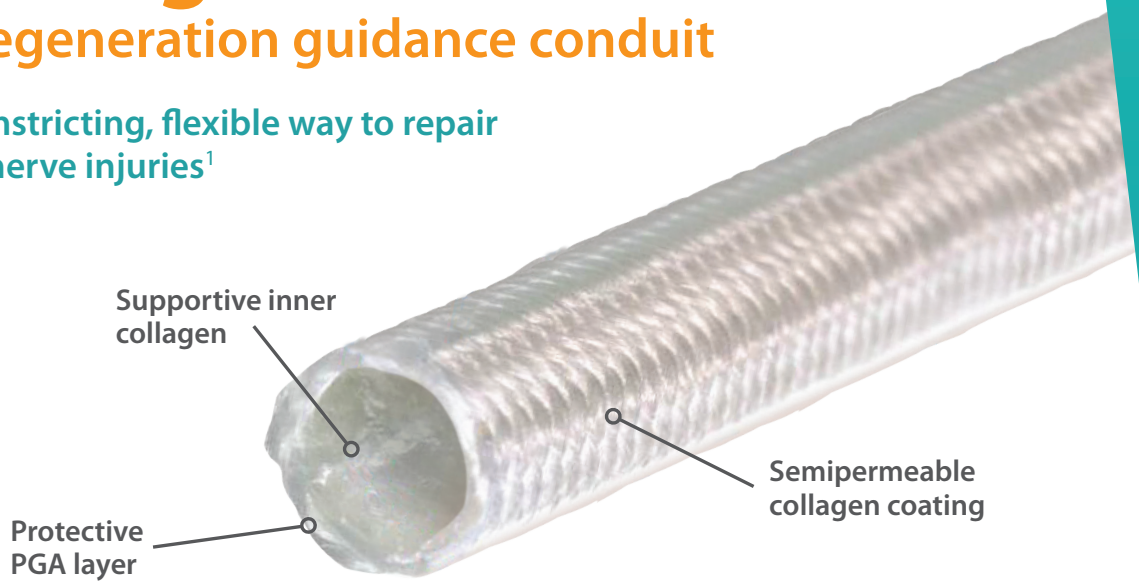
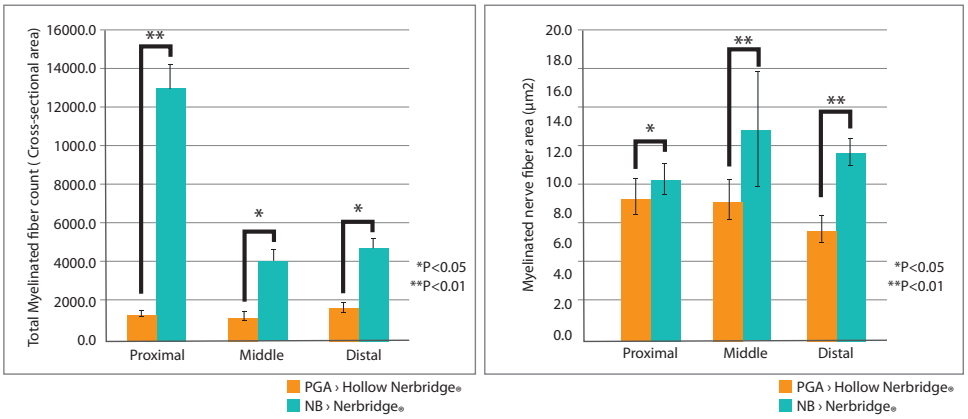
Nerbridge®

Nerve regeneration guidance conduit

The non-constricting, flexible way to repair peripheral nerve injuries[1]



Nerbridge® vs Hollow Nerbridge® Conduit , 12 wks, Rat Sciatic Nerve[2]



It's what's inside that counts

- Inner collagen sponge scaffold promotes growth of cells contributing to nerve regeneration[1]
- Semi-permeable walls allow pass through of oxygen and protein particles[1]
- Softens with hydration for flexible handling[1]
- Conveniently stored at room temperature[1]

*There may be a possibility of kinking if not implanted according to the Instructions for Use.

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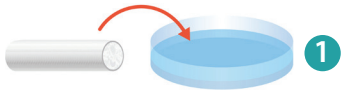
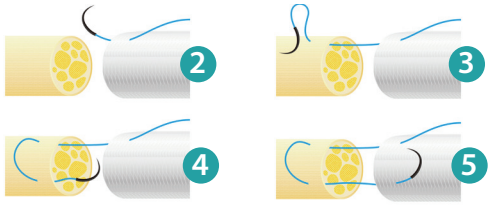
Straightforward suturing technique

1. Hydrate the Nerbridge® into the physiological saline.



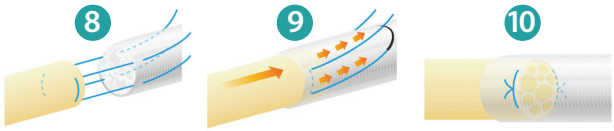
Suture the Nerbridge® and autologous nerve with suture.

2. Using non-absorbable monofilament nylon or polypropylene sutures from 6-0 to 10-0 sizes, suture the proximal side first. Pass the suture across the wall of Nerbridge® at the point about 1-2 mm from its end and from the outside to the inside. Take care not to damage the axons in suturing the epineurium.



3. Slowly rotate both the nerve stump and Nerbridge® by 180 degrees. And suture the reverse sides of Nerbridge® and the nerve stump in the same manner as above.

4. After this, gently draw the nerve stump into Nerbridge® by pulling the suture such that the nerve stump is drawn into Nerbridge®. A secure knot must be made in the suture, but be careful not to apply tension on the suture itself. Nerbridge® must be long enough to allow each nerve stump to be drawn into the lumen of Nerbridge® at a distance greater than or equal to the inner diameter of Nerbridge®. If needed, Nerbridge® may be cut to an appropriate length.



5. The suturing on the distal side should follow the same manner as that on the proximal side.

GEM Nerbridge Products

RN01025E	Nerbridge, 1.0 mmIDx25 mml
RN02025E	Nerbridge, 2.0 mmIDx25 mml
RN03025E	Nerbridge, 3.0 mmIDx25 mml
RN04025E	Nerbridge, 4.0 mmIDx25 mml

For further details, please visit the following URL or QR code for suturing the Nerbridge®.

URL https://**www.toyobo-global.com/products/ao/nerbridge/use/**

INDICATIONS FOR USE:
Nerbridge is intended for the repair of peripheral nerve injuries in which there is no gap or where a gap closure can be achieved by flexion of the extremity.

IMPORTANT RISK INFORMATION:
Use of Nerbridge is contraindicated for anyone with a known allergy to porcine derived materials and polyglycolic acid. Do not use the product in cerebrospinal dura mater. In the case of the implanted site close to the joint, immobilize the limb for 1 week at least to avoid disconnection of Nerbridge to nerve stumps and its breakage. Carefully implant Nerbridge at the location close to the joint to allow for postoperative rehabilitation. Otherwise, there may be a possibility of rearrangement and kinking of the product that may cause insufficient nerve reconstruction and joint contracture. Do not apply more than one Nerbridge device in a surgical procedure, because Nerbridge's effectiveness and safety have not been confirmed for multiple applications. The safety of early therapeutic exercise has not been confirmed when simultaneous application of the product and tendon suturing has occurred. Hemostasis of the nerve stumps must be achieved prior to placement of Nerbridge. A blood clot in the lumen of Nerbridge will impede axon growth. Nerbridge should be used with caution in infected regions.

Rx Only. For safe and proper use of the device, please refer to full Instructions for Use.

References: 1. Nerbridge Instructions for Use. **2.** Toyobo's in-house animal test data.

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