A XENOGENIC GRAFT FOR SOFT TISSUE AUGMENTATION

Acellular dermal matrix
A xenogenic graft for soft tissue augmentation

**CHARACTERISTICS**

Obtained from derma of porcine origin, using an exclusive Tecnoss® process, Derma membranes are gradually integrated with the autologous soft tissues\(^1\). Their strong consistency and resistance allow a perfect stabilization and a prolonged protection of underlying graft in large regeneration procedures, together with a strong barrier action to guide the growth of epithelium and preventing its invagination.

**HANDLING**

Derma membrane can be shaped with scissors until the desired size is reached; then it must be hydrated for 5 minutes in sterile lukewarm physiological solution. Once it acquires the desired plasticity, it must be adapted to the grafting site. It is always recommendable to prepare a pocket with an elevator in order to stabilize the membrane in the site after stitching the flaps.

**CLINICAL INDICATIONS**

**Graft protection:** Derma membrane is a collagen resorbable barrier to protect and stabilize bone grafting materials; only in this specific indication it can be used also in open healing situations due to its perfect tissue integration characteristics.

**Soft tissue improvement:** if a residual band of keratinized tissue is still present around teeth or implants, Derma membrane can be used as an alternative to connective tissue graft to improve the quality of keratinized tissue.

**Gingival recessions:** mild gingival recessions\(^2\) can be treated with Derma to avoid patient morbidity and discomfort due to connective tissue graft harvesting. It is recommended to leave Derma membrane completely covered by the coronally advanced flap and to avoid membrane exposure. A properly shaped Derma membrane with rounded edges is also indicated for the tunnel technique.


Increasing tissue volume at second stage

Sex: Female | Age: 65

Fig. 1 At time of second stage a volume deficit is clearly visible.

Fig. 2 Following a crestal incision, the implant is exposed.

Fig. 3 A pouch is obtained on the buccal aspect and Derma is placed.

Fig. 4 Two double interrupted sutures are used to close the tissue around the healing abutment.

Fig. 5 Healing after 7 days presents uneventful.

Fig. 6 At time of final impression an increase of tissue volume is visible.

Fig. 7 Occlusal view showing that the dermal matrix is clinically fully integrated into the surrounding tissue.

Fig. 8 Final reconstruction with a screw retained prosthesis.

Membrane: OsteoBiol® Derma

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**CASE REPORT**

Horizontal and vertical augmentation with bone graft and Derma

Sex: **Female** | Age: **55**

Fig. 1 Initial CT scan
Fig. 2 Initial CT scan
Fig. 3 Pre-op x-rays
Fig. 4 Clinical situation
Fig. 5 Occlusal view
Fig. 6 Bone anatomy
Fig. 7 Implants inserted and graft with mp3
Fig. 8 OsteoBiol® Derma grafted
Fig. 9 Horizontal mattress stitch
Fig. 10 Sutured flaps
Fig. 11 Post-op x-rays
Fig. 12 Peri-implant tissues at 12 months
Fig. 13 Vestibular view
Fig. 14 Single crowns
Fig. 15 Control x-rays

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Bone substitute: **OsteoBiol® mp3**
Membrane: **OsteoBiol® Derma**
Post-extractive immediate implant in the esthetic zone with modification of the gingival biotype with Derma membrane

Sex: Female | Age: 60

Fig. 1 Initial situation. The patient has a vertical fracture on 2.2

Fig. 2 After the atraumatic extraction of the tooth, an osteotomy for the 3D positioning of the implant is made. The size of the Derma membrane is verified, in order to correct the soft tissue defects.

Fig. 3 After a proper hydration, Derma is positioned, partially inside the site, as a substitute of the connective tissue.

Fig. 4 The alveolus is filled with Putty. It is possible to observe the mucogingival correction made with Derma.

Fig. 5 Cicatrization of the emergency profile after 7 days. There are no signs of post-surgical complications.

Fig. 6 After 15 days

Fig. 7 Peri-implant stability, 6 months after the prosthodontic finalization of the case.

Bone substitute: OsteoBiol® Putty
Membrane: OsteoBiol® Derma

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Tecnoss s.r.l. is an innovative, globally active company that develops, produces and documents premium-quality xenogenic biomaterials by the brands Tecnoss® and OsteoBiol®.

Its 20 years of research led to its patent-protected production process that ensures neutralization of antigenic components in order to achieve biocompatibility, while preserving the natural collagen matrix inside the biomaterial.

Tecnoss® products comply with highest quality standards such as ISO 10993, ISO 13485 (notified body Kiwa Cermet) and 93/42/EEC (notified body CE 0373).

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