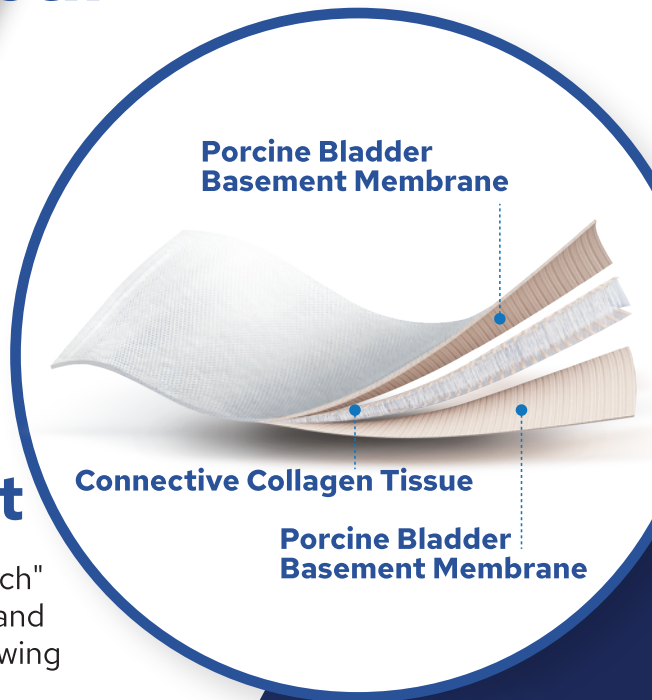


ExceMend™ Biological Dural (Spinal) Graft



A Novel Biodegradable Graft

Designed for dura mater (spinal) repair, it features a "sandwich" structure comprising porcine bladder basement membrane and connective tissue collagen. This graft facilitates precise, allowing for in-situ regeneration and complete absorption.



High safety, high stability, high biocompatibility

The composition and structure of the basement membrane remain remarkably consistent across various species, individuals, and organs. It exhibits low immunogenicity and minimal biological burden, making it exceptionally biocompatible.



In situ regeneration, synchronous absorption

Designed to mimic the natural tri-layer structure of the dura mater, enriched with bioactive factors, it promotes orderly cell growth, ensuring precise in-situ regeneration. It is fully absorbed within 4 to 6 months, effectively preventing tissue adhesion.



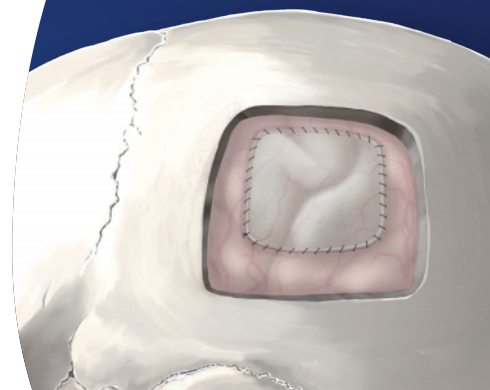
Excellent fluid barrier function

The dense structure serves as an effective watertight barrier, conforming seamlessly to the intricate anatomical structures of the brain, preventing cerebrospinal fluid leakage.



Robust flexibility

With well-balanced mechanical properties, it can be consistently sutured without tearing or needle-hole leakage, meeting the requirements for multiple fixation methods of clinical applications.



About Basement Membrane

● Rapid self-repair

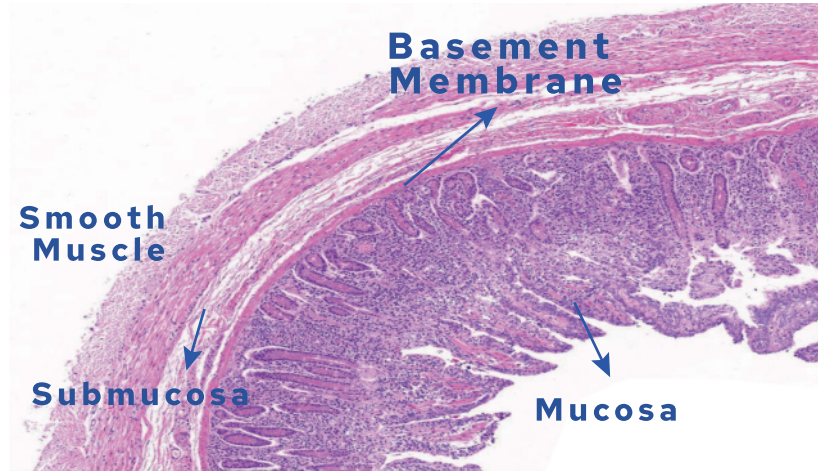
Basement membrane is an extracellular matrix structure that supports the rapid metabolism and self-repair of cells in the body.

● High homologous

Basement membrane exhibits a remarkable structural and compositional consistency across various species, individuals, and different organs.

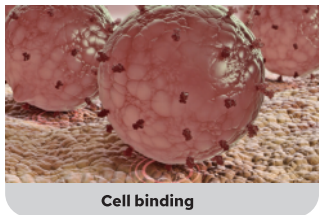
● Biological activity

Basement membrane is rich in bioactive components, which induce rapid proliferation and differentiation in the implantation site, facilitating organized tissue regeneration.

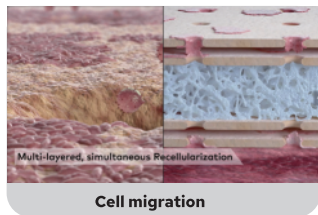


Basement Membrane Technology

● ZR MedTech's ExceBM™ Technology

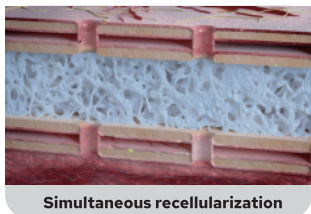


Cell binding

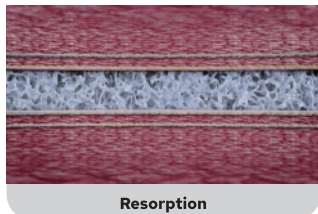


Cell migration

This innovative distinctive regenerative pattern provides an isolated microenvironment at the early stage of the regeneration.

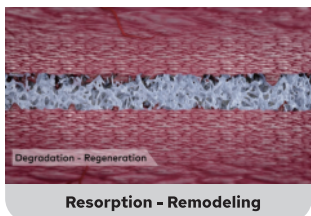


Simultaneous recellularization

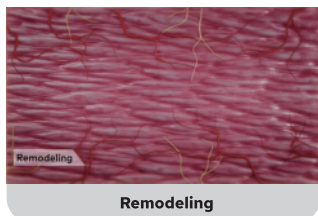


Resorption

Guided by special architecture, multilayers of new cells are quickly reconstructed before the matrix resorption.



Resorption - Remodeling



Remodeling

The entire remodeling processes can be accomplished in created steady-going environment to ensure an outstanding regenerative result.

Scope of application

- Suitable for various of duramater / dura mater repair surgery

Certification Information

- FDA 510(K)
- ISO13485
- MDSAP

Product Information

Specifications	Size
Z-ECP-DUR-2x3	2cmx3cm
Z-ECP-DUR-3x3	3cmx3cm
Z-ECP-DUR-4X6	4cmx6cm
Z-ECP-DUR-5x5	5cmx5cm
Z-ECP-DUR-5X6	5cmx6cm

Specifications	Size
Z-ECP-DUR-5x10	5cmx10cm
Z-ECP-DUR-6x8	6cmx8cm
Z-ECP-DUR-7x7	7cmx7cm
Z-ECP-DUR-7x8	7cmx8cm
Z-ECP-DUR-7X10	7cmx10cm

Specifications	Size
Z-ECP-DUR-8x10	8cmx10cm
Z-ECP-DUR-9x9	9cmx9cm
Z-ECP-DUR-9x10	9cmx10cm
Z-ECP-DUR-10x10	10cmx10cm
Z-ECP-DUR-10x12	10cmx12cm



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