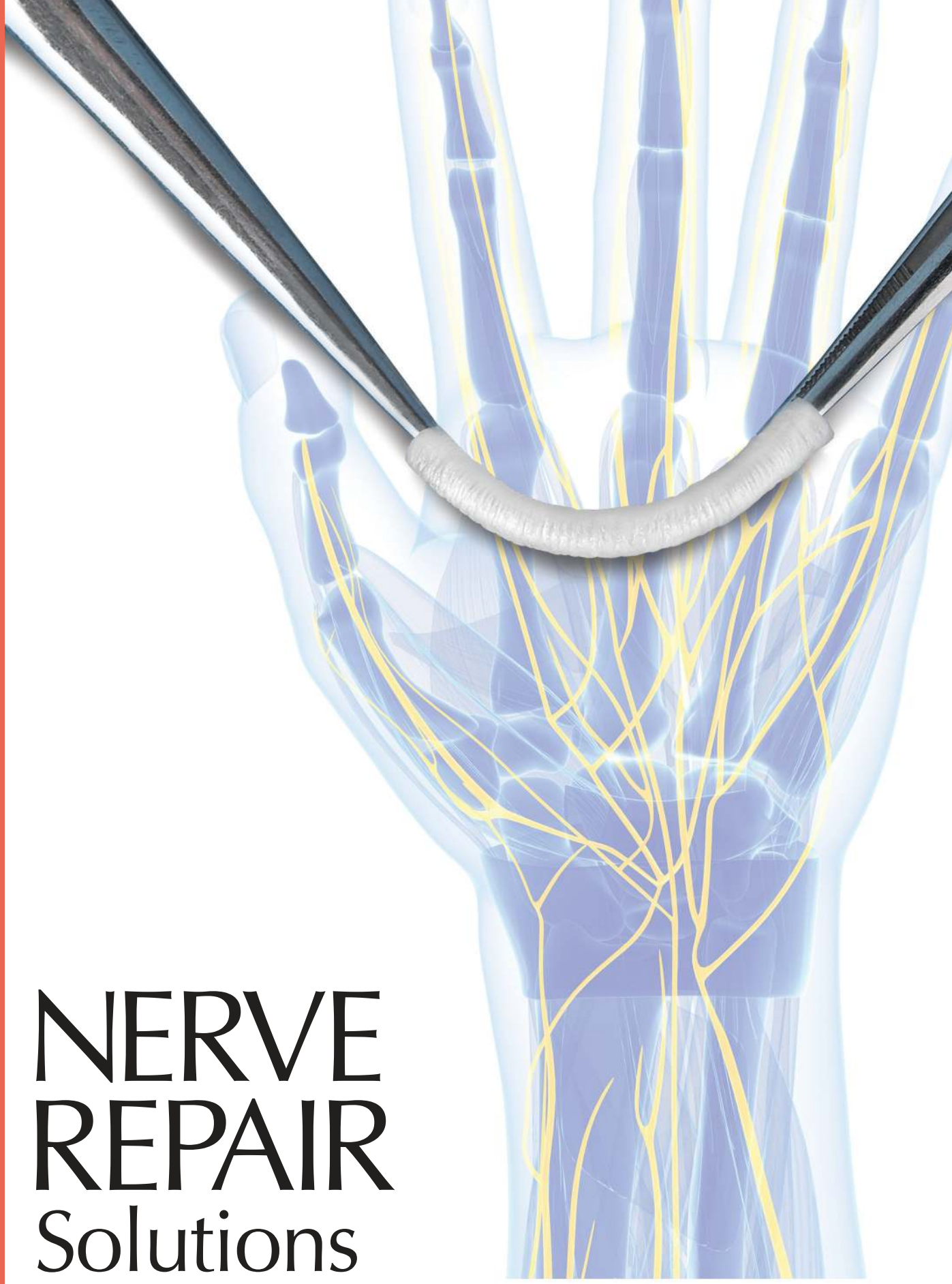
Nerve Repair

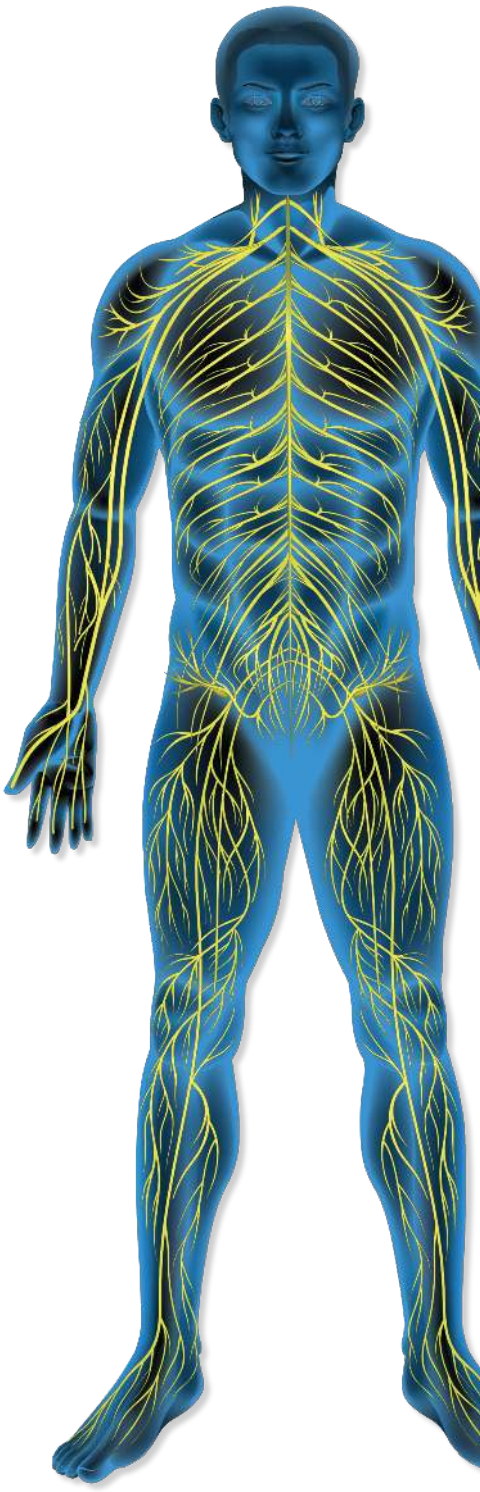


NERVE REPAIR Solutions

COLLAGEN MATRIX
SCIENCE • TECHNOLOGY • INNOVATION

Nerve Repair

The Proven Choice...



Why Use a Collagen Nerve Conduit or Wrap?

Guides Axon Regeneration Across a Short Gap

- Alignment of regenerating axons[1,2,6,7]

Resorbable and Biocompatible

- Resorbs through normal metabolic pathways in about 8 months[6,7]
- Type I collagen is better accepted by soft tissue than PGA-based conduits[4,7]

Semipermeable

- Allows small-sized nutrients and neurotrophic factors to pass through matrix[2, 5]
- Cell barrier for prevention of scar formation[2,5,7]

Convenient, Single Surgical Procedure

- No harvest of autograft needed
- Removes risk of donor-site morbidity, scarring, and neuroma formation[1]
- Saves operating room time and anesthesia[1]

Various Sizes Available, 3-year Shelf Life

- Easy size match vs. autograft
- Available when needed off the shelf
- Ease of inventory management

When to Use a Collagen Nerve Conduit or Wrap?

PRODUCT	NERVE INJURY TYPE*	WHEN TO USE*	ADVANTAGES	AVAILABILITY
Neuro*flex*® Conduit	Severed	Gap across a joint	Flexible, kink resistant	6 diameters, 1 length
NeuroMatrix® Conduit	Severed	Straight gap locations	Standard	6 diameters, 1 length
NeuroMend® Wrap	Crushed or Compressed	Compressed nerves	Self-curling with overlap	3 expandable diameters, 2 lengths

*See instructions for use of the products for specific indications.

Peripheral Nerve Repair Solutions



Neuro*flex*®
FLEXIBLE COLLAGEN NERVE CONDUIT



Flexible and kink resistant
- Bends to 60° without occlusion, standard conduits occlude at 20° [3]
- Corrugated sides allow for additional flexibility[5]

Severed injuries
- Ideal for a gap across a joint

NeuroMatrix®
STANDARD COLLAGEN NERVE CONDUIT



Tensionless repair
- Alleviates potential tension at repair site

Severed injuries
- Ideal for straight gap locations

NeuroMend®
COLLAGEN NERVE WRAP



Self-curling memory
- 25% overlap provides flexibility in diameter
- Reduces suturing

Protection of injured nerve
- Ideal for crush or compression injuries and partially severed nerves



COLLAGEN MATRIX
SCIENCE • TECHNOLOGY • INNOVATION

Nerve Repair

Product Information

Neuro*flex*®

FLEXIBLE COLLAGEN NERVE CONDUIT

CATALOG NO.	INNER DIAMETER	LENGTH
CNCF2025	2.0 mm	2.5 cm
CNCF2525	2.5 mm	2.5 cm
CNCF3025	3.0 mm	2.5 cm
CNCF4025	4.0 mm	2.5 cm
CNCF5025	5.0 mm	2.5 cm
CNCF6025	6.0 mm	2.5 cm

NeuroMatrix®

STANDARD COLLAGEN NERVE CONDUIT

CATALOG NO.	INNER DIAMETER	LENGTH
CNC2025	2.0 mm	2.5 cm
CNC2525	2.5 mm	2.5 cm
CNC3025	3.0 mm	2.5 cm
CNC4025	4.0 mm	2.5 cm
CNC5025	5.0 mm	2.5 cm
CNC6025	6.0 mm	2.5 cm

NeuroMend®

COLLAGEN NERVE WRAP

CATALOG NO.	MAXIMUM INNER DIAMETER *(no overlap)*	LENGTH	DIAMETER OF INJURED NERVE*	SELF CURLING DESIGN OF WRAP *(overlap)* *(no overlap)*
CNW4025	4.0 mm	2.5 cm	2 - 4 mm	
CNW4050	4.0 mm	5.0 cm	2 - 4 mm	
CNW6025	6.0 mm	2.5 cm	3 - 6 mm	
CNW6050	6.0 mm	5.0 cm	3 - 6 mm	
CNW12025	12.0 mm	2.5 cm	6 - 12 mm	
CNW12050	12.0 mm	5.0 cm	6 - 12 mm	

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

References:

1. Weber RA, Breidenbach WC, Brown RE, Jabaley ME, Mass DP. A Randomized Prospective Study of Polyglycolic Acid Conduits for Digital Nerve Reconstruction in Humans. *Plast Reconstr Surg* 2000 Oct;106(5):1036-45; discussion 1046-8.
2. Li ST, Archibald SJ, Krarup C, Madison RD. Peripheral Nerve Repair with Collagen Conduits, *Clinical Materials* 9 (1992) 195-200.
3. In vitro data on file at Collagen Matrix, Inc.
4. 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.
5. U.S Patent #6,716,225, Implant Devices for Nerve Repair, 2004.
6. Animal study data on file at Collagen Matrix, Inc.
7. The results of preclinical and in vitro studies may not be indicative of human clinical outcomes.

Neuroflex, NeuroMatrix and NeuroMend are all registered trademarks of and are manufactured by Collagen Matrix, Inc. Please refer to the Instructions for Use for description, indications, contraindications, warnings, precautions and other important information. A surgeon must always rely on his or her own professional clinical judgement when deciding whether or not to use a particular product when treating a particular patient. Availability of these products might vary from one given country or region to another as a result of specific local regulatory approval or clearance requirements for sale in such country or region.

MS544 Rev. 1A

COLLAGEN MATRIX
SCIENCE • TECHNOLOGY • INNOVATION

15 Thornton Road | Oakland, NJ 07436, USA | 201-405-1477
www.CollagenMatrix.com