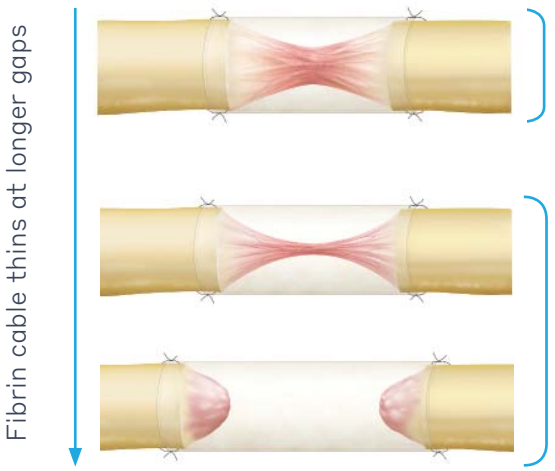
axogen®

Peripheral Nerve Bridging Materials: Using Clinical Evidence to Optimize Outcomes

revolutionizing the science of nerve repair™

conduits were designed as a coaptation aid, not as a bridging material

Conduits are hollow tubes, relying on the body to form a fibrin cable.

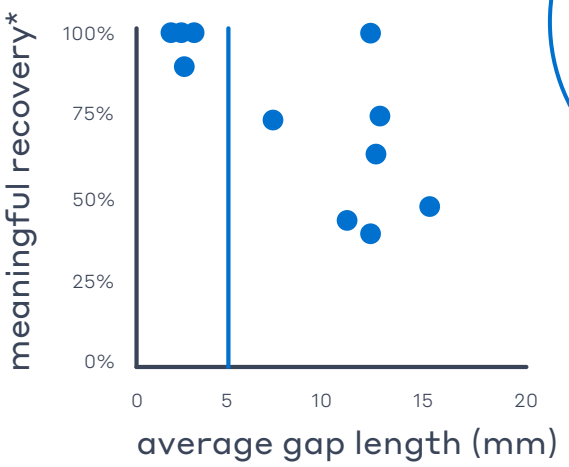


Originally designed to alleviate tension and reduce misalignment in short gaps less than 5 mm

What is the reliability with longer gaps?

conduits have a reliability threshold

Each datapoint represents one clinical publication in sensory nerve gaps.[1-10]



*Defined as S3 or higher.

In gaps above 5 mm, more than 1 in 3 conduits fail to achieve meaningful recovery.[1-10]

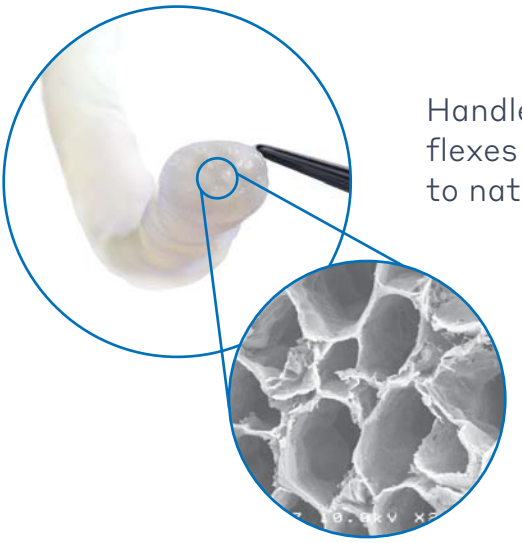
failures may result in:

- Lack of functional recovery
- Absence of protective sensation
- Revision procedure
- Chronic pain

put conduits back in their place as a coaptation aid in gaps 0–5 mm

avance® nerve graft was developed to bridge nerve gaps

It is a biologically active processed human nerve allograft that eliminates the comorbidities and operative time associated with a second surgical site.

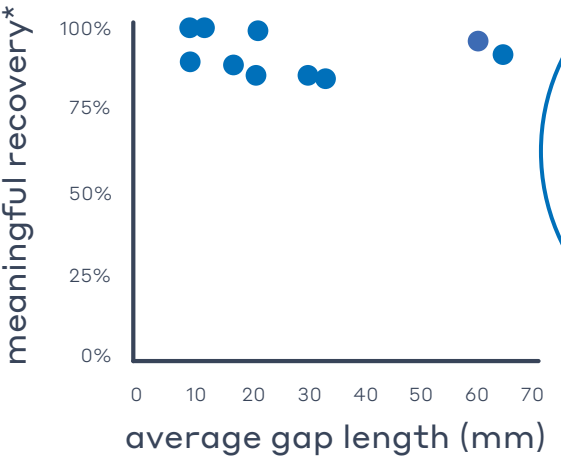


Handles, sutures and flexes at joints similar to native nerve

Laminin-rich endoneurial tubes guide regeneration

avance has demonstrated consistency and reliability

Each datapoint represents one clinical publication in sensory nerve gaps.[11-20]



*Defined as S3 or higher.

survey says...

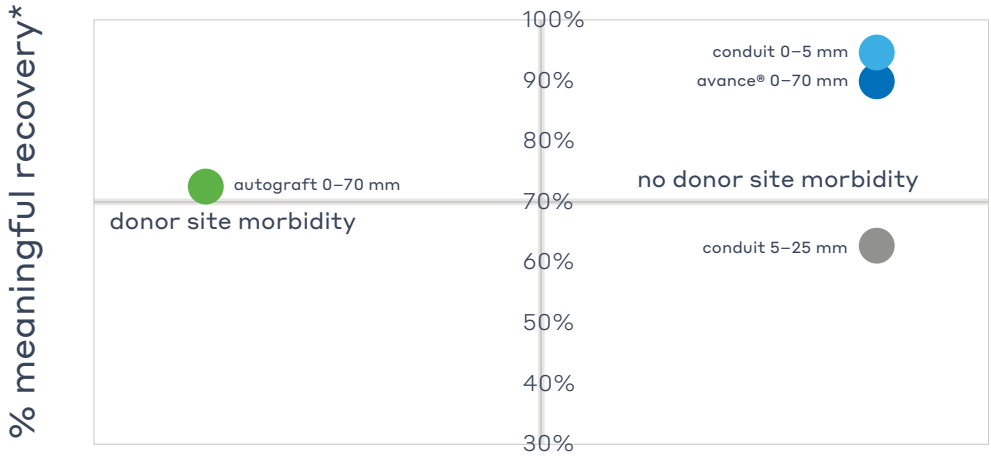
Avance is the preferred choice in digital nerve repair over conduit, autograft or vein graft.[21]

results of a survey of 461 hand surgeons with their method for repairing a 2 cm digital nerve gap

avance can be used to bridge peripheral nerve gaps up to 70 mm

summary of clinical outcomes

Evidence based algorithm avoids potential complications of autograft harvest, without sacrificing patient outcomes.



*Defined as S3 or higher. Data points derived from a weighted average of publications reporting meaningful recovery in sensory nerve gaps.[1-20,22-24]

references

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axogen's portfolio of products

options for no transection

1.  **axoguard**® nerve protector
2.  **avive**® soft tissue membrane

options for 0 mm to 5 mm

1. 
2. 

axoguard nerve connector

options for 0 mm to 70 mm

1.  **avance** nerve graft
2.  **avance** nerve graft + **axoguard** nerve connector
3.  **avance** nerve graft + **axoguard** nerve protector

options for 70 mm+

1.  **autograft** + **axoguard** nerve connector
2.  **autograft** + **axoguard** nerve protector

this is the new normal

At least 66 portfolio peer-reviewed publications

Over 2/3 of hand and microsurgery fellows were trained on this algorithm in 2018[25]

More than 700 active accounts[25]

Indications and Trademark Disclaimers

Avance Nerve Graft

REGULATORY CLASSIFICATION: Avance Nerve Graft is processed and distributed in accordance with US FDA requirements for Human Cellular and Tissue-based Products (HCT/P) under 21 CFR Part 1271 regulations, US State regulations and the guidelines of the American Association of Tissue Banks (AATB). Additionally, international regulations are followed as appropriate. Avance Nerve Graft is to be dispensed only by or on the order of a licensed physician.

INDICATIONS FOR USE: Avance Nerve Graft is 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.

Axoguard Nerve Connector

INDICATIONS FOR USE: United States: Axoguard Nerve Connector is intended for the repair of peripheral nerve discontinuities where gap closure can be achieved by flexion of the extremity.

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

Axoguard Nerve Protector

INDICATIONS FOR USE: United States: The 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 a porcine source and should not be used for patients with known sensitivity to porcine material.

Avive Soft Tissue Membrane

REGULATORY CLASSIFICATION: Avive Soft Tissue Membrane is processed and distributed in accordance with US FDA requirements for Human Cellular and Tissue-based Products (HCT/P) under 21 CFR Part 1271 regulations, US 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 umbilical cord intended for homologous use as a soft tissue covering.

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

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