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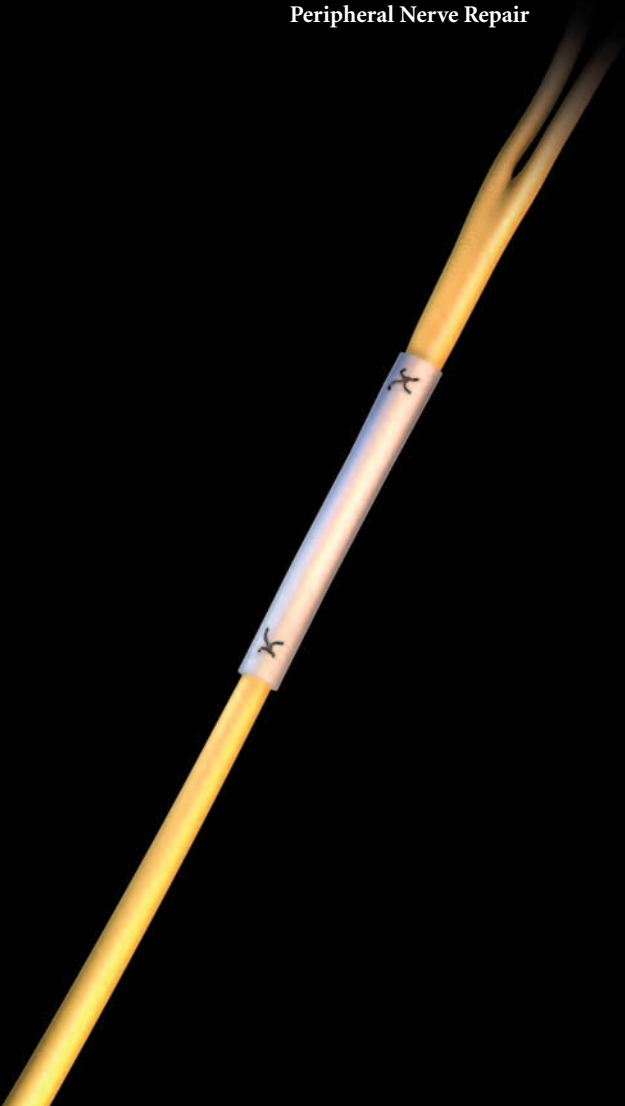
stryker®

Trauma

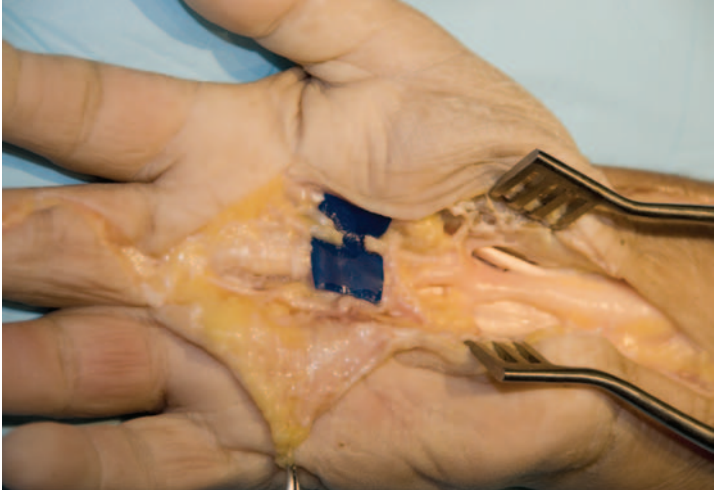
NeuroMatrix™

Type 1 Collagen Nerve Conduit

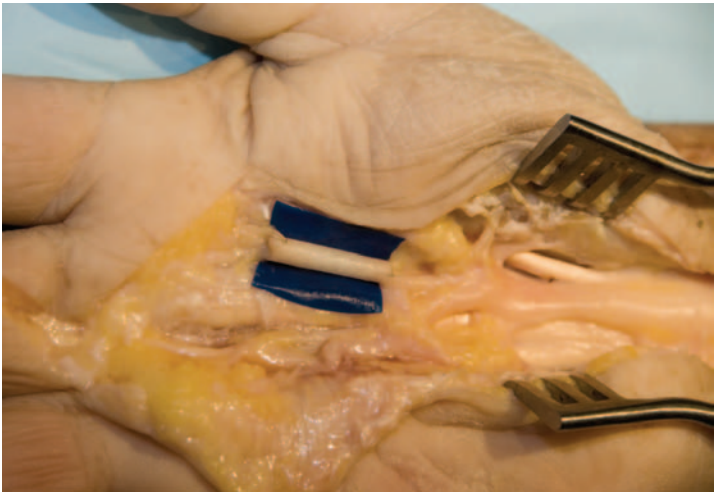
Peripheral Nerve Repair



Stryker's **NeuroMatrix**[™] Type 1 Collagen Nerve Conduits



Digital Nerve Injury



Digital nerve with NeuroMatrix[™] conduit

Nerve Repair. Without Compromise.

Stryker's NeuroMatrix™ conduit provides an effective, tensionless repair without associated autograft morbidity.

Nerve repair without the need to harvest an autograft

- Removes the risk of donor-site deficit, scarring, and neuroma formation²
- No additional OR time needed to harvest an autograft^{1,5}
- May reduce the need for additional anesthesia – often required with sural graft-harvest surgery

A tensionless repair for improved patient outcomes

- In many situations, a primary tensionless repair of the nerve is not possible, even with extensive mobilization. Extensive mobilization may also negatively influence the epineurial vasculature. The NeuroMatrix™ nerve conduit allows for a tensionless repair
- Studies suggest that regenerating axons accurately align themselves across a confined gap without the approximation of nerve fascicles^{5,6,7}
- Use of a conduit may allow for anatomic positioning postoperatively

Type 1 Collagen is the material of choice for peripheral nerve repair

- Semipermeable – allows small-sized nutrients and neurotrophic factors to pass, yet provides a barrier to larger, scar-forming cells⁶
- Very well received by soft tissue – collagen is noninflammatory⁹ and better accepted by soft tissue than PGA-based conduits^{2,7}
- Completely resorbable and degrades through normal metabolic pathways within three to six months after implantation¹¹

Dependable. Stryker's NeuroMatrix™ is ready when you are

- Conveniently available off-the-shelf at the time of surgery. Especially helpful when addressing severe trauma situations requiring multiple repairs
- Three-year shelf life provides greater stocking options
- Six standard sizes allow for accurate size-matching

Completely Stryker

The only collagen conduit for nerve repair brought to you by the team physicians turn to for clinical support and improving patient outcomes worldwide.



References:

1. Taras JS, Nanavati V, Steelman P. Nerve conduits. *J Hand Ther.* 2005 Apr-Jun;18(2):191-7. Review.
2. Trumble TE, Parisi D, Archibald S, Allan CH. Synthetic Nerve Conduits. pp 121-128 *Peripheral Nerve Surgery. Practical Applications in the Upper Extremity.* Slutsky and Hentz. Elsevier 2006
3. Liu HM. Collagens in Nervous Tissue, Chapter 11. In *Collagen.* Editor Marcel Nimni 2000. pp 243 - 256
4. Lundborg G, Dahlin LB, Danielson N, Nachemson AK. Tissue specificity in nerve regeneration. *Scand J Plast Reconstr Surg.* 1986;20:279-83.
5. Mackinnon SE, Dellon AL, Lundborg G, Hudson AR, Hunter DA. A study of neurotropism in a primate model. *J Hand Surgery [Am].* 1986;11:888-94.
6. Li, ST. Peripheral Nerve Repair with Collagen Conduits. *Clinical Materials* 9 (1992) 195-200
7. 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
8. Bostman O, Pihlajamaki H. Clinical Biocompatibility of biodegradable orthopaedic implants for internal fixation: a review. *Biomaterials* 21 (2000) pp2615-2621
9. Li ST, Rodkey WG, Yuen D, Hansen P, Steadman JR. Type I Collagen-Based Template for Meniscus Regeneration. *Tissue Engineering and Biodegradable Equivalents. Scientific and Clinical Applications.* 2002 pp 237-266
10. Rosen B, Lundborg G. Sensory re-education after nerve repair: aspects of timing. *Hanchir Mikrochir Plast Chir.* 2004;36:8-12.
11. Data on file at Collagen Matrix, Inc.

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325 Corporate Drive
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