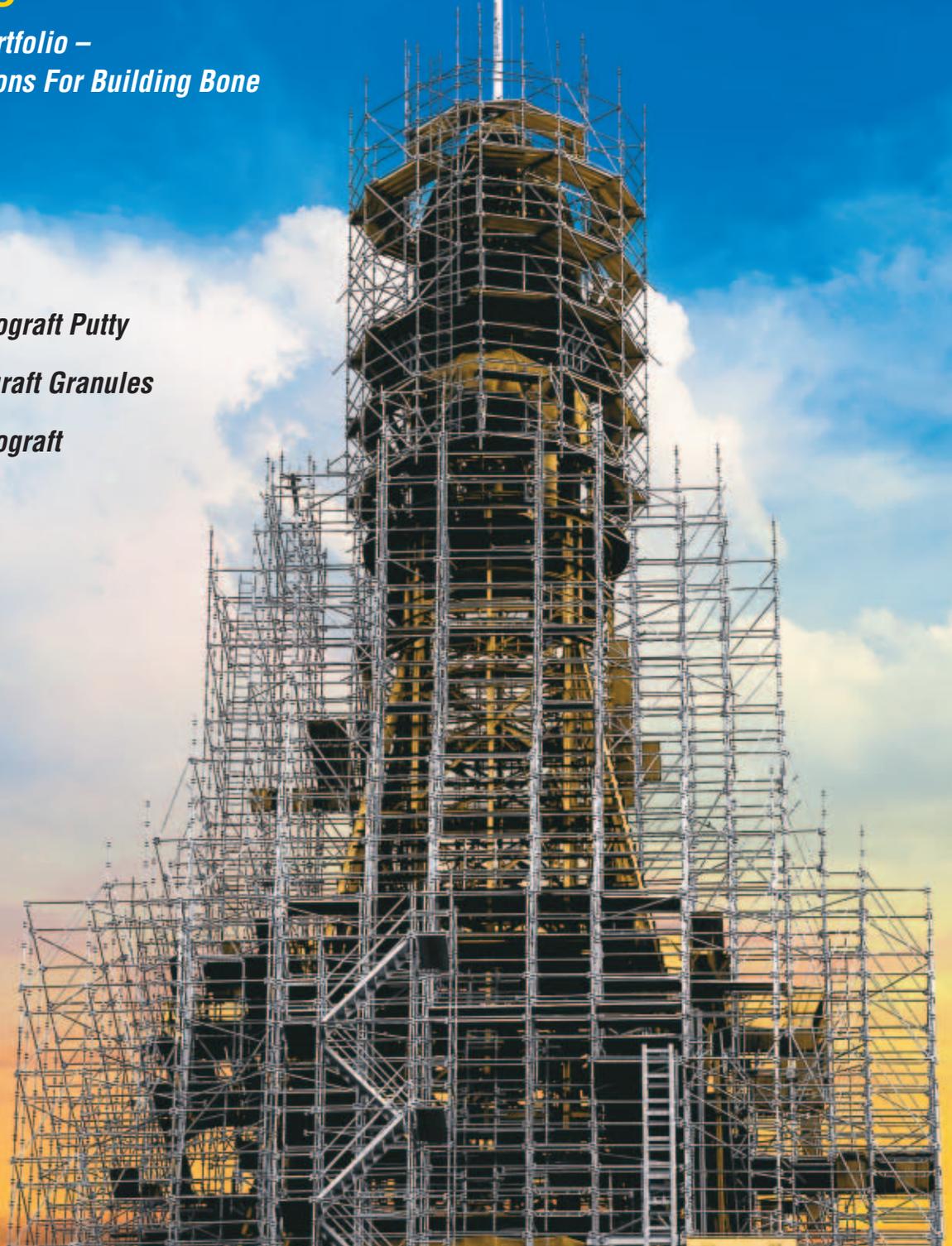


Establishing The Scaffold For Bone Regeneration

***RegenerOss™ Portfolio –
A Variety Of Options For Building Bone***

- ***RegenerOss Allograft Putty***
- ***Endobon® Xenograft Granules***
- ***RegenerOss Allograft***



A Framework For Regenerative Success

Three new materials from BIOMET **3i** provide a scaffold for building bone to transform a variety of challenging site defects into optimal outcomes. BIOMET **3i**'s new RegenerOss™ Portfolio for Guided Bone Regeneration (GBR) procedures includes:

RegenerOss Allograft Putty: A Demineralized Bone Matrix (DBM) in a lecithin carrier that offers both verified osseointegrative and osseoconductive for the promotion of bone growth. RegenerOss Allograft Putty makes grafting easier with its non-toxic carrier that provides excellent graft containment.

Endobon® Xenograft Granules: The osseoconductive bovine-derived hydroxyapatite grafting material with more than 10 years of use in clinical applications such as oral maxillofacial and orthopedic procedures. Now indicated for use in a variety of dental and/or oral surgical procedures, Endobon Xenograft Granules enable bone to grow on the ceramic surface and through the entire graft.

RegenerOss Allograft: Aseptically processed human tissue from the University of Miami Tissue Bank (UMTB) that provides a safe alternative to autogenous or synthetic grafting materials. With BIOMET **3i** as the exclusive distributor to dental customers, clinicians receive tissue that meets rigorous safety requirements and has undergone stringent screening. Clinicians may choose from a wide range of configurations that are potentially osseointegrative and/or osseoconductive.



Building Your Scaffold RegenerOss™ Allograft Putty*

Moldable into any shape for optimal fit in a site defect, RegenerOss Allograft Putty provides verified osseoinductive potential on a lot-to-lot basis for promoting bone growth. The plant-based lecithin carrier resists movement under irrigation and provides graft containment for ease of use in delivery. The carrier is gamma sterilized and the finished product has a shelf life of two years. The DBM is processed and provided by LifeLink Tissue Bank. When used with the BIOMET **3i** OsseoGuard™ Membrane, clinicians can nurture defect sites for optimal results.



RegenerOss Allograft Putty is:

- ***Demineralized Bone Matrix (DBM) Content Of 40% By Weight Containing Collagen, Bone Morphogenic Proteins (BMPs) And Human Growth Factors, Which Enable Bone Growth On The Surface Particles***
- ***Indicated For Use In Small Defects Such As Periimplant Defects, Localized Ridge Augmentation, Extraction Sockets And As A Graft Extender***
- ***Packaged In A Convenient Syringe For Easy Delivery To The Defect Site***

*Marketed by BIOMET **3i**

*Manufactured by Interpore Cross International

Clinical Treatment By: Dr. Harold Baumgarten, Philadelphia, PA



Figure 1: Pre-operative periapical radiograph demonstrating advanced caries and bone loss on maxillary left bicuspid.



Figure 2: RegenerOss Allograft Putty placed to completely fill the extraction sites.



Figure 3: An OsseoGuard Resorbable Collagen Membrane was trimmed and hydrated—then placed over the graft.



Figure 4: The soft tissue flaps were secured with interrupted sutures without primary closure over the sockets.



Figure 5: Healing at five months post extraction and grafting—two NanoTite™ Certain® Implants/Temporary Healing Abutments were placed. (Not pictured)



Figure 6: Post-operative periapical radiograph two months post implant placement.

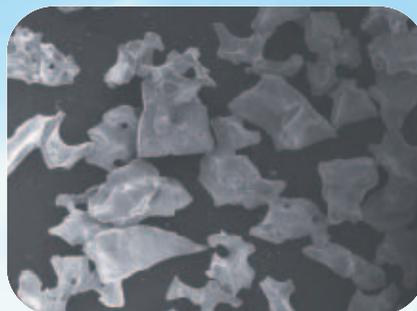
Providing Structure For A Firm Foundation **Endobon® Xenograft Granules*** **A RegenerOss™ Product**

Endobon Xenograft Granules are hydroxyapatite ceramic derived from cancellous bovine bone and are fully deproteinated by a two-step high temperature manufacturing process for safety from bacteria, viruses and prions. The osseoconductive properties enable bone to grow directly on its ceramic surface and through the entire graft. Endobon Xenograft Granules have:

- **Excellent Handling Characteristics For Easy Transfer To The Defect Site**
- **Interconnecting Micro And Macro Pores For Bony Integration, Which Leads To Graft Stability And Vascular Ingrowth**

Endobon Xenograft Granules are indicated for dental and/or oral surgical procedures such as:

- **Aesthetic Contouring Defects**
- **Periimplant Defects**
- **Ridge Augmentation**
- **Any Procedure Where The Granules Are Used As A Graft Extender**



Endobon Xenograft Granules At 20x

Non-toxic and biocompatible, Endobon Xenograft Granules are packaged in a double foil blister pack that also serves as a sterile container for hydration of the graft material. The blister packs are placed into a box with the package insert. Endobon is sterilized by Gamma Irradiation and has a shelf-life of 18 months.



*Distributed by BIOMET 3i

*Responsible Manufacturer: BIOMET Orthopaedics Switzerland GmbH

A Base Of Support

Endobon® Xenograft Granules have been used clinically for more than 10 years and numerous human clinical studies have been conducted with this product. The four articles below are a sampling of the extensive literature available on Endobon Xenograft Granules.

- (1) Baer W, Schaller P, Carl HD. Spongy Hydroxyapatite in Hand Surgery – A Five Year Follow-Up. *J Hand Surg (Br)* 2002; 27B: 101-3
- (2) Kehr P, Gosset F. Endobon as a Bone Substitute in Spine Surgery. Preliminary Study in 11 Patients. *Eur J Orthop Surg Traumatol* 2000; 10: 217-21
- (3) Tadic D, Epple M. (2004). A thorough physicochemical characterization of 14 calcium phosphate-based bone substitution materials in comparison to natural bone. *Biomaterials*, Vol. 25, 987 – 994
- (4) Hing KA, Best SM, Tanner KE, Bonfield W, Revell PA. Biomechanical Assessment of Bone Ingrowth in Porous Hydroxyapatite. *Journal of Materials Science: Materials in Medicine* 1997; 8:731-6



John Lupovici, DDS,
New York City,
New York

“Based on my clinical experience, I have found Endobon Xenograft Granules to yield the same results as other available xenografts, with ease of use chairside.”

Clinical Treatment By: Dr. José Luis Calvo Guirado, Spain



Figure 1: Pre-operative periapical radiograph revealed a non-restorable maxillary right second bicuspid.



Figure 2: Failed endodontically treated tooth was carefully extracted using periostomes and the socket walls were debrided.



Figure 3: Endobon Xenograft Granules were placed into the extraction site prior to immediate implant placement.



Figure 4: Immediate implant placement into grafted socket with a NanoTite™ PREVAIL® Implant.



Figure 5: Periapical radiograph taken at time of implant placement and immediate provisionalization.



Figure 6: Definitive restoration in place six months post extraction, grafting, implant placement and immediate provisionalization.

Establishing The Groundwork For GBR **RegenerOss™ Allograft***

Construct the new shape of site development with RegenerOss Allograft, the allograft of choice for bone regeneration. Derived from a single source for increased protection against cross-contamination and tainted tissue, RegenerOss Allograft Bone is:

- ***Aseptically Processed Tissue For Maximum Regenerative Properties And Safety Without Destruction Of The Tissue***
- ***Freeze-Dried For An Extended Shelf-Life Of Five Years***
- ***Available In A Broad Range Of Particulate Graft Options For Regenerating A Variety Of Challenging Sites***



RegenerOss Allograft can alleviate the need for a second operative site when faced with inadequate autogenous bone in size, shape or volume, thus preventing increased post-operative pain and donor site morbidity. Studies have shown that allograft bone can produce osseogenesis by activating mesenchymal cells to form bone.

RegenerOss Allograft can be utilized in a variety of dental applications, either by itself or as a graft extender. The following are common sites for allograft tissue use:

- ***Sinus Floor Elevation***
- ***Periimplant Defects***
- ***Ridge Augmentation And Reconstruction***
- ***Extraction Sockets***
- ***Other Osseous Defects Such As Apicoectomies And Tumor Resection***

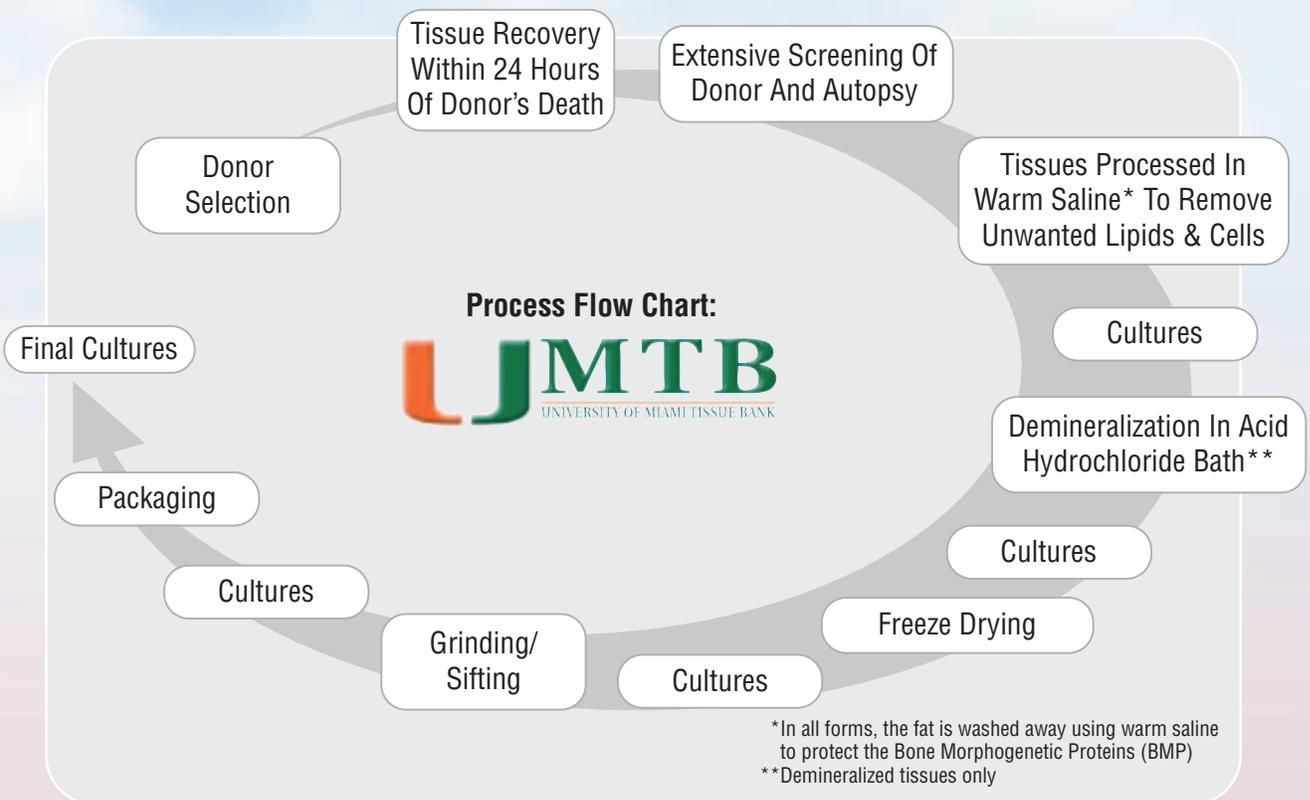
*Tissue Manufactured and Provided by The University of Miami Tissue Bank

Safety You Can Build On

The University of Miami Tissue Bank (UMTB) is a comprehensive tissue bank, which conducts donor screening, recovery, autopsies, processing and packaging for all donors. UMTB is the first civilian tissue bank in the U.S. and a university owned and operated tissue bank accredited by the American Association of Tissue Banks. All tissue may be screened by as many as 200 culture tests throughout processing to prevent the release of tainted tissue.

Steps For Ultimate Safety:

- **Cultures After Every Process**
- **Single-Source Tissue For Increased Protection Against Cross Contamination And Tainted Tissue**
- **All Tissues Undergo At Least 30 Separate Quality Checks Prior To Release**
- **All Tissues Are Processed In Class 100 (Certified) Clean Rooms**
- **All Test Reports Are Reviewed By A Medical Director For Approval Before Tissue Is Released**



RegenerOss™ Portfolio Ordering Information

RegenerOss Allograft Putty		
Catalog #	Description	Volume
ROAP05	Demineralized Bone Matrix in a lecithin carrier	0.5cc
ROAP10	Demineralized Bone Matrix in a lecithin carrier	1.0cc
ROAP20	Demineralized Bone Matrix in a lecithin carrier	2.0cc

Endobon® Xenograft Granules		
Catalog #	Volume	Particle Size
ROX05	0.5ml	500-1000µm
ROX10	1.0ml	500-1000µm
ROX20	2.0ml	500-1000µm

RegenerOss Allograft			
Catalog #	Description		Weight
0338	Demineralized Cortical	200-300µm	1/2g
1453	Demineralized Cortical	300-500µm	1/2g
0394	Demineralized Cortical	500-800µm	1/2g
1451	Demineralized Cancellous	200-300µm	1/2g
1452	Demineralized Cancellous	300-500µm	1/2g
0400	Demineralized Cancellous	500-800µm	1/2g
0605	Crushed Cortical	200-300µm	1/2g
1450	Crushed Cortical	300-500µm	1/2g
0393	Crushed Cortical	500-800µm	1/2g
0344	Crushed Cancellous	200-300µm	1/2g
1449	Crushed Cancellous	300-500µm	1/2g
0411	Crushed Cancellous	500-800µm	1/2g



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