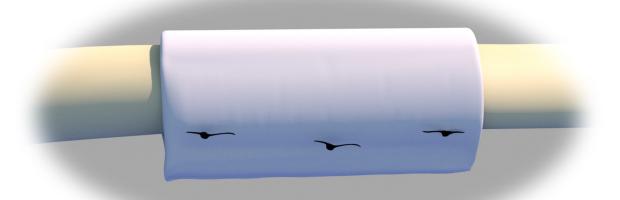


Refeel® Nerve Repair Solution

Surgical Technique



[60003. Rev 02] 01/04/2025

Caution

Prescription use only. Federal law (USA) restricts this device to sale by or on the order of a licensed healthcare practitioner. Read and understand all the information in these instructions.

Device Description

ReFeet® is a press-molded sheet of xerogel made by lyophilizing a gel made from Sodium Alginate, which is covalently cross-linked with Ethylene diamine, embedded with a Polyglycolic acid sheet. The sheet size is approximately 5.5 x 5.5 cm.

When used, the device is cut according to the size of the nerve axon injury site, and fixed in place to cover the nerve axon injury site.

ReFeel® is in a sheet form, and can cover the nerve injury site by folding. In addition, the sheets can be freely bent to fit areas that are not flat or smooth.

Indications/Intended Use

ReFeel® is indicated for the repair of peripheral nerve discontinuities where gap closure can be achieved by flexion of the extremity, or the management of peripheral nerve injuries in which there has been no substantial loss of nerve tissue.

Contraindications

ReFeel® is not designed, sold or intended for use except as described in the Indications/Intended use. ReFeel® is contraindicated in patients with:

- Known history of hypersensitivity to Alginate, Polyglycolic acid or ethylene diamine materials.
- Known history of allergic reactions to laminaria or seaweed derived products.
- Acute infections or have a contaminated wound in the immediate area surrounding the peripheral nerve discontinuity or injury.

Directions for Use

Note: Physicians should follow best clinical practices when performing peripheral nerve repair procedures. Clinical decisions are not affected by the information and references in these instructions for use.

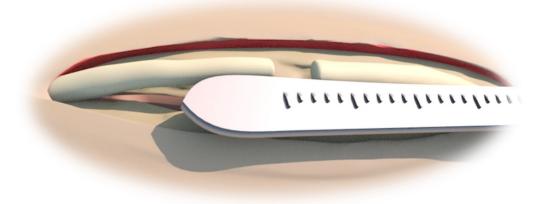
Warning: Do not submerge. Wet with fingers or use dry for optimal handling.



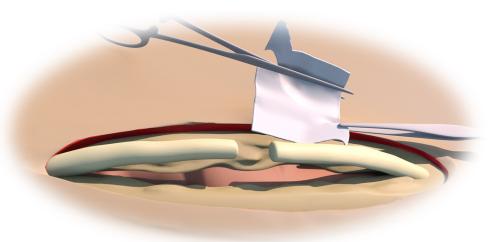
Technique 1: Repair of nerve with discontinuities

Step 1. Expose, isolate and prepare the nerve at the appropriate incision site according to physician's standard procedure.

Step 2. Determine the nerve diameter and the nerve gap distance in millimeters (mm) using a suitable measuring instrument. Assess the gap that could be closed by flexion.

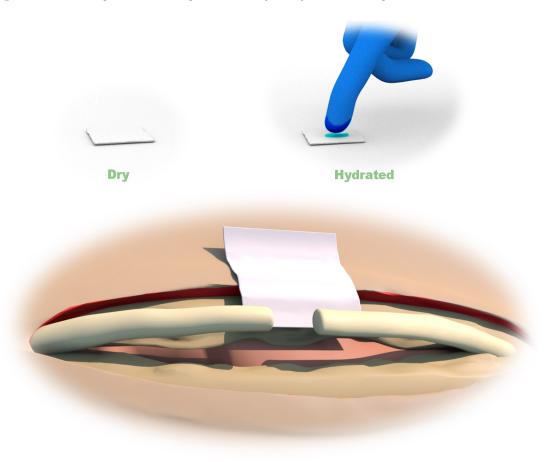


- Step 3. Prior to treatment it should be ensured that a sufficient volume of ReFeel® is available to the surgeon for complete filling of the nerve defect.
- Step 4. Inspect package for damage, open carton, and remove pouch.
- Step 5. Open outer pouch and remove inner pouch ensuring that it remains in the sterile field.
- Step 6. Open inner pouch and remove ReFeel® from the pouch.
- Step 7. Cut ReFeel® to the desired size, based on the length of nerve gap and the diameter of nerve ending on each end.
- I. Cut ReFeel® to a length to create a suitable overlap of the ReFeel® on each of the nerve ending for suturing. An overlap of >3x the nerve diameter is recommended. In the case of smaller nerves, this overlap should be maximized based on the available space at the surgical site.
- II. Cut ReFeel® to a width of approximately 6-7 times the nerve diameter to give sufficient material to wrap around the nerve and leave sufficient material to create an overlap for suturing.



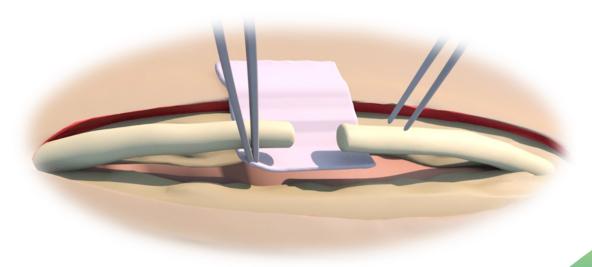
ReFeel® can be implanted in its dry state but can also be used with minimal hydration (a few drops of saline).

Warning: Do not submerge. Wet with fingers or use dry for optimal handling.

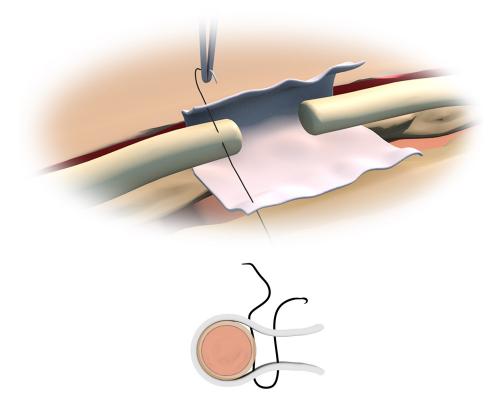


Step 8. Place a sheet of ReFeel® under the nerve defect using micro-forceps, ensuring both the proximal and the distal ends of the injured nerve are covered, once the gap has been closed as the anatomy will allow.

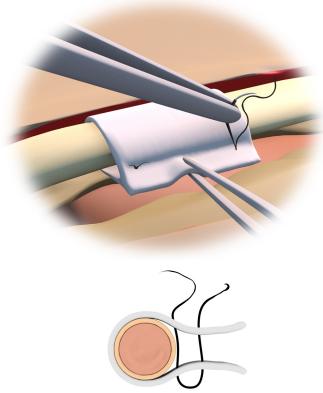
Note: ReFeel® can be implanted either side up.



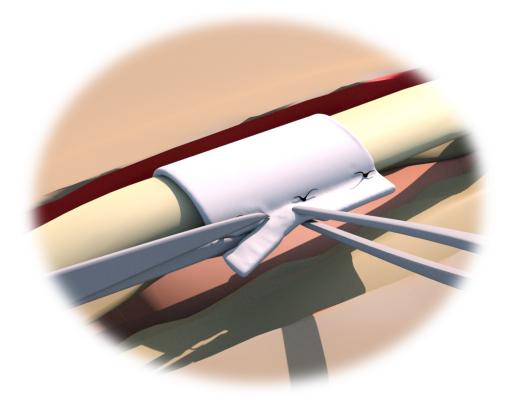
Step 9. Sutures should be used to fix ReFeel® to the Epinureum of each end of the nerve to prevent migration. When suturing, use non-absorbable monofilament suture material (a USP 4-0 to 8-0 suture is recommended).



Step 10. Fold ReFeel® to enclose the nerve defect, and then if required, suture the folded ends in the center so that they do not open.



Step 11. Trim ReFeel® as needed.



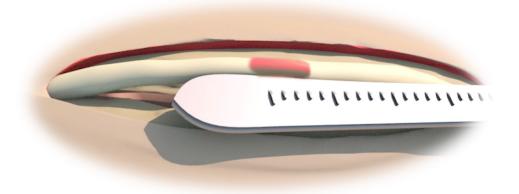
Step 12. Dispose any unused portions of the device and packaging materials in accordance with clinical standards.

Step 13. Evaluate and close the wound according to physician's standard procedure.

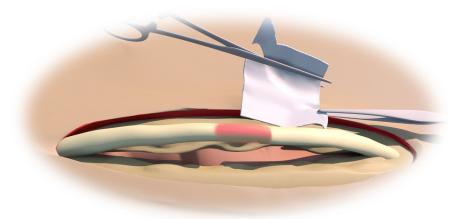
Technique 2: Repair of nerve with no substantial loss of nerve tissue

Step 1. Expose and isolate the nerve at the appropriate incision site according to physician's standard procedure.

Step 2. Determine the nerve diameter and the length of the injured nerve area in millimeters (mm) using a suitable measuring instrument.

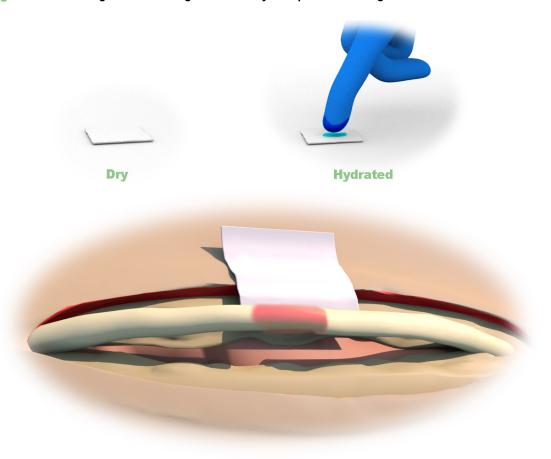


- Step 3. Prior to treatment it should be ensured that a sufficient volume of ReFeel® is available to the surgeon for complete covering of the injured nerve.
- Step 4. Inspect package for damage, open carton, and remove pouch.
- Step 5. Open outer pouch and remove inner pouch ensuring that it remains in the sterile field.
- Step 6. Open inner pouch and remove ReFeel® from the pouch.
- Step 7. Cut ReFeel® to the desired size, based on the length of injured area and the diameter of non-injured area on each side.
- I. Cut ReFeel® to a length to create a suitable overlap of the device on each side of the injured area for suturing. An overlap of >3x the nerve diameter is recommended. In the case of small nerves, this overlap should be maximized based on the available space at the surgical site.
- II. Cut ReFeel® to a width approximately 6-7 times the nerve diameter to give sufficient material to wrap around the nerve and leave sufficient material to create an overlap for suturing.



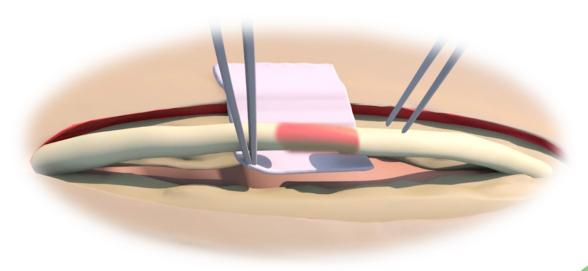
ReFeel® can be implanted in its dry state but can also be used with minimal hydration (a few drops of saline).

Warning: Do not submerge. Wet with fingers or use dry for optimal handling.

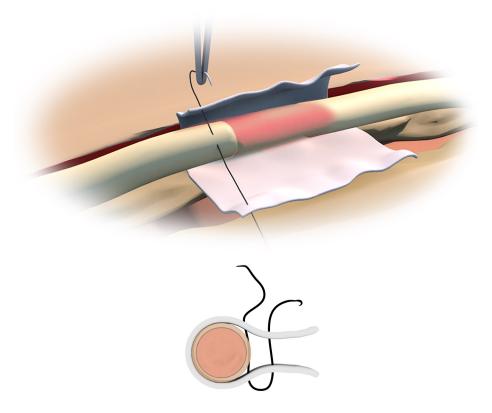


Step 8. Place a sheet of ReFeel® under the injured nerve using micro-forceps, ensuring both the non-injured areas are covered.

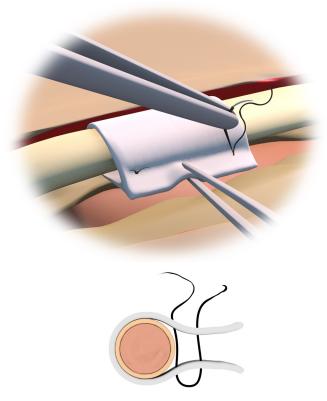
Note: ReFeel® can be implanted either side up.



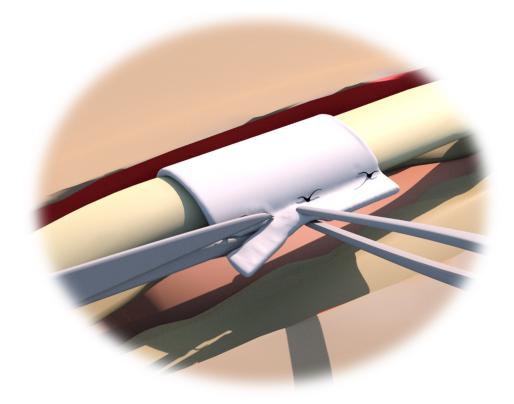
Step 9. If required, sutures should be used to fix ReFeel® to the Epinureum of the nerve to prevent migration. When suturing, use non-absorbable monofilament suture material (a USP 4-0 to 8-0 suture is recommended).



Step 10. Fold ReFeel® in the center to enclose the injured nerve, and if required, suture the folded ends in the center so that they do not open.



Step 11. Trim ReFeel® as needed.



Step 12. Dispose any unused portions of the device and packaging materials in accordance with clinical standards.

Step 13. Evaluate and close the wound according to physician's standard procedure.

Ordering Information

| SKU: | Description: | Size: |
|--------|---------------------|-------------|
| 802-01 | ReFeel [®] | 55mm x 55mm |

Warnings

Single use only. Do not re-sterilize. Do not use if packaging is damaged.

Complete postoperative wound closure is essential. ReFeel® must not be used to repair nerve defect where full coverage of the defect site cannot be achieved.

ReFeel® should not be implanted in combination with other products (other than products where the instructions for use of these products allow combination with ReFeel®).

Heavy bleeding may reduce performance of ReFeel®.

Adverse Reactions

Possible complications that can occur with any peripheral nerve surgery may include pain, swelling, infection, decrease or increase in nerve sensitivity, wound healing disorders, hypersensitivity that may be caused by Alginate and/or polyglycolic acid and complications associated with use of anaesthesia. Minor discomfort in the surgical site may occur for a few days. Transient, mild, or localized inflammation may occur as a result of standard surgical procedure.

Precautions

Use of ReFeel® is intended only for surgeons that are experienced in performing nerve repair surgery and who are familiar with the appropriate surgical techniques.

Aseptic handling techniques are required during all phases of device handling.

Do not wash the treatment area containing ReFeel® until the application of the device has been completed and the nerve is fully wrapped and sutured.

Do not use contaminated ReFeel® for surgery.

The safety and effectiveness of ReFeel® has not been evaluated in pregnant women and children.

Disposal

The used device along with any waste materials should be disposed of in accordance with local requirements.

For more information on ReFeel® or product complaints/queries contact:

Tel: 888.813.5511 E-mail: customerservice@pbcbiomed.com www.pbcbiomed.com

Manufactured for:

Mochida Pharmaceutical Co., Ltd. 1-7 Yotsuya, Shinjuku-ku Tokyo, Japan

Distributed by:

PBC Biomed Inc. 150 Peabody Place, Ste. L1007, Memphis, TN 38103, USA

Caution: Prescription use only. Federal law (USA) restricts this device to sale by or on the order of a physician. See Instructions for Use for complete indications, warnings, contraindications and adverse events.

Copyrights and Trademarks: The contents of Mochida's material are protected by worldwide copyright and trademark laws.

Any rights not expressly granted herein are reserved. Reproduction, transfer, distribution or storage of part or all of the contents in any form without the prior written permission of Mochida is prohibited.