher in NuShield than in another commercially available dHACM, with an average of $3.25 \ \mu g/cm^2$ HA in NuShield compared to $0.51 \ \mu g/cm^2$ HA in the other commercially available dHACM.

Overview of case studies

Wound specifics (N=9)

- Types of wounds
 - Diabetic foot ulcer (n=1)
 - Pressure injury (n=1)
 - Soft tissue necrosis (n=1)
 - Trauma wound (n=2)
 - Venous leg ulcer (n=4)*
- Baseline wound duration
 - 16.1 weeks (mean)
 - 13.0 weeks (median)
 - 2 to 39 weeks (range)
- Baseline wound area
 - 16.1 cm² (mean)
 - 11.7 cm² (median)
 - 0.4 to 45.0 cm² (range)

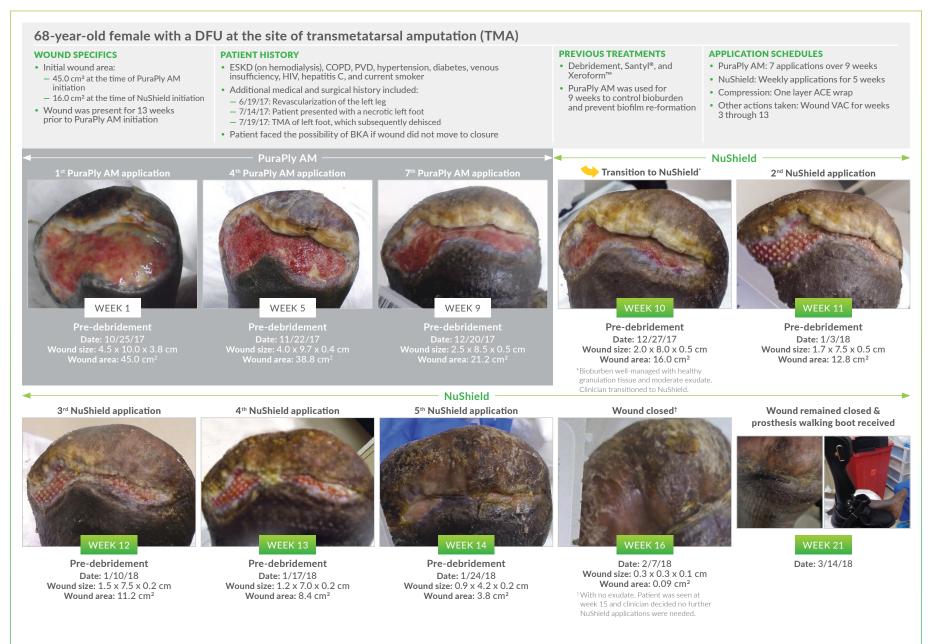
Patients (N=7)

- 4 females; 3 males
- Mean patient age: 73 years (range, 40 to 96 years)

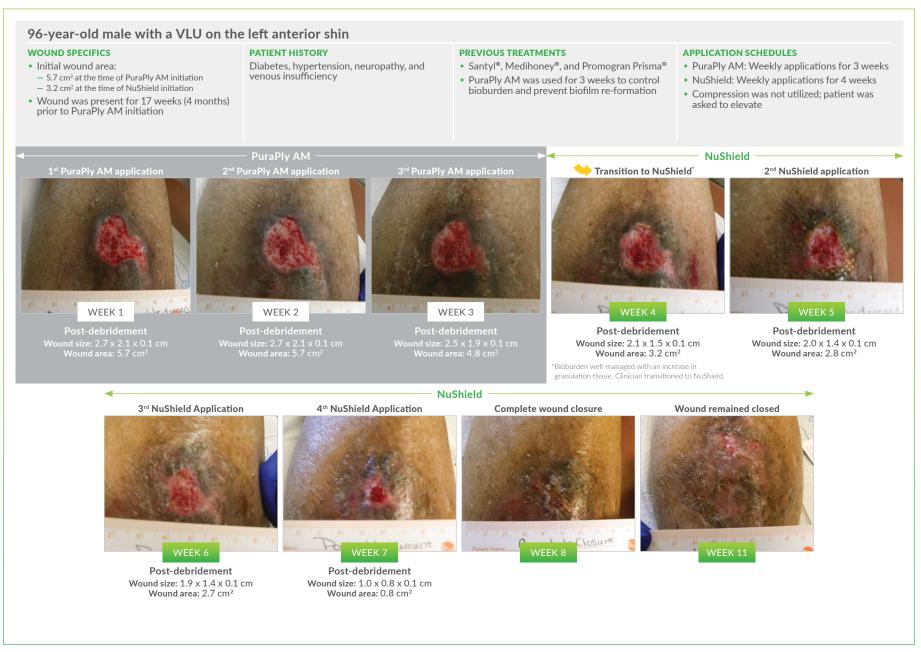


*One patient had three VLUs.

PuraPly[®] AM, an antimicrobial barrier, transitioning to NuShield[®], a complete dehydrated placental allograft wound covering, supported healing of a DFU at 16 weeks

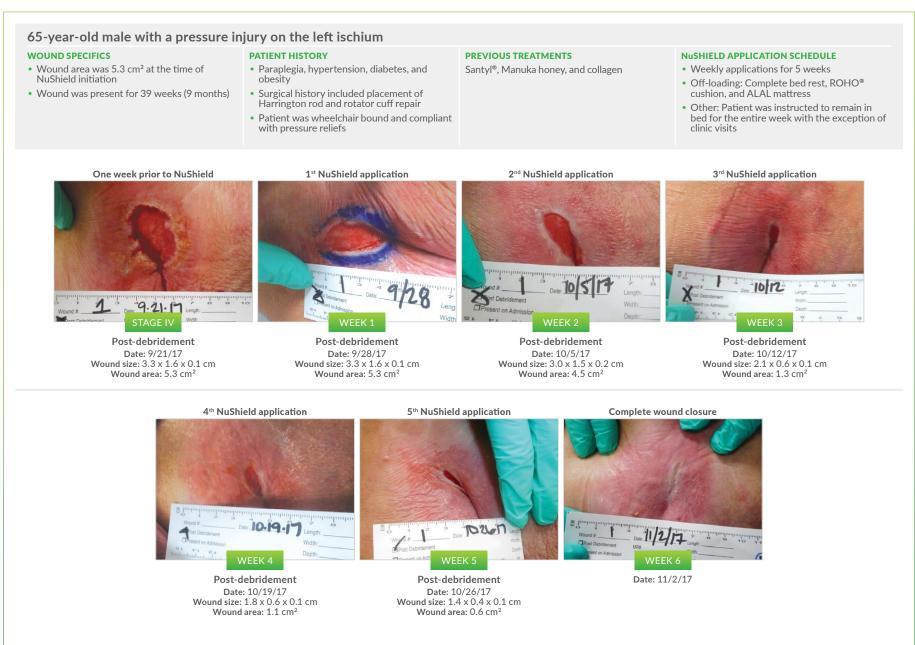


PuraPly[®] AM, an antimicrobial barrier, transitioning to NuShield[®], a complete dehydrated placental allograft wound covering, supported healing of a VLU at 8 weeks



Dates of treatment have been omitted due to hospital regulations.

NuShield[®], a complete dehydrated placental allograft wound covering, supported healing of a pressure injury at 6 weeks following 5 applications



NuShield[®], a complete dehydrated placental allograft wound covering, supported healing of a trauma wound at 11 weeks following 9 applications

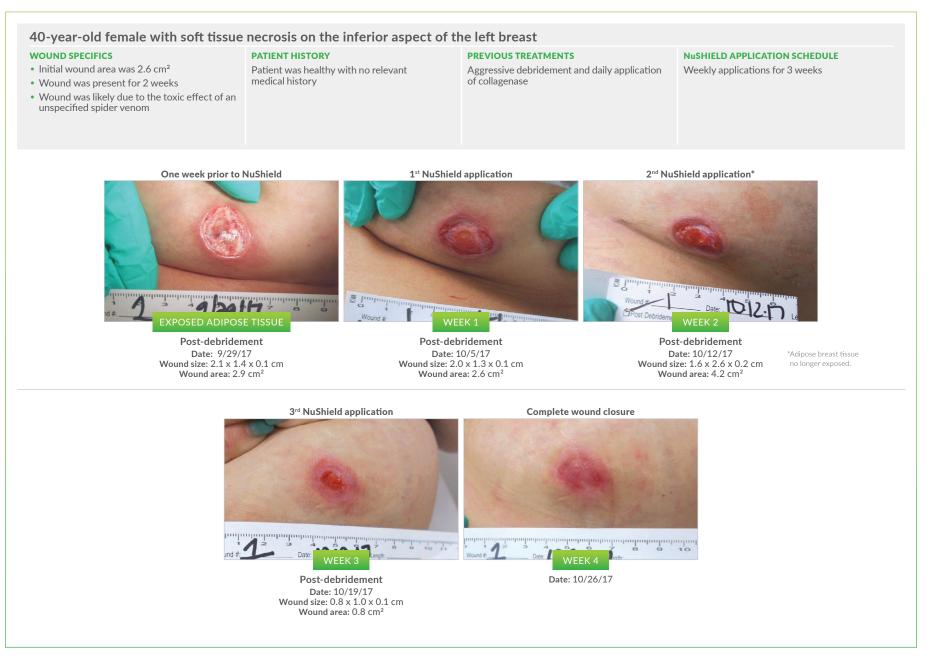


NPWT = negative pressure wound therapy

PuraPly[®] AM, an antimicrobial barrier, transitioning to NuShield[®], a complete dehydrated placental allograft wound covering, supported healing of a trauma wound at 16 weeks



NuShield[®], a complete dehydrated placental allograft wound covering, supported healing of a soft tissue necrosis at 4 weeks following 3 applications

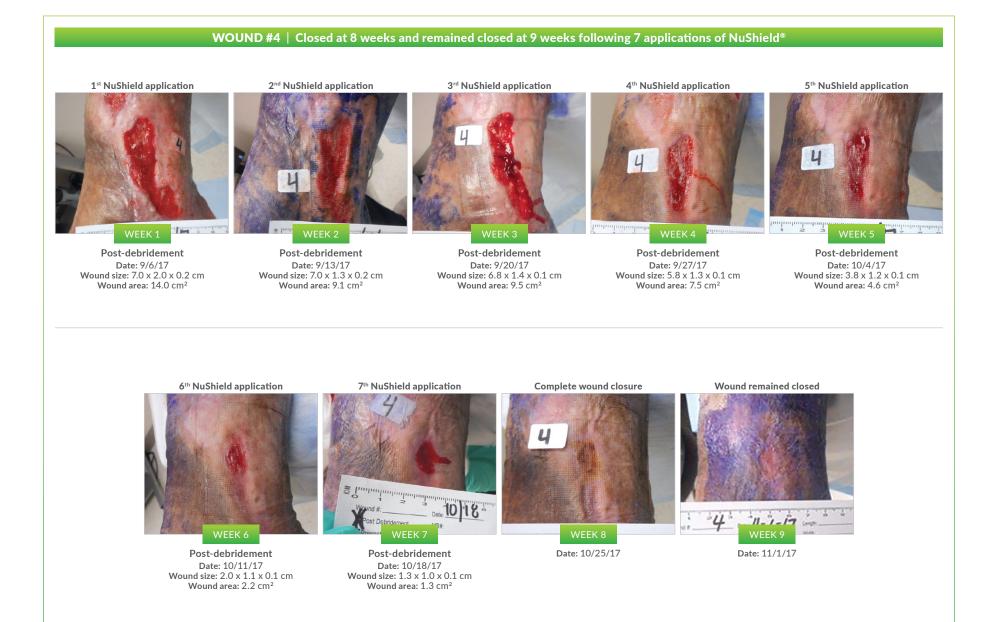


NuShield[®], a complete dehydrated placental allograft wound covering, supported healing of three VLUs in one patient

79-year-old male with three VLUs located on the right lower leg WOUND SPECIFICS **PATIENT HISTORY PREVIOUS TREATMENTS NuSHIELD APPLICATION SCHEDULE** • Wounds were present for 30 weeks (7 months) • PVD, venous insufficiency, diabetes, hypertension, prostate NPWT, collagen, Mesalt[®], and Manuka honey • Wound #6: Weekly applications for 4 weeks cancer, mild cognitive impairment, hyperlipidemia, arthritis, • Wounds #1 and #4: Weekly applications for Location of wounds: and PAD 7 weeks #6 Right medial lower leg (superior wound) • Surgical history included revascularization/atherectomy to - #1 Right lateral lower leg Compression: Four layer compression wrap address right tibial vessel disease (July 2017) - #4 Right medial lower leg (inferior wound) · Prior wound complication included cellulitis WOUND #6 | Closed at 5 weeks following 4 applications of NuShield 1st NuShield application 2nd NuShield application 3rd NuShield application HAM • manapanpanpanpanpan 2 22 WEEK 1 WEEK 2 WEEK 3 Post-debridement Post-debridement Post-debridement Date: 9/6/17 Date: 9/20/17 Date: 9/13/17 Wound size: 0.7 x 0.5 x 0.1 cm Wound size: 0.7 x 0.7 x 0.2 cm Wound size: 0.5 x 0.5 x 0.1 cm Wound area: 0.4 cm² Wound area: 0.5 cm² Wound area: 0.25 cm² 4th NuShield application Complete wound closure







Help support a favorable environment for healing.

Good as



The Nu Difference

- The most complete dehydrated placental allograft wound covering^{2,3}
- Unique preservation method retains all native layers, including the spongy layer⁴

The Nu Versatility

- May be used as a wound covering for a variety of wound types from head to toe, including those with exposed bone and tendon¹⁰
- Available in a wide range of shapes and sizes allowing for flexibility when fitting a wound

The Nu Results

- As a protective wound covering in real-world patients (retrospective case series; N=50), NuShield[®] was shown to support healing in a wide variety of wounds¹
- NuShield retains more growth factors, cytokines, hyaluronic acid, and thickness than another commercially available dehydrated human amnion/chorion membrane (dHACM)⁹

When you're looking for a dehydrated placental allograft wound covering that offers convenience without compromise, give your patients NuShield.

Note: NuShield is intended for use as a wound covering and barrier.

References: 1. Caporusso J, et al. *Wounds.* 2019;31(4 Suppl):S19-S27. **2.** Niknejad H, et al. *Eur Cells Mater.* 2008;15:88-99. **3.** McQuilling JP, et al. *Int Wound J.* 2019;16(3):827-840. **4.** Data on File. Description of BioLoc Process. Organogenesis Inc. **5.** Phillips TJ, et al. *J Am Acad Dermatol.* 2000;43(4):627-630. **6.** Gelfand JM, et al. *J Invest Dermatol.* 2002;119(6):1420-1425. **7.** Sheehan P, et al. *Diabetes Care.* 2003;26(6): 1879-1882. **8.** Attinger CE, et al. *Plast Reconstr Surg.* 2006;117(Suppl):72S-109S. **9.** Data on file. DR-0004. Organogenesis Inc. **10.** NuShield Allograft Tissue Information and Instructions for Use. Canton, MA: Organogenesis Inc; 2019.

Organogenesis NuShield® Sterilized, Dehydrated Placental Allograft

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