

stryker

Soft tissue solutions



Dermis

GraftJacket NOW

Regenerative Tissue Matrix

GraftJacket NOW is a human allograft acellular dermal matrix for use during soft tissue repair. GJN offers a strong¹, three-dimensional, collagen-rich matrix with preserved vascular channels to facilitate revascularization and graft incorporation.



Diverse clinical applications

Can be used for the repair or replacement of damaged or inadequate integumental tissue (e.g., acute and chronic wound covering) and for supplemental support, protection, reinforcement, or covering of tendon or ligament repair and augmentation.

Strength

Exhibited higher tensile strength in benchtop testing compared to published values for competitive acellular dermal matrices.¹

Ease of use

Prehydrated to allow for immediate use in the operative setting, and available in a variety of sizes, thicknesses, and meshed and unmeshed options.

Processing

Proprietary cleansing technology utilizes no detergents or enzymes. Terminally sterilized to a SAL of 10^{-6} .

ProLayer Xenograft

Acellular Porcine Dermis

ProLayer Xenograft is an acellular, sterile porcine dermal matrix for use in the reconstruction of soft tissue deficiencies.

Strength

Structurally intact matrix offers strength during tissue regeneration and allows for high tensile strength to augment soft tissues during the healing process.²

Performance

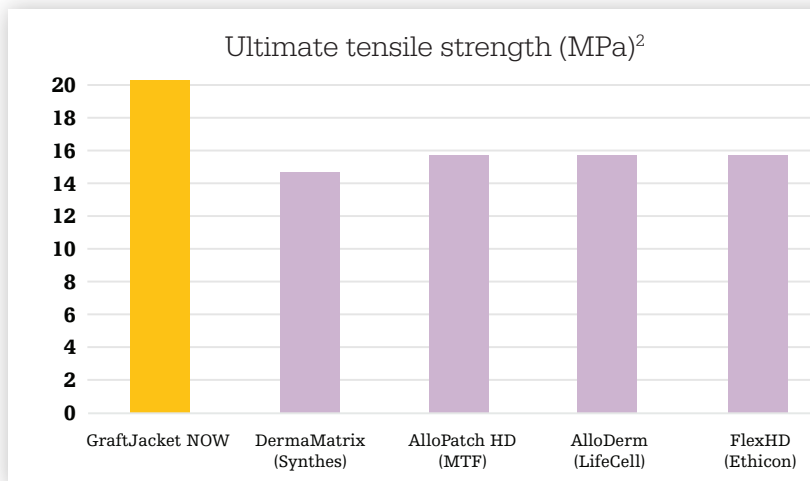
Preclinical animal models demonstrate evidence of early cellular infiltration, new blood vessel vascularization, and host tissue remodeling contributed to the acellular, porous collagen matrix.

Ease of use

ProLayer Xenograft does not require rehydration or rinsing and can be implanted directly from packaging. The xenograft can be implanted with either side facing downward.³

Safety

Proprietary processing intended to remove cells while maintaining an open collagen structure. Sterilized using E-beam to a SAL of 10^{-6} .



1. Stevens PS, Stilwell R. The Biomechanics of AlloMend Acellular Dermal Matrix: Ultimate Tensile Strength. AlloSource whitepaper, M8S0062.00-01, 2014.

2. Data on File at AlloSource

Amniotics

AlloWrap DS

Amniotic Membrane

AlloWrap DS is a human amniotic membrane allograft for use as a wound covering or as a physical barrier in a variety of surgical applications.

Dual layer

AlloWrap DS is a double-sided membrane, featuring two layers of amniotic tissue and oriented with the epithelial layers facing outward to eliminate the need for side-specific orientation during implantation.

Ease of use

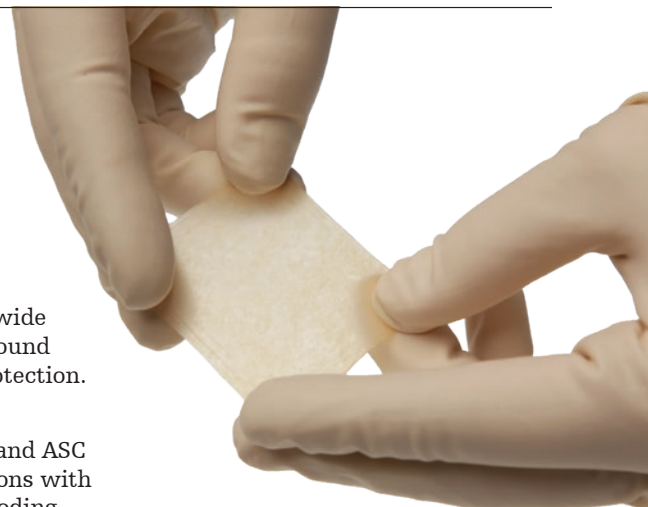
AlloWrap DS requires no product preparation and is packaged ready-to-use. AlloWrap DS is not dehydrated or cryopreserved and can be stored at room temperature.

Versatile

AlloWrap DS can be applied to a wide range of procedures, including wound coverage and nerve or tendon protection.

Reimbursement

Reimbursable in the outpatient and ASC settings for wound care applications with Healthcare Common Procedure Coding System (HCPCS) code Q4150 – AlloWrap DS, pre-hydrated (wet), or dry, per sq cm.³



ActiShield

Amniotic Membrane

ActiShield is a dehydrated human amniotic membrane allograft used to cover and protect tissue, such as a wound covering or a physical barrier in a variety of surgical applications.

Wound adherence

Naturally wicks to the wound bed or site of repair.

Variation

Available in two membrane forms and thicknesses. ActiShield is a chorion-based membrane, while ActiShield CF offers an amnion only membrane. Both offer no side-specific orientation for implantation.

Processing

Proprietary HydraTek Technology, a unique and state-of-the-art process that preserves key elements of native human placental tissue.⁴



BioSkin

Amniotic Wound Matrix

BioSkin is a dehydrated human amniotic membrane allograft used to cover and protect tissue for acute and chronic wounds.

Wound adherence

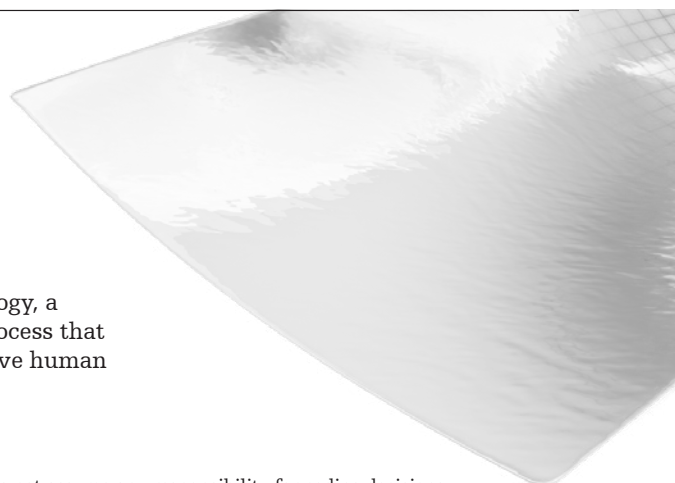
Naturally wicks to the wound bed or site of repair.

Reimbursement

Reimbursable in outpatient and ASC settings.³

Processing

Proprietary HydraTek Technology, a unique and state-of-the-art process that preserves key elements of native human placental tissue.⁴



3. This information is provided for information regarding Stryker's soft tissue products. Stryker does not assume any responsibility for coding decisions, nor does it recommend codes for specific patients or procedures.

4. Data on File at SKYE Biologics

Amniotics (continued)

ViaFlow

Flowable Placental Tissue Matrix

ViaFlow is a flowable placental tissue matrix for use in a variety of surgical applications to supplement or replace damaged or inadequate connective tissue.

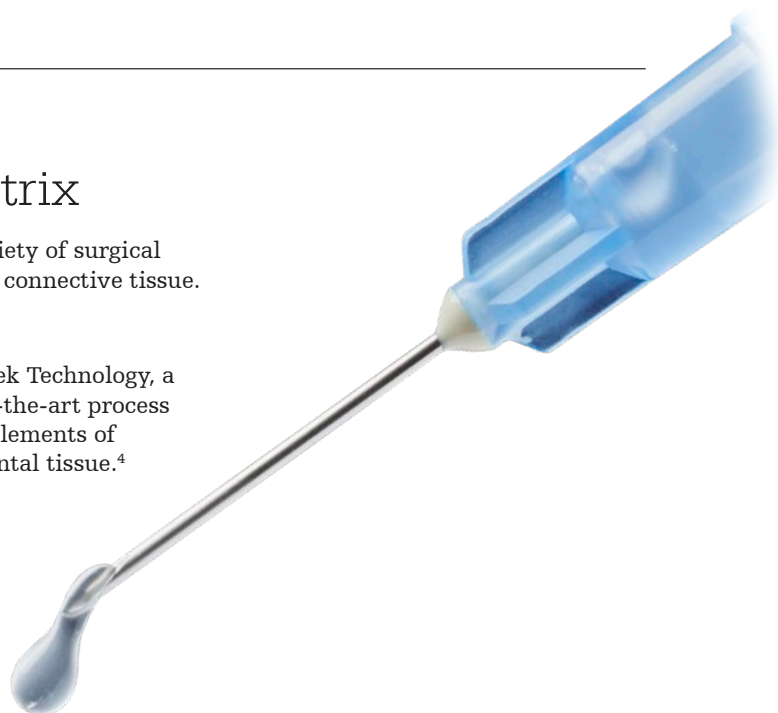
Variation

ViaFlow provides a well-preserved extracellular matrix (ECM) scaffold at a room temperature format. ViaFlow C takes that technology in a cryopreserved format.

Processing

Proprietary HydraTek Technology, a unique and state-of-the-art process that preserves key elements of native human placental tissue.⁴

4. Data on File at SKYE Biologics



Cartilage

ProChondrix CR

Cryopreserved Fresh Osteochondral Allograft

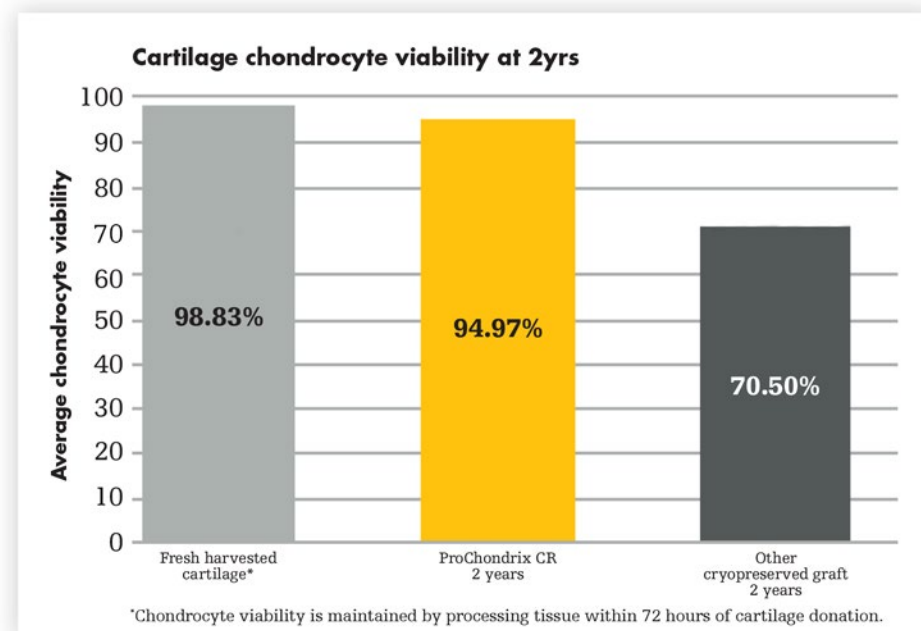
ProChondrix CR is a cryopreserved, viable hyaline cartilage allograft that contains live cells and other biological components for the repair of damaged articular cartilage.⁶

Ease of use

ProChondrix CR is a single-stage, natural solution for cartilage repair, offering a flexible and trimmable graft for easy manipulation during implantation.

Biologically tested

Contains viable chondrocytes, native growth factors, and an intact, laser etched, extracellular matrix to aid in the cartilage repair process.⁵



5. Delaney, R, Barrett, C, Stevens, P. AlloSource, Centennial, CO. ProChondrix Cartilage Restoration Matrix Contains Growth Factors Necessary for Hyaline Cartilage Regeneration.

6. ProChondrix CR Package Insert M1S2662.01

Nerve repair

NeuroMatrix

Collagen Nerve Conduit

NeuroMatrix is the first generation nerve conduit in the Stryker portfolio.

Designed for peripheral nerve repair

- Designed to provide an encasement for peripheral nerve injuries and protection of the neural environment.
- Semi-permeable structure allows diffusion of nutrients and neurotrophic factors into the conduit, and provides a barrier to larger, scar-forming cells.^{11,15}
- Type I Collagen is better accepted by soft tissue than PGA-based conduits.
- Expected to completely resorb in about 8 months after implantation.^{8,11,15}

Alternative to autograft

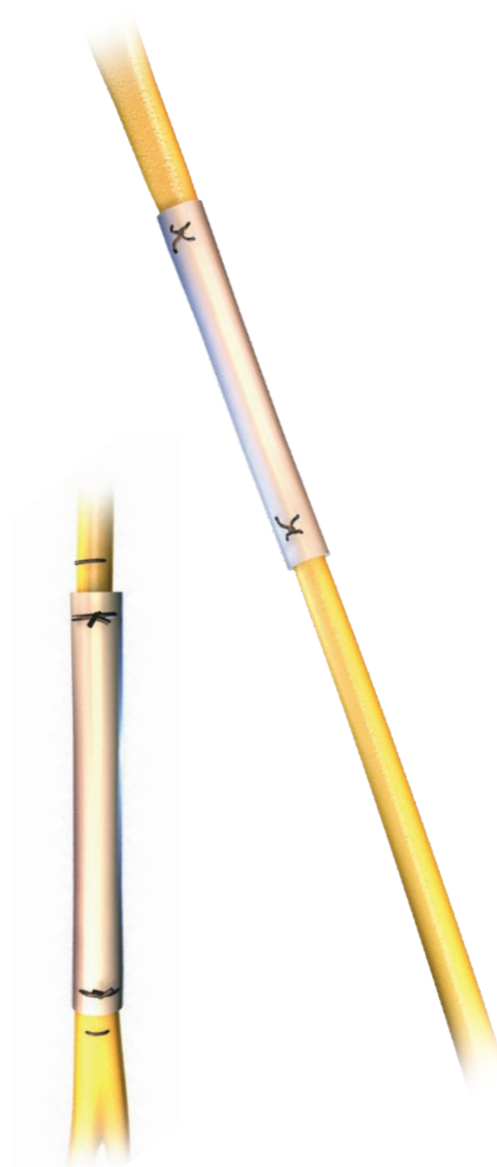
- Use of NeuroMatrix or Neuroflex removes the risk of donor-site morbidity, scarring, and neuroma formation.^{9,10}
- Eliminates the OR time required for harvesting an autograft.¹⁰

Efficiency

- Offers an efficient entubulation technique.
- Room temperature storage and three-year shelf life.
- Six standard sizes allow for accurate size-matching.

Tensionless repair

- Use of a nerve conduit offers a tensionless repair option when direct suture is not possible.¹⁰
- Studies suggest that regenerating axons accurately align themselves across a confined gap without the approximation of nerve fascicles.^{7,10,11}



7. Li ST. Peripheral Nerve Repair with Collagen Conduits. *Clinical Materials* 9 (1992) 195-200.

8. In vitro data on file with Collagen Matrix, Inc.

9. Taras, John, Vipul Nanavati, and Pamela Steelman. "Nerve Conduits." *Journal of Hand Therapy* 18.2 (2005): 191-97.

10. Weber, Robert, Warren Breidenbach, Richard Brown, Michael Jabaley, and Daniel Mass. "A Randomized Prospective Study of Polyglycolic Acid Conduits for Digital Nerve Reconstruction in Humans." *Plastic and Reconstructive Surgery* 106.5 (2000): 1036-045.

11. The results of preclinical and in vitro studies may not be indicative of human clinical outcomes.

12. Gould, John S. Use of Collagen Conduits in Management of Painful Neuromas of the Foot. *Science, Technology, Innovation*, Dec. 2015.

13. Li St., Yuen D., Jenssen JR., A semipermeable, Kink Resistant Type I Collagen-based Nerve Guide for PNS Repair. Collagen Matrix, Inc. 2003.

14. Animal study data on file at Collagen Matrix, Inc.

15. Waitayawinu T, Parisi D, Miller B, Luria S, Morton H, Chin S, Trumble T. A Comparison of Polyglycolic Acid Versus Type I Collagen Bioabsorbable Nerve Conduits in a Rat Model: An Alternative to Autografting. *Journal of Hand Surgery* 2007 Dec; Vol. 32A No. 10:1521-9.

Nerve repair (continued)

Neuroflex

Flexible Collagen Nerve Conduit

Neuroflex maintains all of the characteristics of NeuroMatrix with the addition of enhanced flexibility.

Flexible

- When flexed, Neuroflex has been shown to bend up to approximately 60 degrees without forming an occlusion.¹³
- Corrugated sides allow for additional flexibility.

Variety of clinical applications

- First nerve conduit with an indication to reduce the formation of symptomatic or painful neuromas.¹²
- Designed to be an interface between the nerve and the surrounding tissue to prevent the ingrowth of scar tissue.



Nerve protection

NeuroMend

Collagen Nerve Wrap

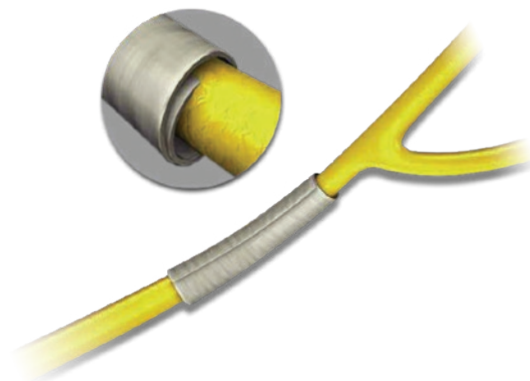
NeuroMend offers protective environment around injured peripheral nerves.

Designed for nerve protection

- NeuroMend provides an interface between the nerve and surrounding tissue.
- Composed of semi-permeable, biocompatible, Type I Collagen which is completely resorbable.⁷

Self-curling design

- Allows for 25% of the conduit to wrap over itself, potentially eliminating the need for a running suture.
- Designed to unroll and self-curl to better match the dimensions of the nerve and offers the ability to wrap nerves from 2.0mm to 12.0mm in diameter.¹²



Wrap size	Diameter or injury	Max diameter (no overlap)
4mm	2.0-3.0mm	4.0mm max
6mm	3.0-4.5mm	6.0mm max
12mm	6.0-9.0mm	12mm max

Ordering info

AlloWrap DS

3102-2002	.....AlloWrap DS, Wet	.....2×2cm
3102-2004	.....AlloWrap DS, Wet	.....2×4cm
3102-2006	.....AlloWrap DS, Wet	.....4×4cm
3102-2008	.....AlloWrap DS, Wet	.....4×8cm

3102-2010	.....AlloWrap DS, dried	.....2×2cm
3102-2012	.....AlloWrap DS, dried	.....2×4cm
3102-2014	.....AlloWrap DS, dried	.....4×4cm
3102-2016	.....AlloWrap DS, dried	.....4×8cm

ActiShield

AM202X04	.....ActiShield	.....2×4cm
AM204X04	.....ActiShield	.....4×4cm
AM204X08	.....ActiShield	.....4×8cm

AM452X04	.....ActiShield CF	.....2×4cm
AM454X04	.....ActiShield CF	.....4×4cm
AM454X08	.....ActiShield CF	.....4×8cm

BioSkin

WA202X02	.....BioSkin	.....2×2cm
WA202X03	.....BioSkin	.....2×3cm
WA202X04BioSkin2×4cm
WA204X04BioSkin4×4cm

WA20D015BioSkin DISC15mm
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ViaFlow

AMAF0005ViaFlow0.5cc
AMAF0010ViaFlow1.0cc
AMAF0020ViaFlow2.0cc

AMCF0010ViaFlow C1.0cc
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NeuroMatrix

CNC2025NeuroMatrix 2.5cm Length2.0mm (DIA)
CNC2525NeuroMatrix 2.5cm Length2.5mm (DIA)
CNC3025	.....NeuroMatrix 2.5cm Length	.....3.0mm (DIA)
CNC4025	.....NeuroMatrix 2.5cm Length	.....4.0mm (DIA)
CNC5025	.....NeuroMatrix 2.5cm Length	.....5.0mm (DIA)
CNC6025	.....NeuroMatrix 2.5cm Length	.....6.0mm (DIA)

Neuroflex

CNCF2025	.....Neuroflex 2.5cm Length	.....2.0mm (DIA)
CNCF2525	.....Neuroflex 2.5cm Length	.....2.5mm (DIA)
CNCF3025	.....Neuroflex 2.5cm Length	.....3.0mm (DIA)
CNCF4025	.....Neuroflex 2.5cm Length	.....4.0mm (DIA)
CNCF5025	.....Neuroflex 2.5cm Length	.....5.0mm (DIA)
CNCF6025	.....Neuroflex 2.5cm Length	.....6.0mm (DIA)

NeuroMend

CNW4025	.....NeuroMend 2.5cm Length	.....4mm (DIA)
CNW4050	.....NeuroMend 5.0cm Length	.....4mm (DIA)
CNW6025	.....NeuroMend 2.5cm Length	.....6mm (DIA)
CNW6050	.....NeuroMend 5.0cm Length	.....6mm (DIA)
CNW12025	.....NeuroMend 2.5cm Length	.....12mm (DIA)
CNW12050	.....NeuroMend 5.0cm Length	.....12mm (DIA)

GraftJacket NOW

Thin (.04-1.0mm Thickness)

86102X04	.....GraftJacket NOW thin	.....2×4cm
86104X04	.....GraftJacket NOW thin	.....4×4cm
86104X08	.....GraftJacket NOW thin	.....4×8cm

Thin meshed 1:1 (.04-1.0mm Thickness)

861M5X05	.....GraftJacket NOW thin meshed	.....5×5cm
861M5X08	.....GraftJacket NOW thin meshed	.....5×8cm
861M8X16	.....GraftJacket NOW thin meshed	.....8×16cm

Standard (1.0-2.0mm Thickness)

86202X04	.....GraftJacket NOW standard	.....2×4cm
86204X04	.....GraftJacket NOW standard	.....4×4cm
86202X12	.....GraftJacket NOW standard	.....2×12cm
86204X08	.....GraftJacket NOW standard	.....4×8cm

Thick (2.0-3.3mm Thickness)

86304X04	.....GraftJacket NOW thick	.....4×4cm
86304X08	.....GraftJacket NOW thick	.....4×8cm

ProLayer Xenograft

(1.1mm +/- .5mm Thickness)

3102-2125	.....ProLayer Xenograft	.....2×5cm
3102-2144	.....ProLayer Xenograft	.....4×4cm
3102-2147	.....ProLayer Xenograft	.....4×7cm
3102-2151	.....ProLayer Xenograft	.....5×10cm

ProChondrix CR

3102-2711CR	.....ProChondrix CR	.....11mm
3102-2713CR	.....ProChondrix CR	.....13mm
3102-2715CR	.....ProChondrix CR	.....15mm
3102-2717CR	.....ProChondrix CR	.....17mm
3102-2720CR	.....ProChondrix CR	.....20mm

58160-11	.....ProChondrix Instruments	.....11mm
58160-13	.....ProChondrix Instruments	.....13mm
58160-15	.....ProChondrix Instruments	.....15mm
58160-17	.....ProChondrix Instruments	.....17mm
58160-20ProChondrix Instruments20mm

58161-01ProChondrix Sizer SetAll sizes
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Trauma & Extremities

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Stryker Orthopaedics
325 Corporate Drive
Mahwah, NJ 07430

Stryker
1023 Cherry Road
Memphis, TN 38117

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