

Remplir™ Sales Training - USA

Module 4



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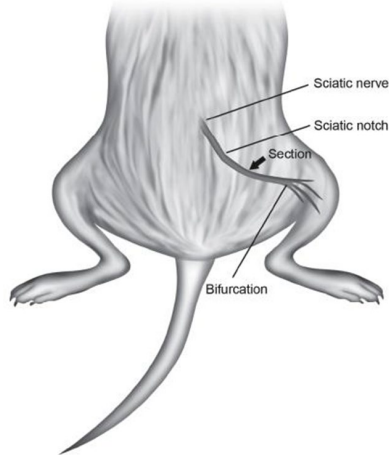
*This training includes general information on nerve repair that may not apply to Remplir.
Please refer to Remplir's IFU.*

Learning Objectives

- Understand preclinical study results and translate the key points as differentiation from competitors and value to a surgeon.
- Review the prospective clinical study and understand its importance as a differentiator.

Preclinical study design

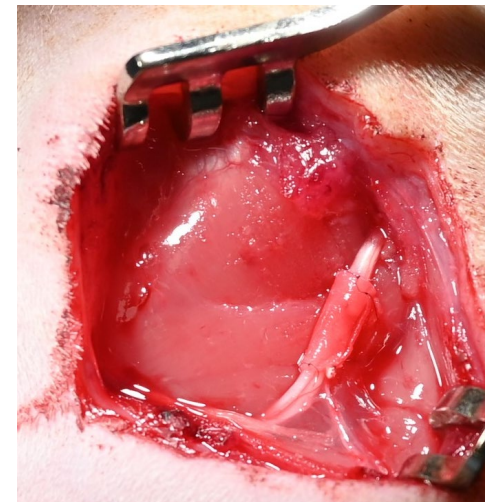
- Rat sciatic nerve model
- Transected sciatic nerves sutured & wrapped with **Remplir** or **NeuraWrap**
- Intact sciatic nerve from contralateral side used as **normal control**
- Nerves resected for pathology assessment at **4, 12, & 24 weeks** post-treatment



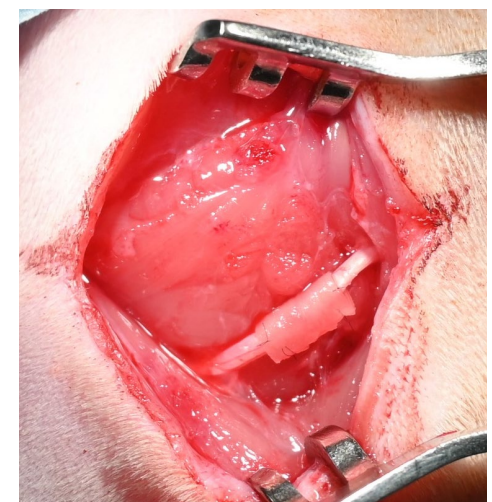
Sciatic Nerve Exposure



End-to-End Suture (Neurorrhaphy)



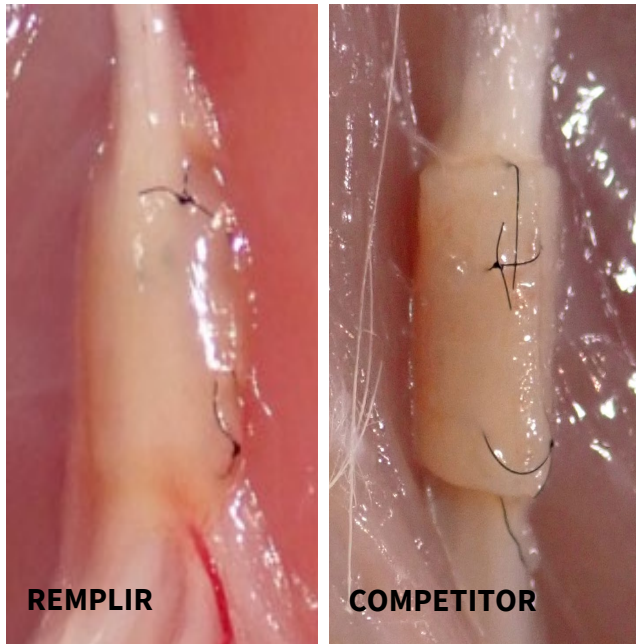
Application of Remplir



Application of NeuraWrap

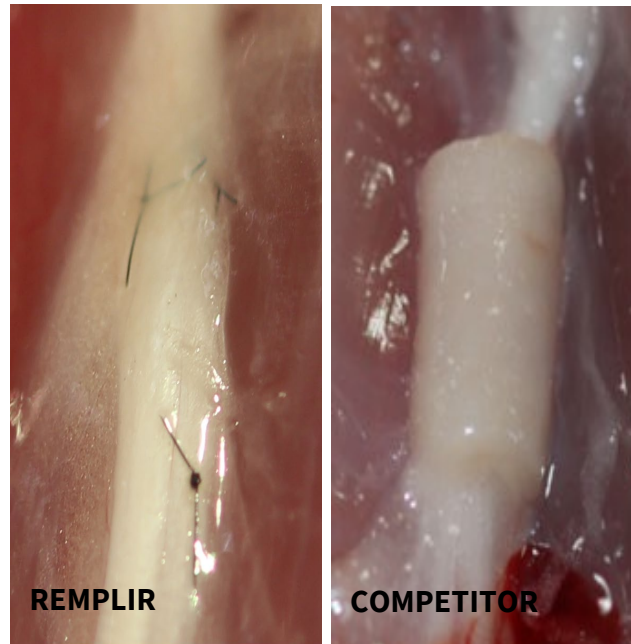
Integration and degradation profile*

4 weeks



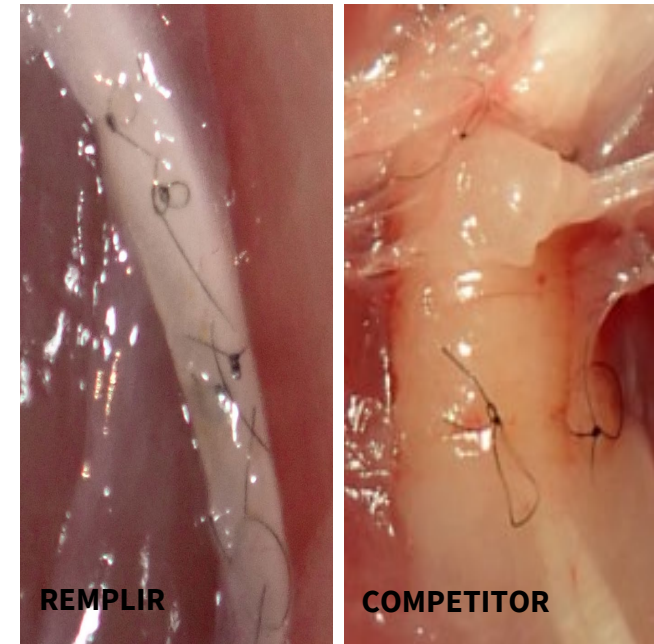
Remplir conforms to host tissue to protect transected nerve

12 weeks



Remplir largely degraded and integrated into host epineurial tissue

24 weeks

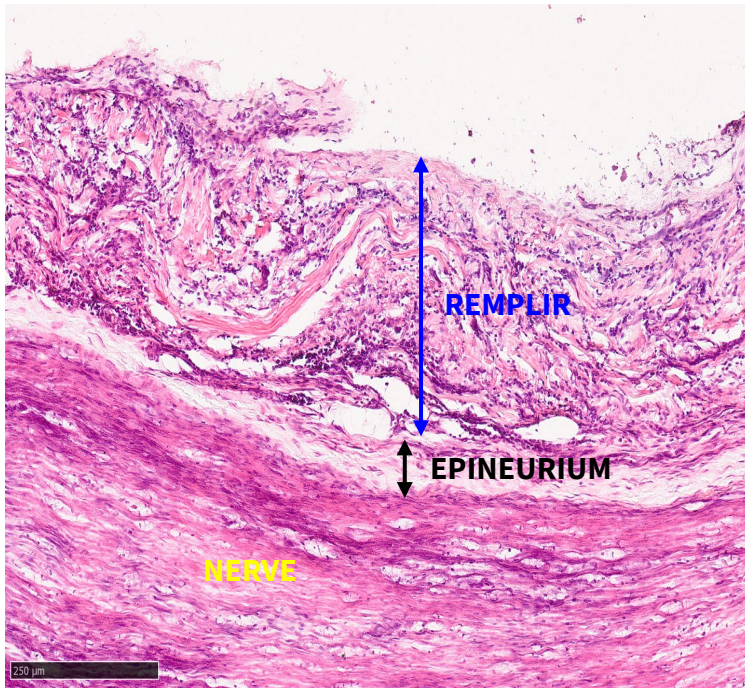


Remplir completely degraded and remodeled into host epineurial tissue

*Pre-clinical Data, Rat Sciatic Nerve

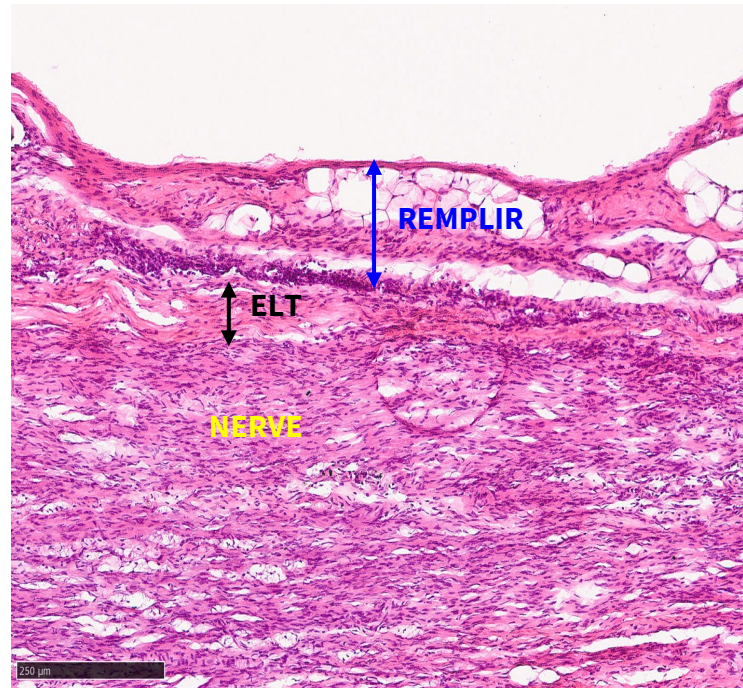
Integration and degradation profile

4 weeks



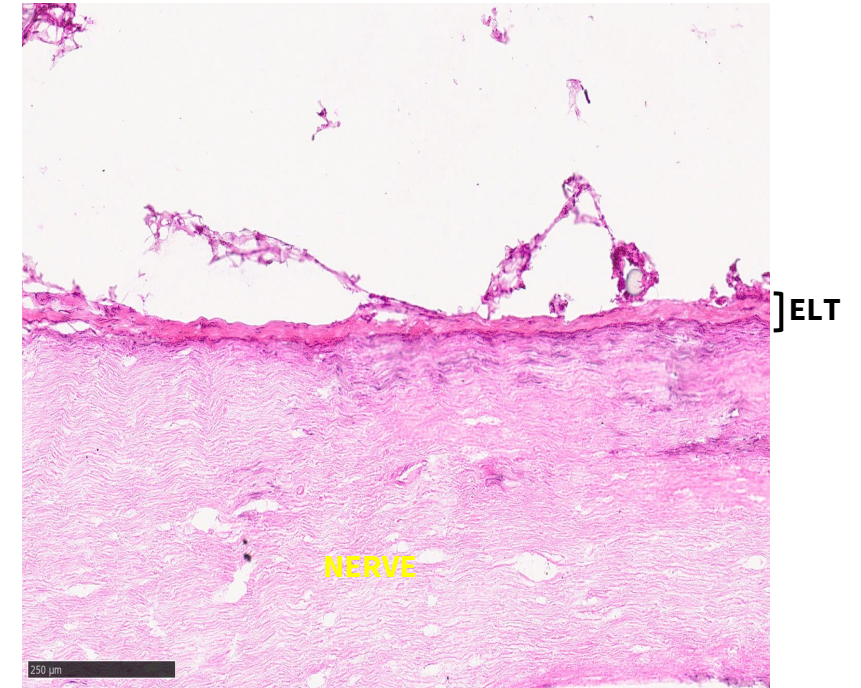
Remplir integrates with host tissue to protect transected nerve.

12 weeks



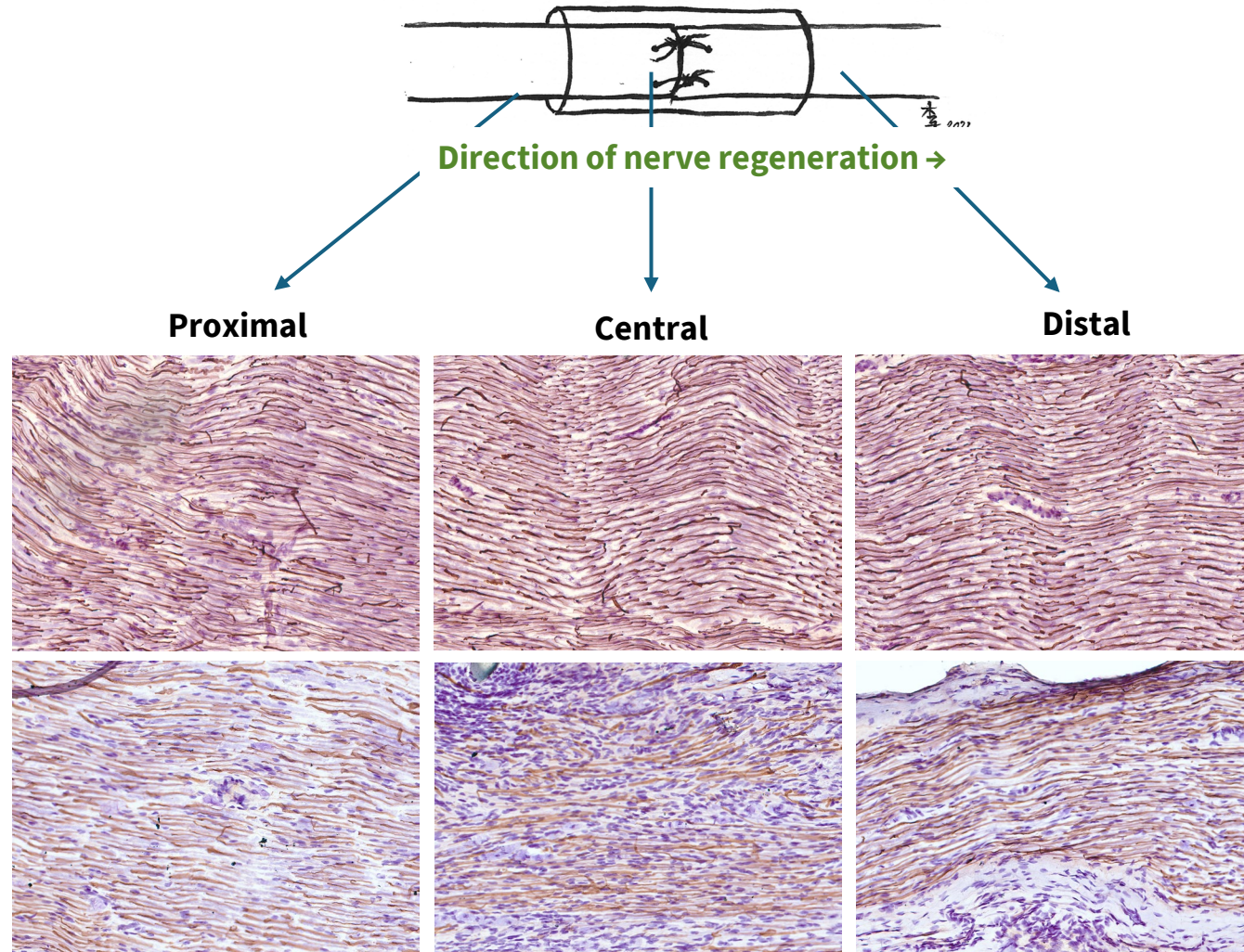
Remplir largely degraded and remodeled into epineurial-like tissue (ELT).

24 weeks



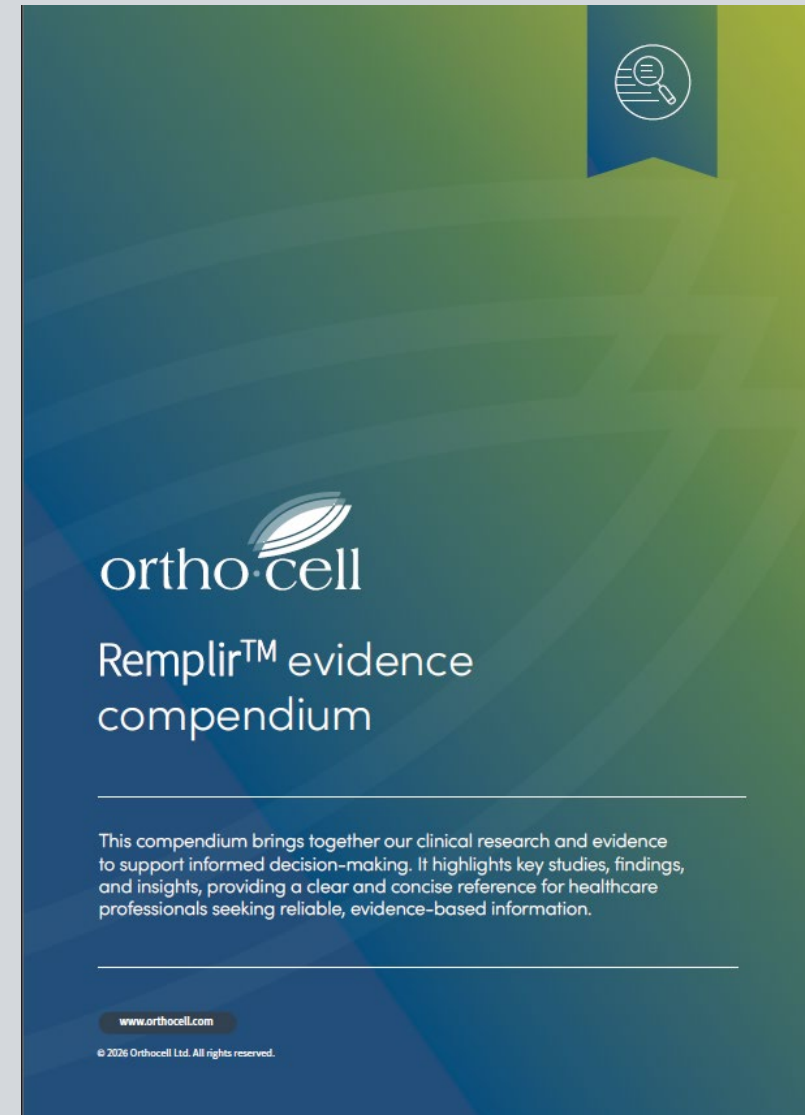
Remplir completely degraded and remodeled into host epineurial tissue

Supports nerve alignment



Supporting Evidence

Read more



Prospective clinical study*

Study details

- 19 patients received 36 nerve repairs
- Increasing severity of injury:
 - Peripheral nerve injury
 - Brachial plexus injury
 - Cervical spinal cord injury
- Increasing complexity of procedures:
 - End-to-end nerve repair
 - Grafting
 - Nerve transfer

Initial clinical observations

- No adverse reactions to Remplir
- ~ 50 % reduction in sutures (2-3 vs 4-6 per nerve)
- Easy to use
 - Simple hydration
 - Excellent handling qualities
 - Adapts and seals around coaptations with size mismatch
- Shorter operative time
- Rapid recovery of function

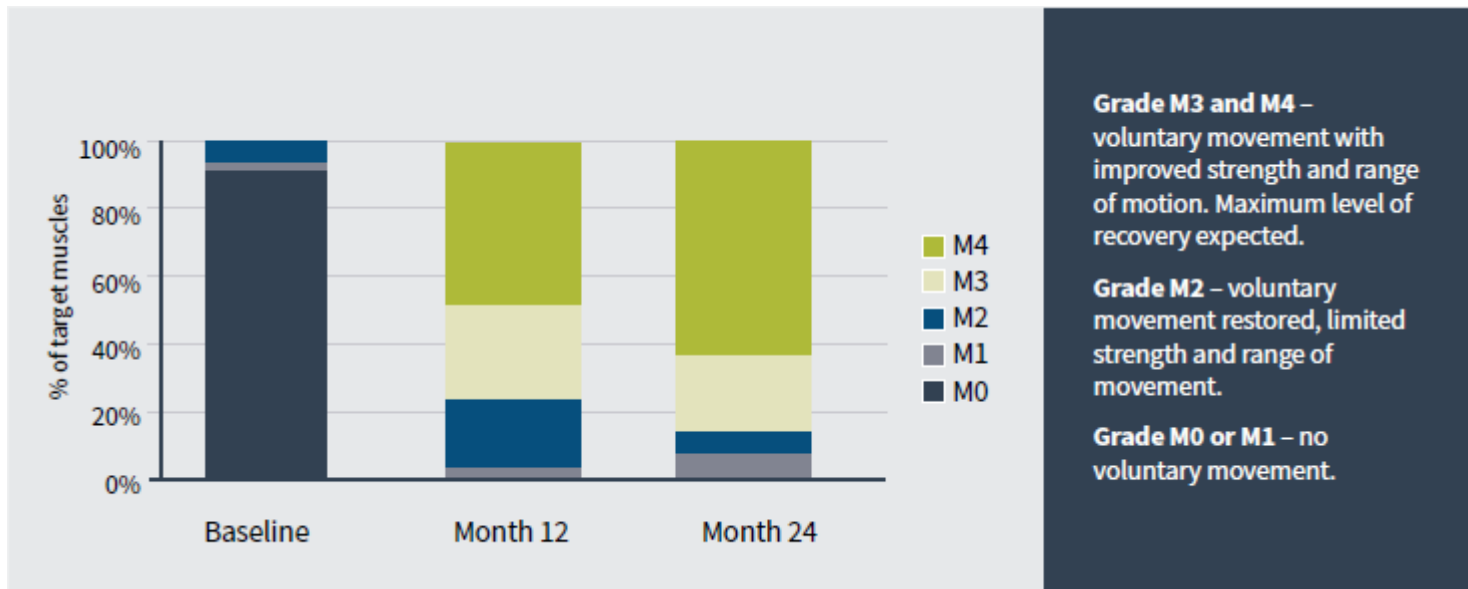
* O'Beirne, A., et al. (2024). "Reconstruction of Upper Extremity Peripheral Nerve Injuries Using an Epineurial-Like Collagen Device—A Prospective Clinical Study." Journal of Reconstructive Microsurgery Open 09(01): e78-e88.

Supporting Evidence

“We are now seeing a consistent return of arm and hand function following nerve transfer surgery with Remplir. Remplir is increasing the success rate and efficiency of nerve transfer surgery”.

- Leading Australian orthopaedic nerve specialist and clinical trial lead,
Dr Alex O’Beirne

**Patients regained voluntary muscle movement within 12 months,
increasing strength and range of motion at 24 months**



Final results

85%

(23 of 27)

of nerve repairs resulted in functional recovery of the most proximal muscle controlled by the repaired nerve

Supporting Evidence

- Peer-reviewed pre-clinical and clinical trials showing significant success rates
- Remplir is approved in major global markets such as Australia (ARTG), United States (510(k) cleared), Canada (MDL), Singapore, Thailand, Hong Kong and New Zealand



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