

Xenomatrix[®] for a faster regeneration of soft tissues

A special three-dimensional matrix

Xenomatrix® is a special three-dimensional collagen matrix obtained from equine Achilles tendon through an advanced biochemical process. A matrix completely biocompatible that acts as an ideal scaffold for the growth of connective tissue cells. **Xenomatrix**®, while protecting the underlying graft from the connective invasion, creates a substrate that is soon colonized by soft tissue, accelerating healing.

Low healing times decrease the patient's discomfort and the possibility of post-operative infections that put the overall success of the intervention at risk. Optimal soft tissues healing for best aesthetic results.



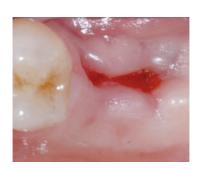
SEM observation (Scanning Electron Microscope) allows to highlight the dense network of collagen fibers which characterizes the **Xenomatrix®** three-dimensional matrix.

University of Padua, CUGAS Service Center

Superior surgical treatments

Kenomatrix® is indicated in all those conditions where to easing the regeneration of soft tissue is synonymous with success. A first application consists in the treatment of the post-extractive socket.

Soft tissue healing is histologically identical to that observed when the flap is left to heal by secondary intention, but it occurs on average faster. **Xenomatrix**® also acts as a barrier protecting the bone graft by creating the best conditions for bone regeneration and, therefore, for an effective socket preservation.





Bilateral case. Comparison between healing by secondary intention (top) and healing with BCG-XC10 (bottom) after 21 days. Within the same timeframe, healing with **Kenomatrix®** is at a much more advanced stage. Courtesy of Dr. Alessando Leonida - Milan



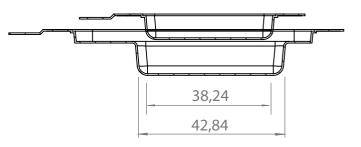


Aftert 4 months from the operation we can appreciate how the application of the three-dimensional matrix BCG-XC50 has allowed a full coverage of the gingival recession. Courtesy of Dr. Giacomo Tarquini - Rome

A second application is the treatment of **gingival recessions**, where **Xenomatrix**® allows the creation of a substrate conducive to the re-growth of soft tissues: thus avoiding the graft of connective tissue from the palate, decreasing the surgical risk and side effects for the patient, achieving an excellent aesthetic result.

Maximum safety combined with maximum ease of use

All versions of **Xenomatrix**® are supplied in a **double sterile blister** that allows a completely aseptic manipulation of the matrix when introduced into the operating field: **the maximum safety combined with maximum ease of use**.



application technique



Xenomatrix® - BCG-XC10



Xenomatrix® comes in two patches, A and B



Post-extractive socket

Elevate the flap around the





Post-extractive socket Flap elevation with papilla preservation

surgical application



Bone graft and patch A are put in place

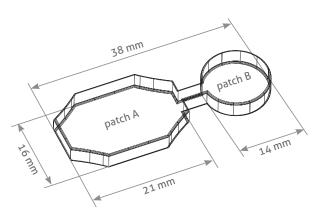


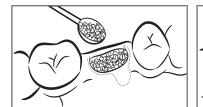
Cross-stich - The matrix is exposed



Xenomatrix[®] Collagenic Matrix

BCG-XC10 Collagen Xenomatrix® 38x16x4/ø14x4mm





Insert the granules of patch A under the flap

b) Place patch B on top of the covering the patch B



a) Pack one of the short sides Pack the other sides of the patch A under the flap,



Stabilize with one or two cross stitches



Healing after 7 days



Healing after 3 months



Final prosthetic abutment



Final crown

Surgical technique applied and developed by Dr. Alessandro Leonida, DDS, PhD.



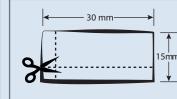
Xenomatrix® - BCG-XC50



Gingival recessions - Class I and II according to Miller



Identify the maximum level of radicular coverage



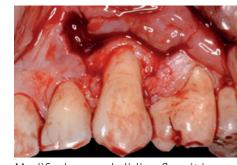
If necessary, cut out the matrix based on the number of the dental elements involved and to the extent of defect to be corrected

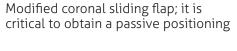


Gingival recession - Class I and II according to Miller



The exposed root portion is carefully polished with the utmost care to avoid damaging nearby marginal







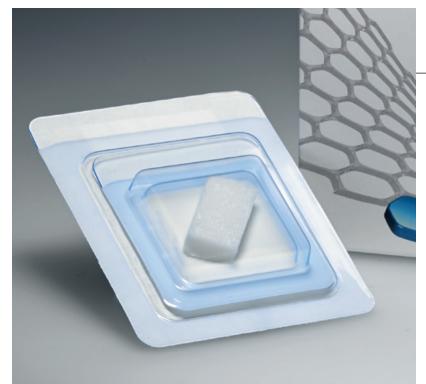
Positioning of the BCG-XC50 threedimensional matrix at the level of the cementoenamel junction (CEJ). Suturing to the receiving bed by means of absorbable stitches



Suture of the flap with detached and sling stitches; It is essential to perform a tension-free suture



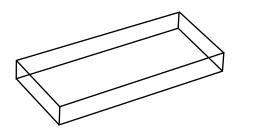
coverage and an increase in thickness of the keratinized tissue is observed



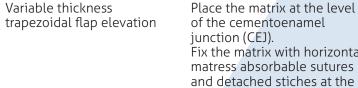
solutions

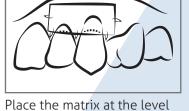
Xenomatrix® Collagenic Matrix

BCG-XC50 Collagen Xenomatrix® 1 pc 15 x 30 x 4 mm



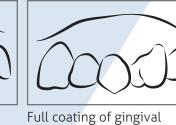






base of anatomic papillae

Position the flap coronally about 1 mm from the CEJ and fix it with sling suture Fix the matrix with horizontal and detached stitches



recessions



Healing at 4 months. A complete root

BIOTECK°



BIOTECK®. INNOVATE BIOMATERIALS.

Bioteck® is an Italian company that has been producing bone substitutes and protective membranes successfully used in orthopaedics, neurosurgery and oro-maxillo facial surgery since 1995.

Scientific research and innovation are the guiding principles that have enabled Bioteck® to patent new production processes and to create unique biomaterials of high quality in terms of performance level and safety quarantees. Materials now used in 72 countries worldwide.

At its multi-functional centre for research and development and thanks to state-of-the-art production processes, every day Bioteck® works to pursue its key objective: to innovate biomaterials.

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BIOTECK ACADEMY. SCIENTIFIC COMMUNITY FOR THE CULTURE OF THE CONSCIOUS CHOICE.

Bioteck Academy is the innovative and unique scientific community which promotes the circulation and sharing of knowledge in the field of tissue regeneration applied to dentistry, maxillo-facial surgery, orthopaedics and neurosurgery.

Established as a hub for the clinical and scientific expertise focussed on by Bioteck® spanning twenty years of research, today it is an entity open to all professionals who decide to join and share their own surgical experience.

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