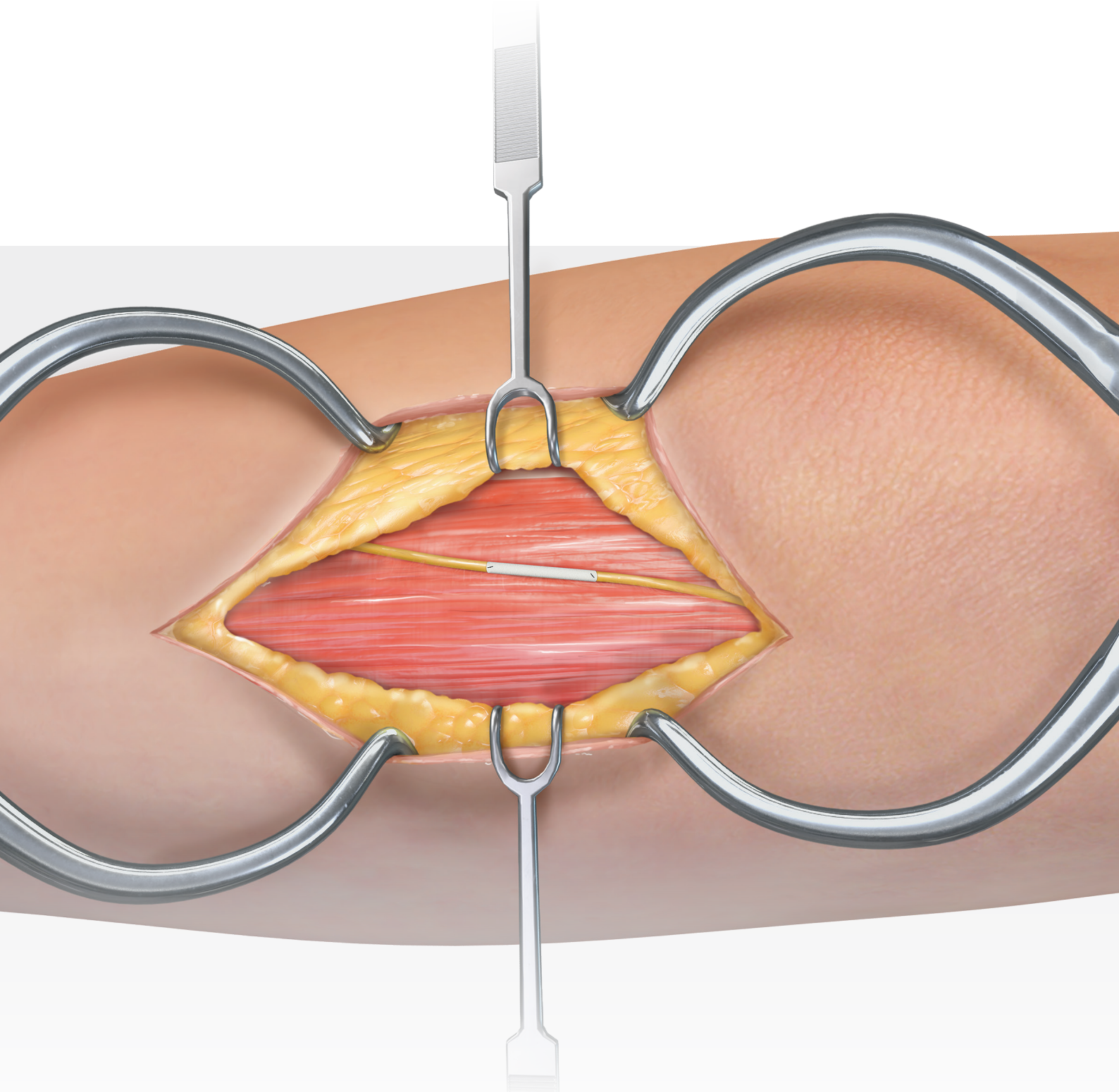
# Arthrex Nerve Conduit and Nerve Wrap

Surgical Technique



Arthrex®

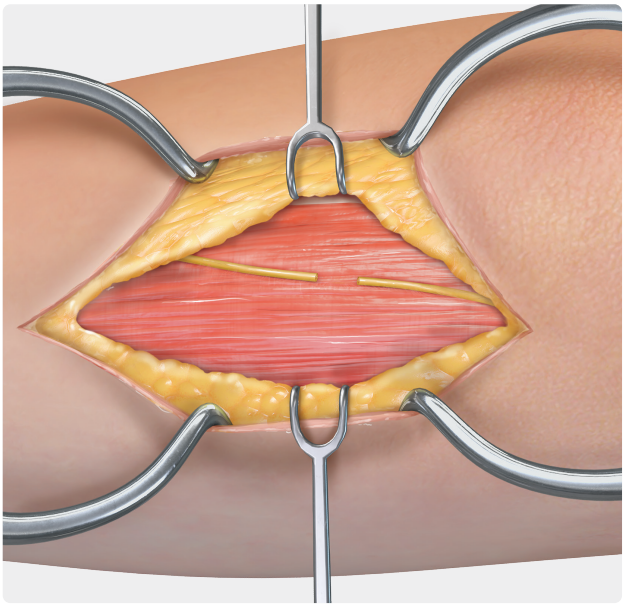
# Arthrex Nerve Solutions

## Introduction

Arthrex Nerve Conduit and Arthrex Nerve Wrap are indicated for severed or crushed nerve injuries. Both products are composed of type I bovine collagen and are provided sterile, shelf-stable, and with a 3-year shelf life. Once implanted, they typically resorb within 8 months.

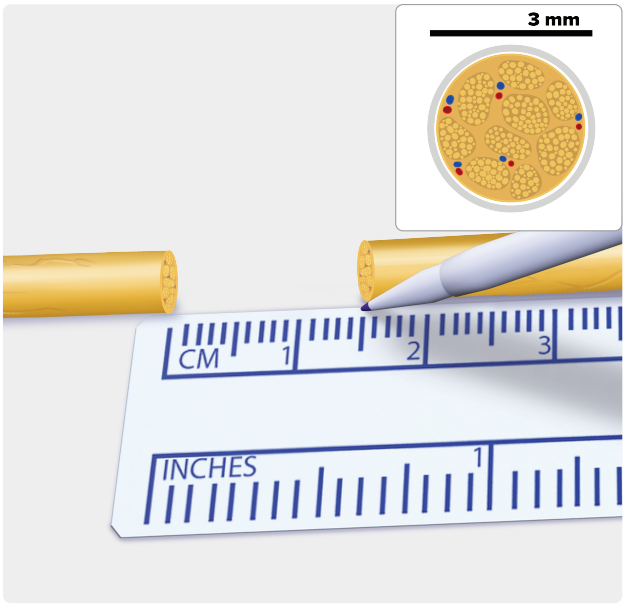

| Product | Nerve Injury Type | Indication | Advantages | Sizes |
|---|---|---|---|---|
| Arthrex Nerve Conduit **(a)** | Severed | Gap across transection site | Flexible, kink-resistant | 6 diameters, 1 length |
| Arthrex Nerve Wrap **(b)** | Crushed or compressed | Injured nerve or severed nerve that can be reapproximated | Self-curling with overlap | 3 expandable diameters, 2 lengths |

## Nerve Conduit Technique



**1**

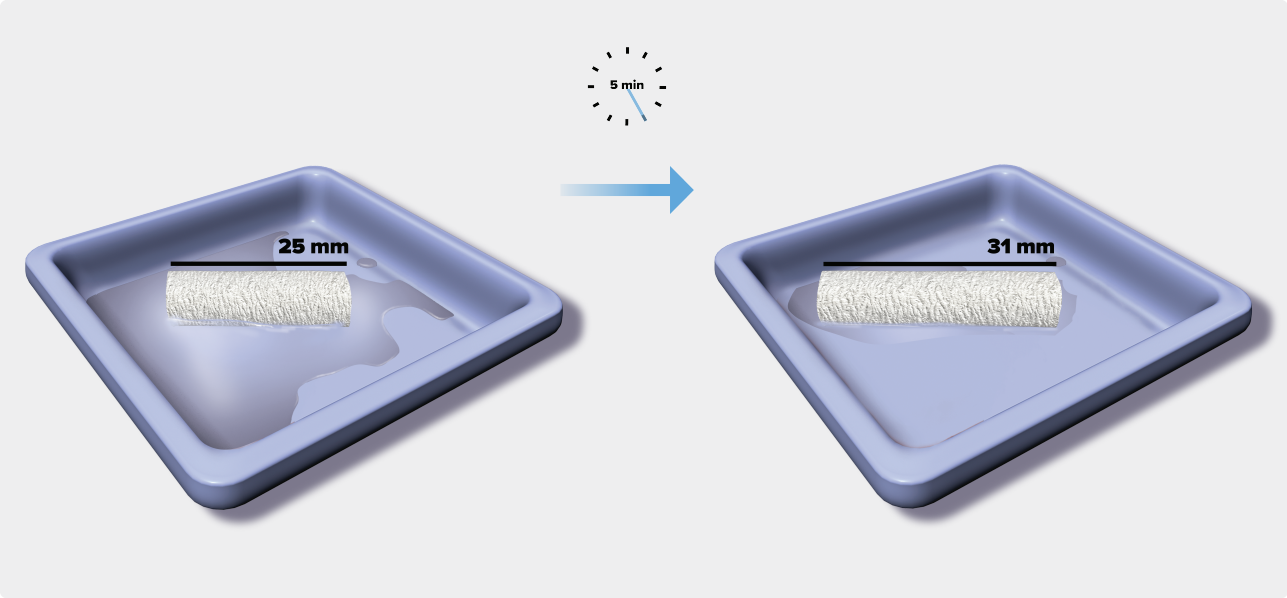
Expose the nerve at the appropriate incision site and prepare the nerve bed. Use visual and tactile cues to debride the proximal and distal segments of the injured nerve to normal tissue.




**2**

Select the appropriate length and diameter nerve conduit.

> **Note:** The maximum nerve gap should not exceed 1.5 cm.




**3**

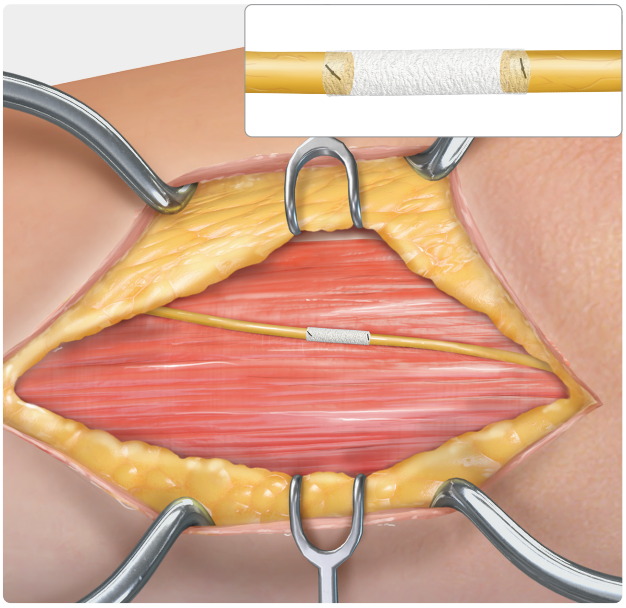
Hydrate the conduit in sterile physiological saline solution for 5 minutes. Upon hydration, the conduit will expand to approximately 20%-30% beyond its dry length.

After hydration, trim the conduit, ensuring at least 5 mm of overlap on the repaired nerve.

**4**

Suture the nerve into the conduit using a horizontal mattress suture technique. The conduit's flexible design facilitates easy handling and placement.

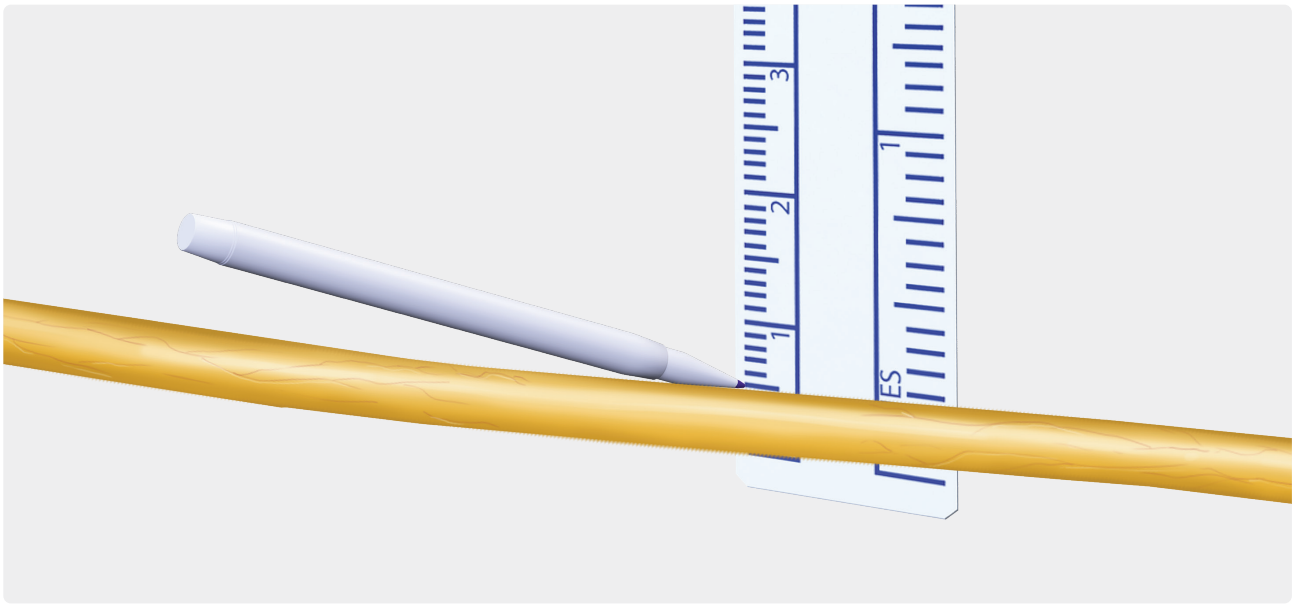
> **Note:** Throughout the procedure, ensure there is no tension on the peripheral nerve being repaired.



**5**

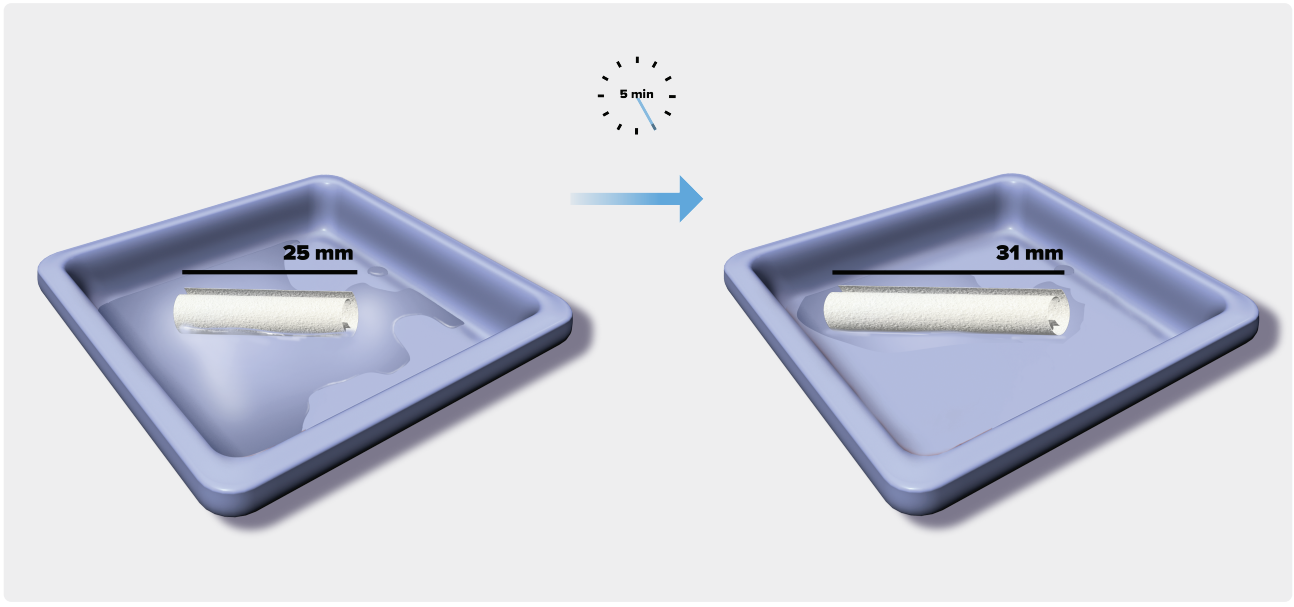
Final fixation.

## Nerve Wrap Technique



**1**

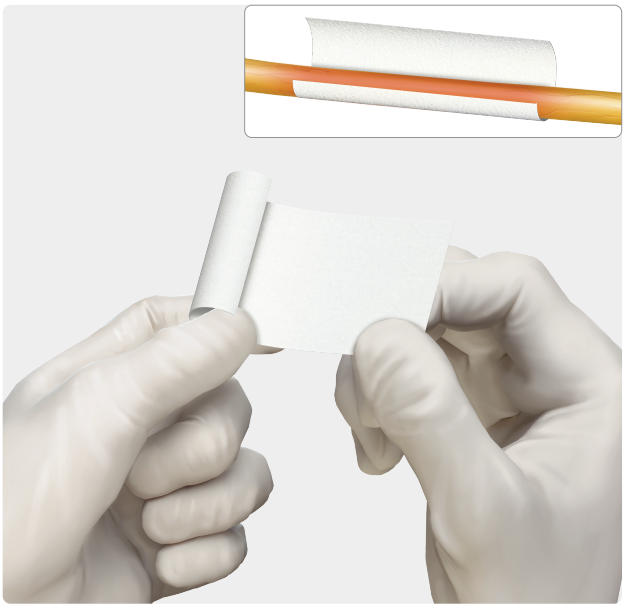
Select the appropriate diameter for the nerve wrap; 25% overlap is recommended.




**2**

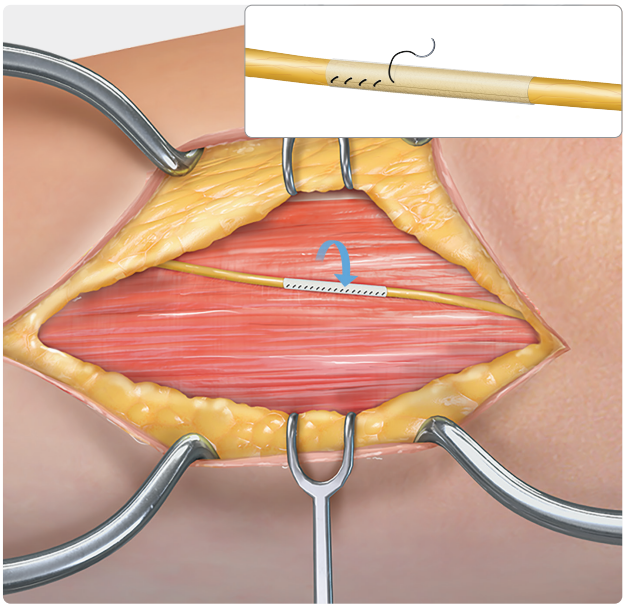
Hydrate the wrap in sterile physiological saline solution for 5 minutes. Upon hydration, the wrap will expand to approximately 20%-30% beyond its dry length.

After hydration, trim the conduit, ensuring at least 5 mm of overlap on the repaired nerve.



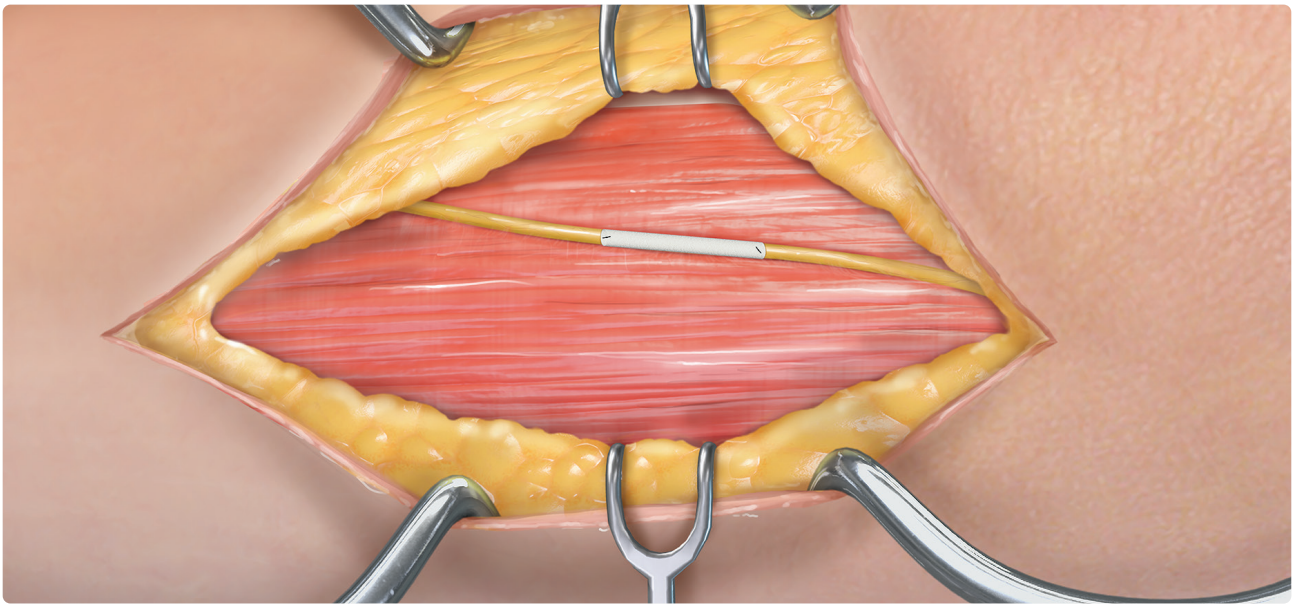
**3**

Unfurl the nerve wrap and wrap it around the injured nerve.



**4**

Secure the wrap around the nerve using a running suture, then rotate the wrap and suture away from the injured soft tissue and incision. Place stay sutures as needed to prevent migration.



**5**

The final construct is positioned with the sutures oriented away from the compromised soft tissue and surgical incision site.

# Ordering Information

**Arthrex Nerve Wrap**

| Item Number | Inner Diameter | Length |
|---|---|---|
| ABS-4025W | 4.0 mm | 2.5 cm |
| ABS-4050W | 4.0 mm | 5.0 cm |
| ABS-6025W | 6.0 mm | 2.5 cm |
| ABS-6050W | 6.0 mm | 5.0 cm |
| ABS-12025W | 12.0 mm | 2.5 cm |
| ABS-12050W | 12.0 mm | 5.0 cm |

**Arthrex Nerve Conduit**

| Item Number | Inner Diameter | Length |
|---|---|---|
| ABS-2025C | 2.0 mm | 2.5 cm |
| ABS-2525C | 2.5 mm | 2.5 cm |
| ABS-3025C | 3.0 mm | 2.5 cm |
| ABS-4025C | 4.0 mm | 2.5 cm |
| ABS-5025C | 5.0 mm | 2.5 cm |
| ABS-6025C | 6.0 mm | 2.5 cm |

Products advertised in this brochure/surgical technique guide may not be available in all countries. For information on availability, please contact Arthrex Customer Service or your local Arthrex representative.

## Arthrex Nerve Wrap

**Indications for Use**
Arthrex Nerve Wrap is indicated for the management of peripheral nerve injuries in which there has been no substantial loss of nerve tissue and where gap closure can be achieved by flexion of the extremity.

**Contraindications**
Arthrex Nerve Wrap is not designed, sold, or intended for use except as described in the indications for use and is contraindicated in patients with a known history of hypersensitivity to bovine-derived materials.

## Arthrex Nerve Conduit

**Indications for Use**
Arthrex Nerve Conduit is used for the management of peripheral nerve injuries in discontinuities where gap closure can be achieved by flexion of the extremity.

**Contraindications**
Arthrex Nerve Conduit is contraindicated in patients who have acute infections or have a contaminated wound in the immediate area surrounding the peripheral nerve discontinuity and in patients with a known history of allergic reactions to collagen and/or bovine-derived products.

**See package insert for complete warnings, precautions, and information for use.**

This description of technique is provided as an educational tool and clinical aid to assist properly licensed medical professionals in the usage of specific Arthrex products. As part of this professional usage, the medical professional must use their professional judgment in making any final determinations in product usage and technique. In doing so, the medical professional should rely on their own training and experience and should conduct a thorough review of pertinent medical literature and the product's directions for use. Postoperative management is patient-specific and dependent on the treating professional's assessment. Individual results will vary and not all patients will experience the same postoperative activity level or outcomes.

Arthrex manufacturer, authorized representative, and importer information (Arthrex eIFUs)

US patent information



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