

Step

Tear or cut the outer package along the notch and take out the inner package by aseptic manipulation, and then tear open the blister package and take out the ReDura.





After that, onlay or suture method can be chosen. It suggests to suture when the specification is larger than 60mm*60mm.

Suture procedure:



. Trim the ReDura into a suitable shape as needed.



(2). Place the ReDura onto the dural defect.



(3). Fix ReDura into place by routine suturing with 4-0 sutures, or the usual sutures the surgeon uses to suture the dura. During suturing, pinholes should stay on the positions 2-3mm away from the product edge to ensure a watertight closure.



3). Trim the ReDura into a suitable shape, the edges of ReDura should be beyond the defect area by 20-30mm and applied onto the dural defect.



(4). Suturing Finished.



4). Apply the ReDura to cover the dural defect, ensuring the overlap of 20-30mm- a Valsava manouvre can be performed to ensure a watertight closure. A sealant or Sutures can be applied if a CSF leak is then detected.

Onlay procedure:



1. Put the ReDura into normal warm saline.



2). Press onto ReDura to ensure it absorbs the saline, remove it once it becomes completely transparent.







Maintenance Period

upto 5 to 9 month

Reputa Regenerative Dura Made in Germany

Regenerative Dural Repair Patch

Made by a German Company with USD 70 million annual turnover, Redura has been manufactured with strict quality control, thru various tests for Clinical and medical certification institutes for its safety.

With the CE certification, product is being manufactured in Germany with * PLLA(Poly-L-Lactic Acid) as main ingredient,

Ideal for Open-Technique

Alpha Hydroxy Acid which gradually absorb within the patient's mouth, which is being used in many of the clinics worldwide.

When it is being absorbed inside patient's mouth, it gets divided into water, carbon-dioxide and glucose which does not leave any residuals. * PLLA is the ingredient approved by US FDA.



Redura, Healthy & Economical

Excellent Hydrophillicity

0% infection-free product with safe Lyoplant's ideal size. Made with porosity shape which attracts new collagen element & cells growing inside the matrix.

It is high intensity with strong tension, product is ideal for easy handling with cohesiveness, unchanging shape of the patch after the periodontal surgery.

- Rapid Repair & Regeneration
- Non swelling

- Redura **Selling Point**
- Excellent Handling
- High strength

- Can be repositioned
- CSF

Flexibility and Water Tight



Excellent Adhesiveness on curvy surface, enables to make superb positioning



100% water-proof. does not allow leakage

High Strength and No-Swelling



Strong Tension



Before Hydration Effect (0.215mm)



After Hydration, it does not swell up (0.205mm)

ZENITON www.zenitoni.com zenitoni@zenitoni.com



Renew Collagen Membrane



Biodegradable Collagen Membrane

Diaderm

GBR membrane Optimal barrier function Easy manipulation

DTG 10002 / 1.5 X 3 cm



Diaderm



Easy manipulation

Low thickness Flexible Easy manipulation

2 Stable degradation period



Stable–lasting barrier function Stable degradation resistance

3 Minimal inflammation



Histology of Diaderm M 6 weeks after implantation shows stable barrier function with minimal inflammatory reaction



Biodegradable Atelocollagen Membrane

Basic Information on Specification and Scientific Evidence



Intended Use and Overview

Dia - derm is an absorbable and implantable collagen membrane that is intended for tissue regeneration procedures in periodontal defects to enhance regeneration of the periodontal apparatus.

Dia - derm is crosslinked for the resistance to enzymatic degradation. Rapi-Gide[®] provides a stable barrier for 3~5 months and optimized physical property.

Stable Property of Dia - derm



In enzyme resistance test, Dia - derm showed significant resistance to degradation compare to other company's products.

Stable Property of Dia - derm







The result of tensile test suggested that Dia -derm has suitable tensile strength.





Dia-Derm ® provides fast hydration(30s) appropriate flexibility for handling after rehydration

Animal Test



(a) Four circular defects ($\emptyset = 8 \text{ mm}$) were created in each calvarium of 12 male white rabbits, and four groups were randomly assigned to the defects. (b) Random assignment of the defects clockwise from top left – control group, collagen membrane only(CM), bone graft with collagen membrane (B-CM) and bone graft only (BG). Specimens were harvested at 2 and 8 weeks postoperatively for histologic and histometric analysis



Histologic view of Dia-derm showing new bone (NB) integrated to the network of collagen membrane * NB(New Bone), OB(Native Bone)

Histological analysis shows newly generated vasculature and new bone integration into the bone defect site at PO 8 weeks.

* BM(Bone materials), RG(Rapi-Gide ®)

* **Ref.** Park et al. Guided bone regeneration using 1-ethyl-3-(3-dimethylaminopropyl) carbodiimide (EDC)-crosslinked type-I collagen membrane with biphasic calcium phosphate at rabbit calvarial defects. Biomaterials Research (2015) 19:15

Clinical Case



Surgical presentation of the bone defect



Lateral augmentation with bone materials



Close with healing abutment



After 4 months, increased bone formation and implant integration were confirmed



Application of Rapi-Gide®

Ref. Lee et al. Guided Bone Regeneration Using Type-I Collagen Membrane Cross-Linked by 1-ethyl-3-(3-dimethyl aminopropyl) carbodiimide in Two Implant Dehiscence Cases. Implantology 2015; 19(1): 16~25