



your surgical expertise,
our peripheral nerve injury solutions



revolutionizing the
science of nerve repair™

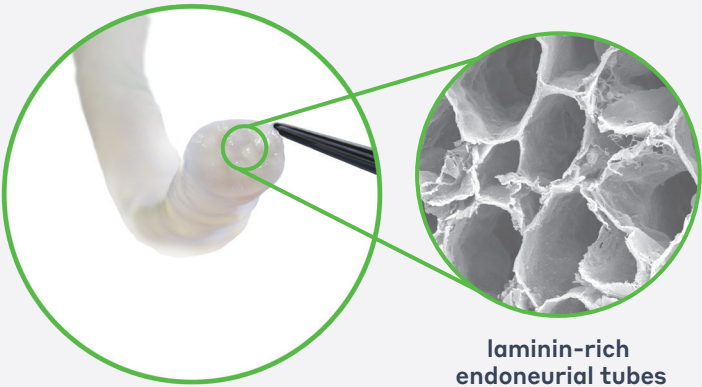


Peripheral nerve repair surgeons and health care providers understand the importance of innovative technologies that improve outcomes and positively impact patient lives.

The nerve repair space is constantly changing and Axogen is leading the science of restoring functionality to damaged nerves. We are passionate about helping restore quality of life to patients by providing innovative, clinically proven, and economically effective solutions.

Only Axogen offers a comprehensive suite of clinically proven solutions for your nerve repair needs – ranging from injured nerves in-continuity, to gaps over 70 mm, and non-reconstructable nerve ends. Depending on the injury, our technologies may be used alone or in conjunction with one another to produce the optimal outcome. Our technologies provide an option for surgeons to reconstruct injured nerves without the comorbidities associated with an additional surgical site.

Axogen is the only company solely dedicated to peripheral nerve repair and has been a pioneer in regenerative medicine. Together we can continue revolutionizing the science of nerve repair.



laminin-rich endoneurial tubes

The ONLY off-the-shelf biologically active processed human nerve allograft intended for the surgical repair of peripheral nerve discontinuities.

key advantages

Structural support for cellular migration and regenerating axons

- Preserves the 3-dimensional (3D) micro-architecture of native human nerve
- Organized, linear, and continuous scaffold across the length of the graft

Clinically proven, off-the-shelf solution


- 82% meaningful recovery in sensory, mixed, and motor nerve gaps in multi-center study¹
- Eliminates the comorbidities and operative time associated with a second surgical site
- Over 90 peer-reviewed clinical publications

Proprietary cleansing, decellularizing, and sterilizing process

- Preserves the extracellular matrix (ECM) of human nerve while removing inhibitors to axon regeneration
- Extensive testing to ensure the quality of the graft and guarantee identity, purity, potency, and safety
- Decellularization and sterilization methods ensure a safe product without the need for immunosuppression


Intra-operative versatility

- Available in a variety of lengths and diameters to meet a range of anatomical needs
- Handles, sutures, and flexes at joints similar to native nerve




82%

meaningful recovery throughout the body¹



#1

choice for hand surgeons in digital nerve gaps of 2 cm²



95%

meaningful recovery after neuroma excision and reconstruction¹

options for 5 mm to 70 mm



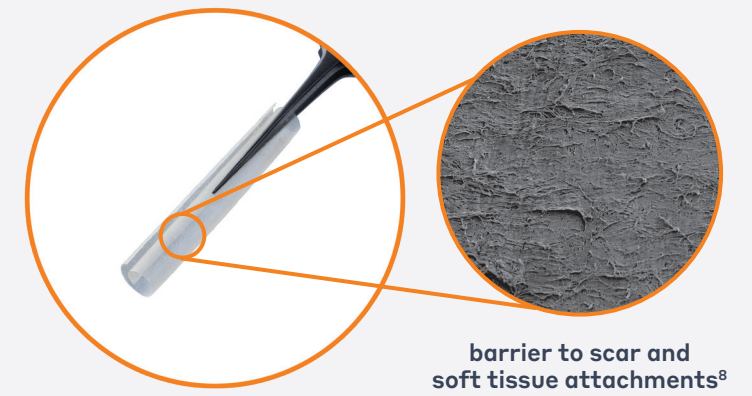
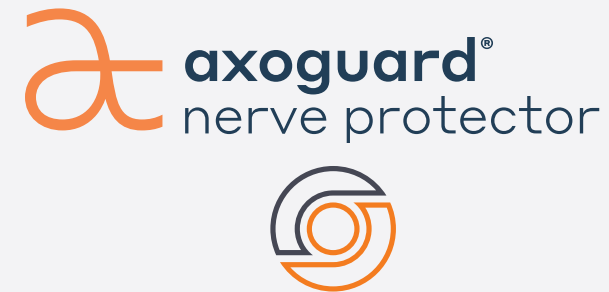
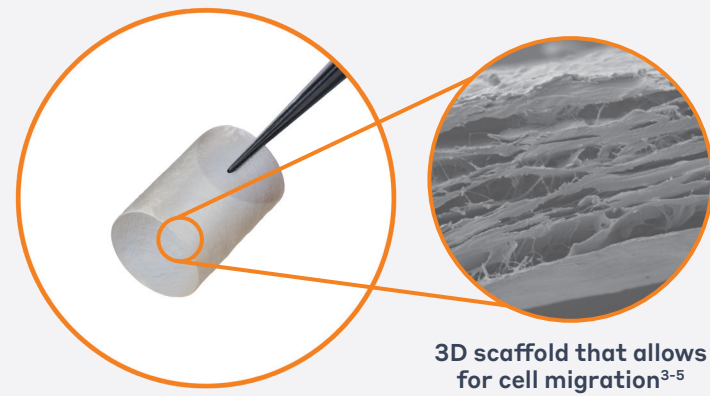
avance[®] nerve graft



avance[®] nerve graft + axoguard[®] nerve connector



avance[®] nerve graft + axoguard[®] nerve protector



Semi-translucent coaptation aid designed for Connector-Assisted Repair® (CAR) of transected nerves up to 5 mm.

key advantages

CAR alleviates tension and inflammation at the critical zone of regeneration^{6,7}

- Disperses tension across repair site
- Moves suture inflammation away from coaptation

CAR is a clinically proven alternative to direct suture repair⁶

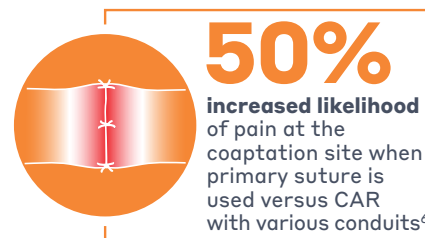
- Reduces the risk of forced fascicular mismatch
- Aids alignment of nerve ends
- Reduces the potential for axonal sprouting

Vascularizes and remodels

- Small intestine submucosa (SIS) incorporates into the patient's own tissue, creating a physical barrier to surrounding soft tissue^{6,8}
- Supports natural wound healing

Intra-operative versatility

- Available in a variety of lengths and diameters to meet a range of anatomical needs
- Reinforces the coaptation site of direct, graft, or cable graft repairs
- Off-the-shelf option, stored at room temperature with a minimum 18-month shelf life



The ONLY small intestine submucosa (SIS) implant designed to protect injured and compressed nerves up to 40 mm.

key advantages

Protects and separates

- Separates and protects the nerve from the surrounding tissues during the healing process
- Provides a protective barrier to axonal escape⁹

Allows for nerve gliding

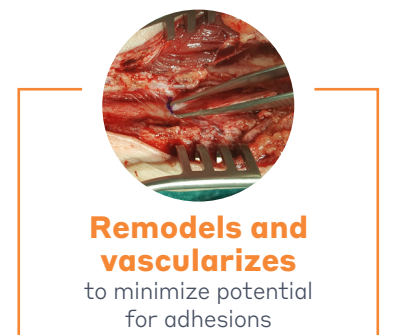
- Minimizes the potential for soft tissue attachment and nerve entrapment by protecting the nerve⁸

Vascularizes and remodels

- Small intestine submucosa (SIS) incorporates into the patient's own tissue, creating a physical barrier to surrounding structures^{10,11}
- Supports natural wound healing

Intra-operative versatility

- Available in a variety of lengths and diameters to meet a range of anatomical needs
- Off-the-shelf option, stored at room temperature with a minimum 18-month shelf life



option for 0 mm to 5 mm



options for 5 mm to 70 mm+

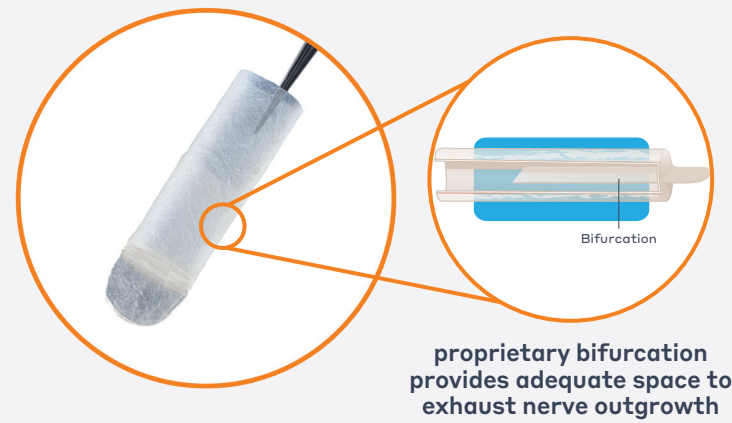


option for no transection or repaired nerve



options for 5 mm to 70 mm+





Proprietary SIS matrix designed to reduce the development of symptomatic or painful neuromas.

key advantages

Protects and isolates

- Reduces the development of painful neuromas¹²
- Provides a barrier from neurotrophic factors and mechanical stimulation

Vascularizes and remodels

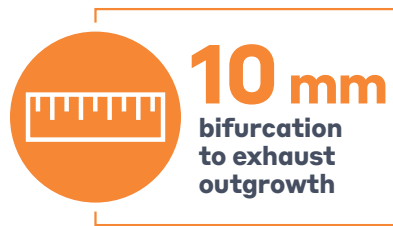
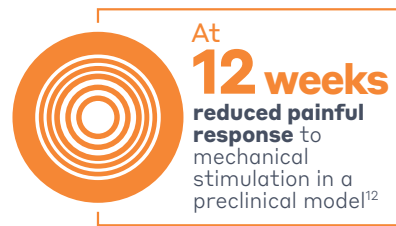
- Material gradually incorporates into patient's own tissue, creating a physical barrier to surrounding soft tissue^{3,10,11}

Intra-operative versatility

- Ideal for anatomic areas with limited or no musculature
- Alternative to historical techniques, such as burying in muscle or bone
- Available in a variety of diameters

Ideal handling

- End tab facilitates anchoring the device to surrounding tissue, away from the surgical incision and mechanical stimulation
- Off-the-shelf option, stored at room temperature with an 18 month shelf life



A minimally processed human umbilical cord membrane used as a resorbable covering to separate tissue layers.

key advantages

Smart processing

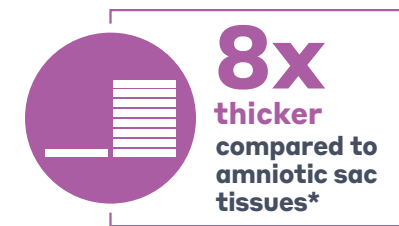
- Minimally processed to preserve the natural properties of umbilical cord amniotic membrane

Intra-operative versatility

- Can be used in conjunction with any other Axogen product, including all gap sizes and cases with no transection
- Amnion membranes are well characterized through clinical publications in various surgical applications

Ideal handling

- Conforms and stays in place at the application site and is easily repositioned if needed
- May be secured or simply laid on injured tissue for flexibility of use
- Stored at room temperature with a 24 month shelf life









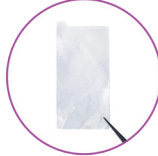



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*data on file

one company for all your surgical nerve repair solutions

 avance® nerve graft	 axoguard® nerve connector	 axoguard® nerve protector	 avive® soft tissue membrane	 axoguard® nerve cap
				
<p>Biologically active, processed human nerve allograft developed for bridging nerve discontinuities up to 70 mm</p>	<p>Semi-translucent coaptation aid for nerve transections up to 5 mm</p>	<p>Extracellular matrix that remodels to protect injured nerves and reinforce nerve reconstructions</p>	<p>Resorbable soft tissue covering to separate tissue layers for at least 16 weeks</p>	<p>Separates nerve end from surrounding environment to protect from mechanical stimulation and reduce painful neuroma formation</p>

Code	Dimensions	Code	Dimensions	Code	Dimensions	Code	Dimensions	Code	Dimensions
111215	1–2 mm x 15 mm	AGX110	1.5 mm x 10 mm	AG0220	2 mm x 20 mm	CA0102	1 cm x 2 cm	AGT215	2 mm x 15 mm
211215	2–3 mm x 15 mm	AGX210	2 mm x 10 mm	AG0320	3.5 mm x 20 mm	CA0202	2 cm x 2 cm	AGT315	3 mm x 15 mm
311215	3–4 mm x 15 mm	AGX310	3 mm x 10 mm	AG0520	5 mm x 20 mm	CA0204	2 cm x 4 cm	AGT415	4 mm x 15 mm
411215	4–5 mm x 15 mm	AGX410	4 mm x 10 mm	AG0720	7 mm x 20 mm	CA0304	3 cm x 4 cm		
111230	1–2 mm x 30 mm	AGX510	5 mm x 10 mm	AG1020	10 mm x 20 mm	CA0306	3 cm x 6 cm		
211230	2–3 mm x 30 mm	AGX610	6 mm x 10 mm	AG0340	3.5 mm x 40 mm				
311230	3–4 mm x 30 mm	AGX710	7 mm x 10 mm	AG0540	5 mm x 40 mm				
411230	4–5 mm x 30 mm	AGX115	1.5 mm x 15 mm	AG0740	7 mm x 40 mm				
111250	1–2 mm x 50 mm	AGX215	2 mm x 15 mm	AG1040	10 mm x 40 mm				
211250	2–3 mm x 50 mm	AGX315	3 mm x 15 mm						
311250	3–4 mm x 50 mm	AGX415	4 mm x 15 mm						
411250	4–5 mm x 50 mm	AGX515	5 mm x 15 mm						
111270	1–2 mm x 70 mm	AGX615	6 mm x 15 mm						
211270	2–3 mm x 70 mm	AGX715	7 mm x 15 mm						
311270	3–4 mm x 70 mm								
411270	4–5 mm x 70 mm								

indications and trademark disclaimers

Avance Nerve Graft

REGULATORY CLASSIFICATION: Avance Nerve Graft is a human tissue for transplantation. Avance Nerve Graft is processed and distributed in accordance with U.S. FDA requirements for human cellular and tissue-based products (HCT/P) under 21 CFR Part 1271 regulations, U.S. State regulations and the guidelines of the American Association of Tissue Banks (AATB). Additionally, international regulations are followed as appropriate.

This graft is to be dispensed only by or on the order of a licensed physician.

INDICATIONS FOR USE: Avance Nerve Graft is a processed nerve allograft (human) intended for the surgical repair of peripheral nerve discontinuities to support regeneration across the defect.

CONTRAINDICATIONS: Avance Nerve Graft is contraindicated for use in any patient in whom soft tissue implants are contraindicated. This includes any pathology that would limit the blood supply and compromise healing or evidence of a current infection.

Avive Soft Tissue Membrane

REGULATORY CLASSIFICATION: Avive Soft Tissue Membrane is processed and distributed in accordance with U.S. FDA requirements for human cellular and tissue-based products (HCT/P) under 21 CFR Part 1271 regulations, U.S. State regulations and the guidelines of the American Association of Tissue Banks (AATB). Additionally, international regulations are followed as appropriate. Avive Soft Tissue Membrane is to be dispensed only by or on the order of a licensed physician.

INDICATIONS FOR USE: Avive Soft Tissue Membrane is processed human umbilical cord intended for the surgical use as a resorbable soft tissue barrier.

CONTRAINDICATIONS: Avive Soft Tissue Membrane is contraindicated for use in any patient in whom soft tissue implants are contraindicated.

Axogen Corporation

Phone 888.Axogen1 (888.296.4361)

Fax 386.462.6801

customer@axogeninc.com

www.axogeninc.com

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Axoguard Nerve Connector

INDICATIONS FOR USE: Axoguard Nerve Connector is indicated for the repair of peripheral nerve discontinuities where gap closure can be achieved by flexion of the extremity. The device is supplied sterile and is intended for one-time use.

CONTRAINDICATIONS: This device is derived from porcine source and should not be used for patients with known sensitivity to porcine material.

Axoguard Nerve Protector

INDICATIONS FOR USE: Axoguard Nerve Protector is indicated for the repair of peripheral nerve injuries where there is no gap. The device is supplied sterile and is intended for one-time use.

CONTRAINDICATIONS: This device is derived from porcine source and should not be used for patients with known sensitivity to porcine material.

Axoguard Nerve Cap

INDICATIONS FOR USE: Axoguard Nerve Cap is indicated to protect a peripheral nerve end and to separate the nerve from surrounding environment to reduce the development of symptomatic or painful neuroma.

CONTRAINDICATIONS: This device is derived from porcine source and should not be used for patients with known sensitivity to porcine material. Axoguard Nerve Cap is contraindicated for use in any patient in whom soft tissue implants are contraindicated. This includes any pathology that would limit the blood supply and compromise healing or evidence of a current infection. Axoguard Nerve Cap should not be implanted directly under the skin.

NOTE: This device is not intended for use in vascular applications

Disclaimer: Not all products are available internationally.

revolutionizing the science of nerve repair™

