OsteoBiol® by Tecnoss

Equine Pericardium Membrane to Prevent Dorsal Irregularities in Rhinoplasty

MAXILLOFACIAL

312

T M Marianetti[1]
F Grussu[2]
D Cervelli[2]
G Gasparini[1]
S Pelo[1]

1 | Maxillofacial Surgery Department, Catholic University of Sacred Heart, Rome, Italy
2 | Plastic and Reconstructive Surgery Department, Catholic University of Sacred Heart, Rome, Italy

ABSTRACT

Nasal dorsum irregularities are one of the most common complications affecting the clinical and aesthetic outcome of rhinoplasty. As many materials have been used for camouflage - including autologous, homologous, and alloplastic materials - but none of these seem to represent the ideal solution, the Authors choose to use an equine pericardium membrane (OsteoBiol® *Evolution* X-Fine, Tecnoss®, Giaveno, Italy), in 33 post rhinoplasty patients. In 12 patients, the membrane was used to conceal dorsal irregularities from a previous surgical procedure. In 21 patients who presented a thinned dorsal skin, the membrane was applied on the dorsum to prevent irregularities during a primary rhinoplasty. The membrane was trimmed to the correct size, placed on the nasal dorsum, and rehydrated with saline solution. Postoperative controls were performed after 2 weeks, 3, 6, 12, and 18 months. A clinical evaluation (inspection and finger palpation) and photographic documentation were carried out, showing satisfying results. As stated by the Authors, *Evolution* X-Fine features a smooth side and a micro rough side, which make the membrane very adaptable both to bone and soft tissue. In particular, the microrough side allows it to be safely placed over the nasal bone. Moreover, it is completely absorbable, but it can leave a newly formed connective layer of the same thickness as the membrane. The membrane promotes a local fibrous reaction, which leaves a uniform connective layer.

CONCLUSIONS

In their conclusion, the Authors underlined that *"equine pericardium membrane can be considered an alternative, effective material for concealing irregularities and creating a nasal dorsum smoother surface. We think it could be very useful in selected situations, especially in patients with thinned skin or in case of revision rhinoplasties"*.

ORIGINAL ARTICLE
Ann Plast Surg
2014 Aug;73(2):128-30

Grafted with

MEMBRANE
OsteoBiol® *Evolution*

MAX