

Peripheral nerve repair solutions

Soft tissue portfolio



Nerve conduit portfolio

NeuroMatrix Collagen Nerve Conduit

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

Designed for peripheral nerve repair

- Provides 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.^{1,7}
- Type 1 Collagen is better accepted by soft tissue than PGA-based conduits.¹⁰
- Expected to completely resorb in about 8 months after implantation.^{7,8}

Alternative to autograft

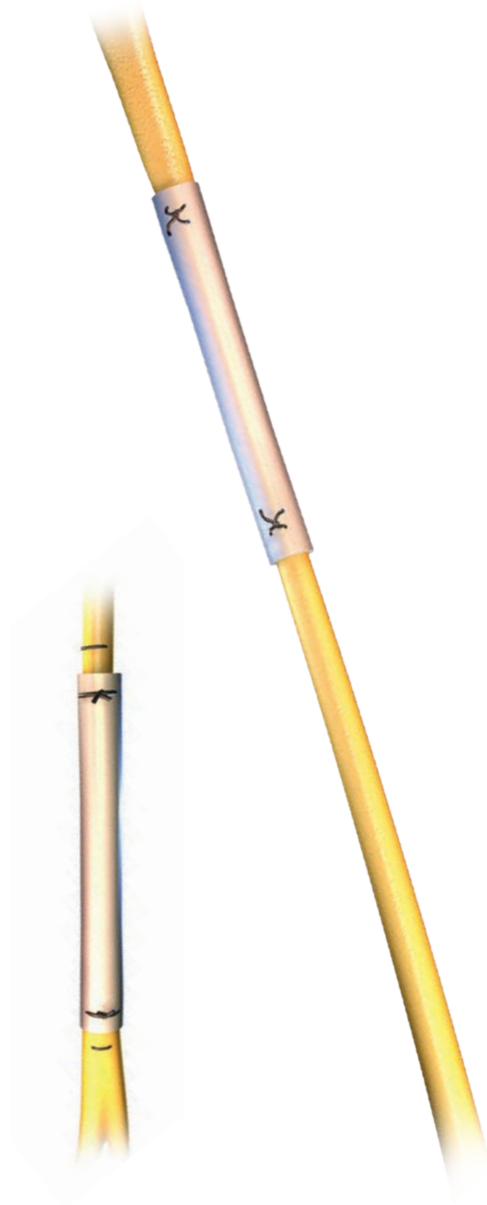
- Use of NeuroMatrix or Neuroflex removes the risk of donor-site morbidity, scarring, and neuroma formation.^{3,4}
- Eliminates the OR time required for harvesting an autograft.⁴

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.⁴
- Studies suggest that regenerating axons accurately align themselves across a confined gap without the approximation of nerve fascicles.^{1,4,7}



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.²
- Corrugated sides allow for additional flexibility.⁹

Variety of clinical applications

- First nerve conduit with an indication to reduce the formation of symptomatic or painful neuromas.⁵
- 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

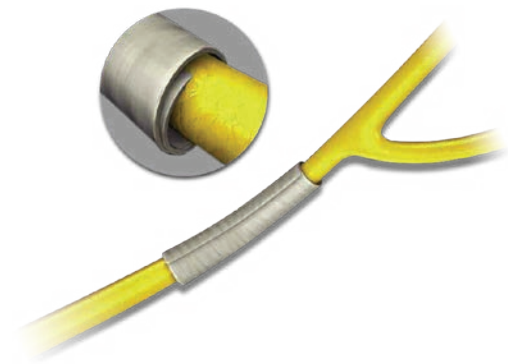
Provides a protective environment around injured peripheral nerves.

Designed for nerve protection

- NeuroMend provides an interface between the nerve and surrounding tissue.⁶
- Composed of semi-permeable, biocompatible, Type I Collagen which is completely resorbable.^{1,6}

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.



1. Li ST. Peripheral Nerve Repair with Collagen Conduits. *Clinical Materials* 9 (1992) 195-200.
2. Li St., Yuen D., Jenssen JR., A semipermeable, Kink Resistant Type I Colalgen-based Nerve Guide for PNS Repair. Collagen Matrix, Inc. 2003.
3. Taras, John, Vipul Nanavati, and Pamela Steelman. "Nerve Conduits." *Journal of Hand Therapy* 18.2 (2005): 191-97.
4. 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.
5. Collagen Matrix Press Release.
6. NeuroMend Instructions for Use MS326, Rev 1.
7. The results of preclinical and in vitro studies may not be indicative of human clinical outcomes
8. Animal study data on file at Collagen Matrix, Inc.
9. U.S. Patent #6,716,225, Implant Devices for Nerve Repair, 2004.
10. 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.

NeuroMatrix

Ref #	Inner diameter	Length
CNC2025	2.0mm	2.5cm
CNC2525	2.5mm	2.5cm
CNC3025	3.0mm	2.5cm
CNC4025	4.0mm	2.5cm
CNC5025	5.0mm	2.5cm
CNC6025	6.0mm	2.5cm



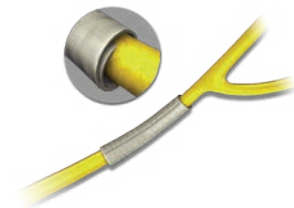
Neuroflex

Ref #	Inner diameter	Length
CNCF2025	2.0mm	2.5cm
CNCF2525	2.5mm	2.5cm
CNCF3025	3.0mm	2.5cm
CNCF4025	4.0mm	2.5cm
CNCF5025	5.0mm	2.5cm
CNCF6025	6.0mm	2.5cm



NeuroMend

Ref #	Wrap size	Length	Diameter of injured nerve
CNW4025	4.0mm	2.5cm	2.0 - 3.0mm* 4.0mm max (no overlap)
CNW4050	4.0mm	5.0cm	2.0 - 3.0mm* 4.0mm max (no overlap)
CNW6025	6.0mm	2.5cm	3.0 - 4.5mm* 6.0mm max (no overlap)
CNW6050	6.0mm	5.0cm	3.0 - 4.5mm* 6.0mm max (no overlap)
CNW12025	12.0mm	2.5cm	6.0 - 9.0mm* 12.0mm max (no overlap)
CNW12050	12.0mm	5.0cm	6.0 - 9.0mm* 12.0mm max (no overlap)



* 25% overlap is recommended - the max diameter requires the wrap to meet end-to-end which may require a running suture technique.

Trauma & Extremities

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