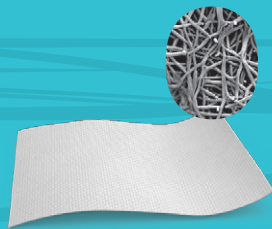
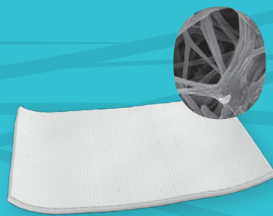


OSSIX[®] by DentsplySirona

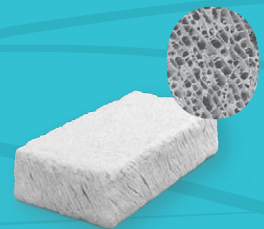
Healthy Practices. Healthy Smiles



OSSIX[®] Plus

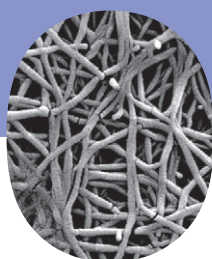
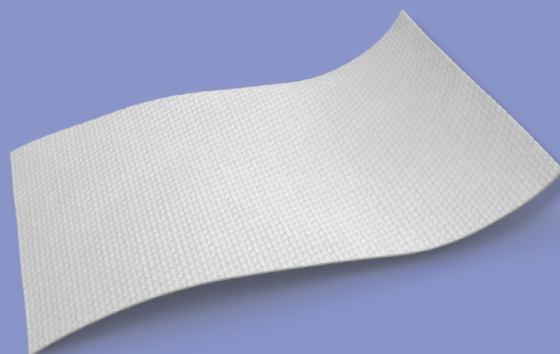


OSSIX[®] Volumax



OSSIX[™] Bone





OSSIX[®] Plus

Ossifying Collagen Barrier Membrane

For Guided Bone Regeneration (GBR) & Guided Tissue Regeneration (GTR) Procedures

Powered by Clinically Proven GLYMATRIX[®] Technology

OSSIX® Plus - Ossifying Collagen Barrier

Powered by GLYMATRIX® Technology

GLYMATRIX is a proprietary collagen cross-linking technology, similar to the naturally occurring glycation process in the human body. The clinically proven technology uses sugars to cross-link collagen molecules producing a collagen matrix, which is bioprogrammable and can be tailored to deliver products of varying physical properties and customized longevity.



OSSIX Plus Features & Benefits

OSSIX Plus is a resilient resorbable collagen barrier membrane:

- Maintains barrier functionality for 4-6 months
- Resistant to degradation when exposed for 3-5 weeks
- Excellent handling properties, adapts and conforms to defects, and adheres well to tissue
- Porcine derived, provides excellent biocompatibility



Look for this signature herringbone pattern on both sides of the device

OSSIX Plus is Intended for Use During GBR & GTR Procedures

- Ridge augmentation for later implant insertions
- Simultaneous ridge augmentation and implant insertions
- Ridge augmentation around implants inserted in delayed extraction sites
- Ridge augmentation around implants inserted in immediate extraction sites
- Alveolar ridge preservation consequent to tooth (teeth) extraction(s)
- Over the window in lateral window sinus elevation procedure
- In implants with vertical bone loss due to infection, only in cases where satisfactory debridement and implant surface disinfection can be achieved
- In intra bony defects around teeth
- For treatment of recession defects, together with coronally positioned flap
- In furcation defects in multi-rooted teeth

Please read IFU before use and for additional info on indications, contraindications, warnings and precautions.

OSSIX Plus Ossifying Barrier Membrane Long-Term Results: 13 Year Post-op



Lateral Ridge Augmentation

L-R: Pre-op, procedure, and 13 years post-op

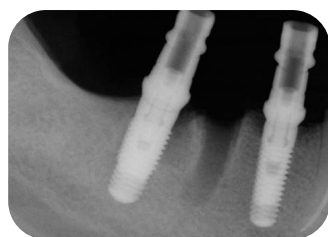
Courtesy of Bach Le, DDS, MD, FICD, FACD

Membrane for GBR & GTR Procedures

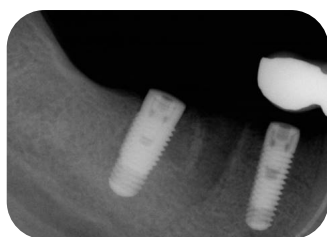
Barrier Function with True Ossification

Ossification is defined as the formation of bone, the state of being changed into a bony substance. OSSIX Plus is the only barrier membrane that ossifies.

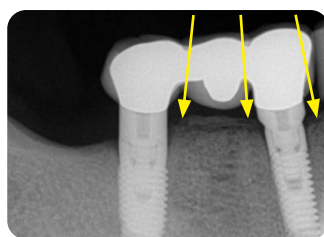
Long-Term Effect on Bone Formation



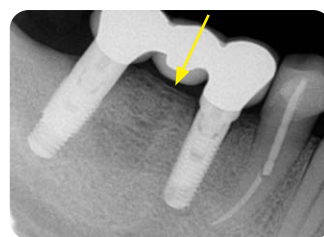
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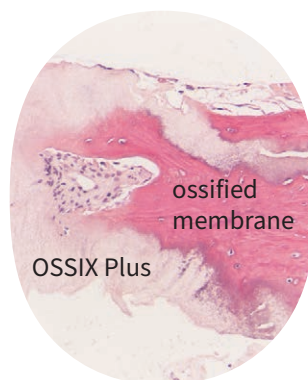
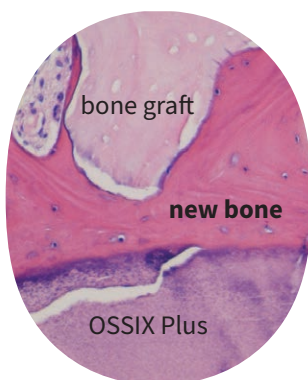
12/2015



8/2016

Long-term follow-up of OSSIX Plus barrier membrane ossification up to 5 years post-op.

Human Histology 4-6 Months Post-op



Human histology at 4-6 months post-op shows bone promotion and ossification of OSSIX Plus barrier membrane

OSSIX Plus the Only Ossifying Barrier Membrane — Supporting Publications

To the best of our knowledge, these are the first reports of complete ossification of a collagen barrier membrane in GBR procedures.

- Zubery et al. (2007). Ossification of a novel cross-linked porcine collagen barrier in guided bone regeneration in dogs. J Periodontol 78:112- 121.
- Zubery et al. (2008). Ossification of a collagen membrane cross-linked by sugar: a human case series. J Periodontol. 79:101-1107.
- Tal H, Kozlovsky A, Artzi Z, Nemcovsky CE, Moses O. (2008) Long-term bio-degradation of cross-linked and non-cross-linked collagen barriers in human guided bone regeneration. Clin Oral Implants Res. 19(3):295-30.
- Capri G, Smukler H, Landi L. (2012) A less invasive approach to mandibular horizontal ridge augmentation using autogenous bone: A human histological case series. The Journal of Implants and Advanced Clinical Dentistry 4:27-36.
- Artzi Z, Weinreb M, Carmeli G, Lev-Dor R, Dard M, Nemcovsky CE. (2008) Histomorphometric assessment of bone formation in sinus augmentation utilizing a combination of autogenous and hydroxyapatite/biphasic tricalcium phosphate graft materials: at 6 and 9 months in humans. Clin. Oral Impl. Res. 19; 686-692.

OSSIX® Plus

Ossifying Collagen Barrier Membrane

For Guided Bone Regeneration (GBR) & Guided Tissue Regeneration (GTR) Procedures

Ordering Information

OSSIX Plus is currently available in countries on all continents including the USA, Europe, Argentina, Canada, Chile, Colombia, Dominican Republic, Hong Kong, India, Israel, Korea, Mexico, Russia, Singapore, Thailand and Taiwan.

OSSIX Plus is available in 3 sizes:

Description & Size	Reference No.	Catalog No.
OSSIX Plus 15x25 mm	OXp1525	700064
OSSIX Plus 25x30 mm	OXp2530	700200
OSSIX Plus 30x40 mm	OXp3040	700201

Datum Dental at a Glance

Datum Dental Ltd., affiliated with Datum Biotech, provides innovative dental regeneration products, aiming to support and enhance the future of implantology and oral care. Its patented GLYMATRIX core technology, a sugar cross-linking collagen biomaterial, is clinically proven in over 100 scientific publications with extensive clinical experience spanning two decades. Powered by GLYMATRIX, the OSSIX product family has enabled clinicians in hundreds of thousands of procedures worldwide to safely provide predictable, long-term results to their patients. Datum Dental continues to develop new products for GBR and GTR that simplify procedures and overcome major deficiencies in existing biomaterials through safe and transformational solutions.

Global Partners

OSSIX® products are available in over 40 countries around the world.

To find a distributor near you, scan the code:



Everything we do is designed to give nature its best chance



For more information on OSSIX regenerative products and activities in your region:

www.datumdental.com     

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OSSIX[®] Plus

Correction of Vertical Fracture
and Subsequent Infection

Dr. Matthew J Fien, DDS, FL, USA

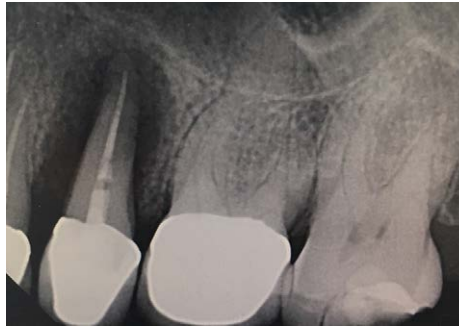
Case background

46 year old female with a non-contributory medical history presented for evaluation and treatment of swelling in her upper left quadrant. Intra oral exam revealed moderate swelling and a buccal fistula 3 mm from gingival margin of tooth 13. The radiograph revealed severe bone loss as a result of fracture and subsequent infection of tooth 13. Following extraction and full thickness flap reflection, all granulomatous tissue was meticulously debrided from the defect. The defect was grafted with a freeze dried bone allograft and an OSSIX® Plus membrane was adapted to the buccal occlusal palatal line angle and secured with a periosteal biting stabilization suture.

Pre-op

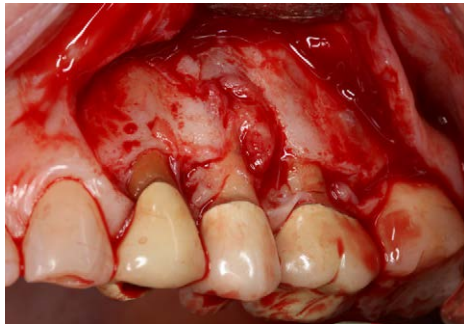


Pre-op Buccal view

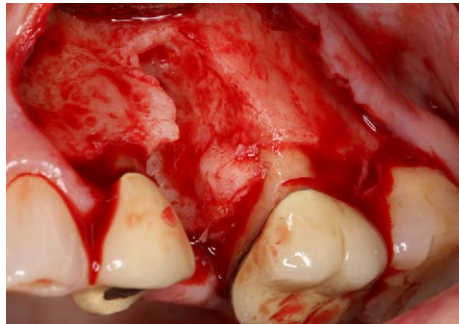


Pre-op X-ray

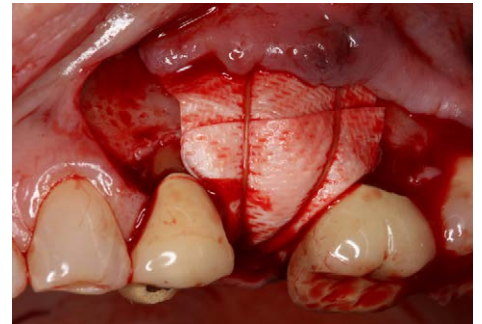
Procedure



Full thickness flap reflection

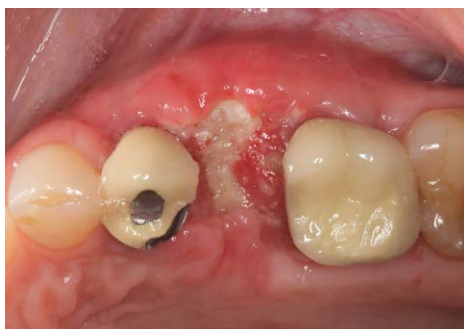


Extraction and degranulation

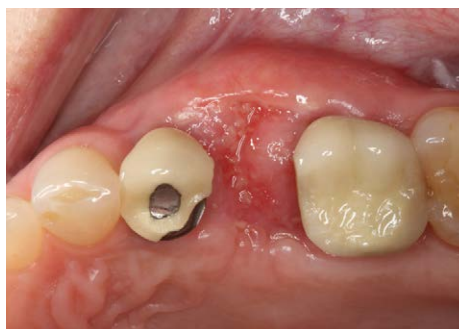


Membrane stabilization with resorbable suture

Post-op - Follow up 2-4 weeks



Occlusal view of healing at 2 weeks post-op reveals soft tissue dehiscence at incision line but no signs of infection



Occlusal view at 4 weeks post-op reveals almost complete healing over graft/membrane complex

Please refer to OSSIX Plus IFU for the full information on indications and contraindications.

Post-op - Follow up at 4 months

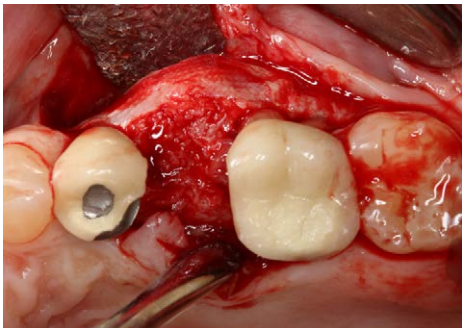


Full recovery after 4 months. Note significant increase in contours of ridge in the area of previous infection

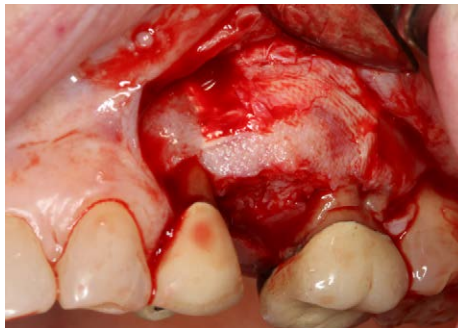


Radiograph at 4 months post-op reveals complete defect fill and good incorporation of bone graft. Note the maintenance of vertical height of alveolar ridge despite the presence of severe dehiscence defect at the time of extraction

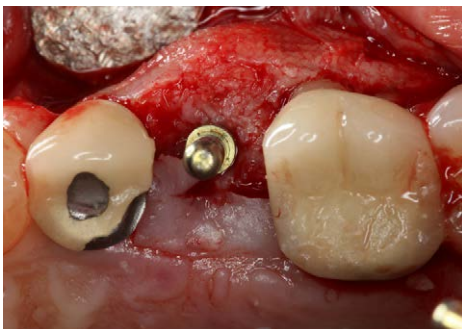
Implant placement – at 5 months



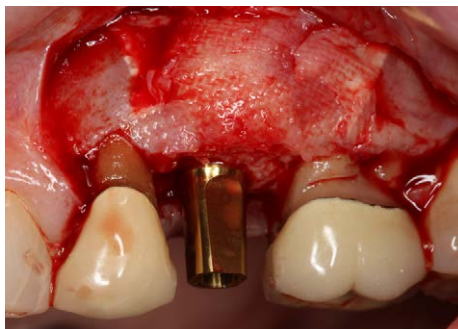
Occlusal view of regenerated ridge at the time of implant placement



Buccal view of regenerated ridge at the time of implant placement. Remnants of OSSIX Plus membrane can be seen protecting the healed ridge



Occlusal view at the time of implant placement following initial osteotomy preparation and placement of a guide pin. Note significant increase in ridge width beyond the confines of the alveolar housing



Buccal view following implant placement. Note imprinting of herring bone pattern in regenerated bone and re-establishment of the buccal occlusal line angle

Correction of Vertical Fracture and Subsequent Infection

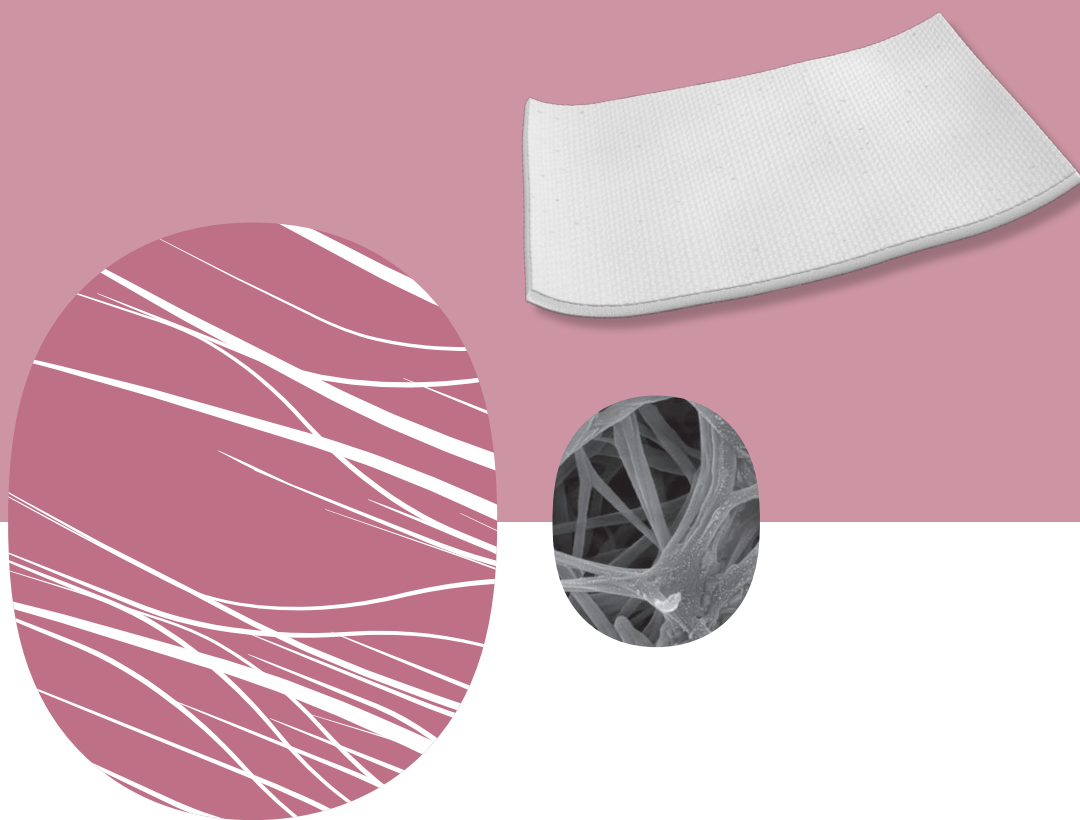
OSSIX® Plus is the only ossifying Collagen Barrier Membrane
For Guided Bone Regeneration (GBR) & Guided Tissue
Regeneration (GTR) Procedures

OSSIX Plus is available in 3 sizes.

OSSIX Plus is currently available in countries on all continents including the USA, Europe, Argentina, Canada, Chile, Colombia, Dominican Republic, Hong Kong, India, Israel, Korea, Mexico, Russia, Singapore, Thailand and Taiwan.



www.ossixdental.com



OSSIX[®] Volumax

Volumizing, Ossifying Collagen Scaffold

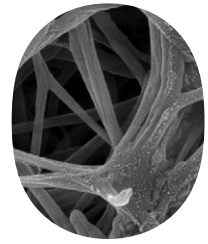
For Guided Bone Regeneration (GBR) & Guided Tissue Regeneration (GTR) Procedures

Powered by Clinically Proven GLYMATRIX[®] Technology

OSSIX® Volumax - Volumizing, Ossifying Co

Powered by GLYMATRIX® Technology

GLYMATRIX is a proprietary collagen cross-linking technology, similar to the naturally occurring glycation process in the human body. The technology uses sugars to cross-link collagen molecules producing a bioprogrammable collagen matrix, which can be tailored to deliver products of varying physical properties and customized longevity. GLYMATRIX powers the OSSIX family of regenerative solutions.



OSSIX Volumax Features & Benefits

OSSIX Volumax is a volumizing, multi-layer collagen scaffold:

- Thick and expands when wet
- Excellent handling, easy to use, adapts and adheres to the bone
- Undergoes ossification (starts after one month)*
- Safe and effective
- Can be used without bone graft (in some indications) to provide ~ 2 mm volume
- Positive effect on soft tissue quality
- May be folded/placed as double layer for extra volume (up to 4 mm)



Look for this signature herringbone pattern on both sides of the device

OSSIX Volumax Can Be Used

- To correct buccal bone loss in 2nd stage implant surgery
- To correct dehiscence type defects around implants
- For extra volume in lateral and vertical bone augmentation procedures
- In socket preservation following any extraction procedure
- In one-stage implant procedures to ensure sufficient bone
- To augment soft tissue in implants, pontic sites, masking of implants etc. (replacing connective tissue grafts)



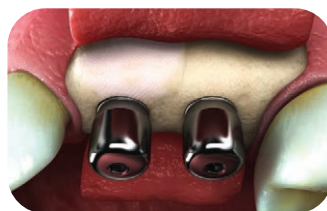
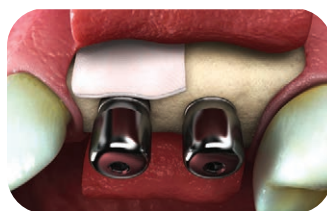
Powered by GLYMATRIX technology, OSSIX Volumax scaffold is a unique multi-layered collagen barrier

Be Prepared for the Unforeseen - One Product, Real Volume

You may encounter buccal dehiscence defects in either 1st or 2nd stage implant procedures.

OSSIX Volumax is suitable for all stages.

In cases where extra volume is required, OSSIX Volumax can be folded or placed as a double layer; no bone graft needed.

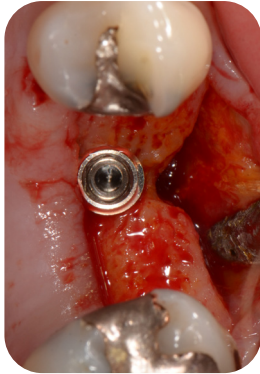


* Alveolar Ridge Augmentation and Ossification of Thick vs. Thin Sugar Cross-linked Collagen Membranes in a Canine L-shape Defect Model, Zubery et al, AAP Research Forum Poster Session, 2016

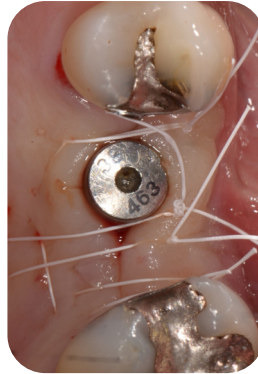
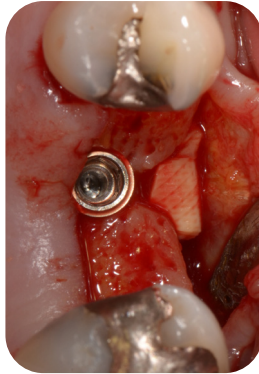
Please read IFU before use and for additional info on indications, contraindications, warnings and precautions.

Collagen Scaffold for GBR & GTR Procedures

Using OSSIX Volumax Collagen Scaffold



2nd stage - OSSIX Volumax placed folded on buccal concavity



Tension-free suturing



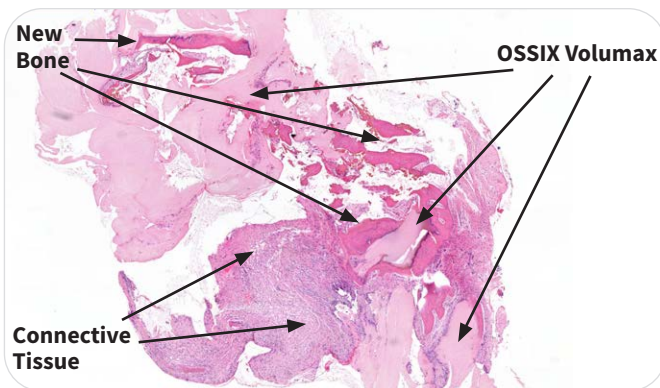
2 weeks healing



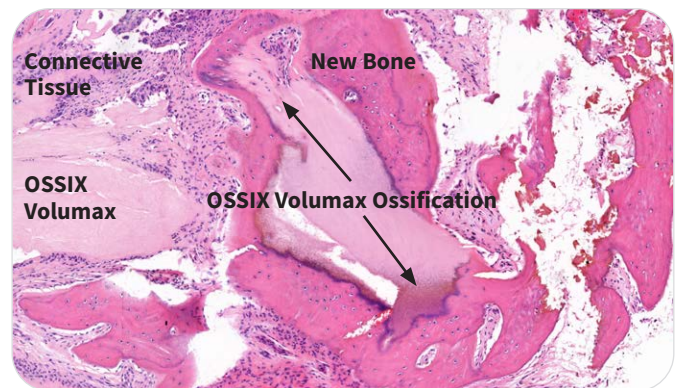
8 months - significant volume augmentation and thick keratinized tissue

Courtesy: Dr. Roberto Abundo, DDS, Torino, Italy

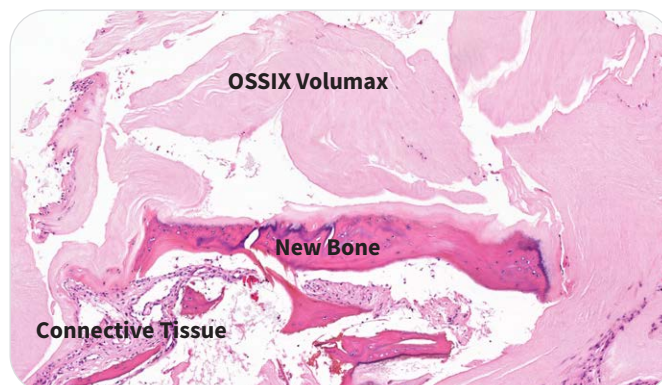
Human Histology of OSSIX Volumax at 5 Months – Ossification & Improved Bone Growth



New bone formation with OSSIX Volumax after 5 months



Ossification occurs both around and within OSSIX Volumax



Detailed analysis of the region demonstrates presence of newly formed bone tissue that appears to directly ossify the OSSIX Volumax collagen scaffold

Courtesy: Dr. Yuval Zubery, DMD, Ramat Hasharon, Israel

OSSIX® Volumax

Volumizing, Ossifying Collagen Scaffold

For Guided Bone Regeneration (GBR) & Guided Tissue Regeneration (GTR) Procedures

Ordering Information

OSSIX Volumax is currently available in the USA, Europe, Argentina, Canada, Chile, Colombia, Dominican Republic, Hong Kong, India, Israel, Korea, Mexico, Thailand and Singapore.

OSSIX Volumax is available in 4 sizes:

Description & Size	Reference No.	Catalog No.
OSSIX Volumax 10x12.5 mm	OXV1012	100100
OSSIX Volumax 15x25 mm	OXV1525	100200
OSSIX Volumax 25x30 mm	OXV2530	100300
OSSIX Volumax 10x40 mm	OXV1040	100400



Winner DrBicuspid Dental
Excellence Award Best New
Restorative Material (2017),
selected by readers & expert panel

Datum Dental at a Glance

Datum Dental Ltd., affiliated with Datum Biotech, provides innovative dental regeneration products, aiming to support and enhance the future of implantology and oral care. Its patented GLYMATRIX® core technology, a sugar cross-linking collagen biomaterial, is clinically proven in over 100 scientific publications with extensive clinical experience spanning two decades. Powered by GLYMATRIX, the OSSIX product family has enabled clinicians in hundreds of thousands of procedures worldwide to safely provide predictable, long-term results to their patients. Datum Dental continues to develop new products for GBR and GTR that simplify procedures and overcome major deficiencies in existing biomaterials through safe and transformational solutions.

Global Partners

USA:

Dentsply Sirona Implants, MIS Implants Technologies Inc., Orapharma, Inc., Sweden & Martina Inc.

Outside of USA:

Andes HSG, Bicon Singapore, Conectores Osteomaxilofaciales, Dentsply Sirona Implants (Turkey, UK), H&A Systems Ltd., Haitech Group, Hesira Med Inc., Medtech Esthetics LLC, Memodent B.V., Merfol Kft., MIS Implants (Belgium, Colombia, Romania, South Africa), P. Sideris & Co. E.E. - PS Team, Purgo, REGEDENT, Salugraft Dental, Sweden & Martina SpA, Syncrotech, VitalTech, XP Professional Ltd.

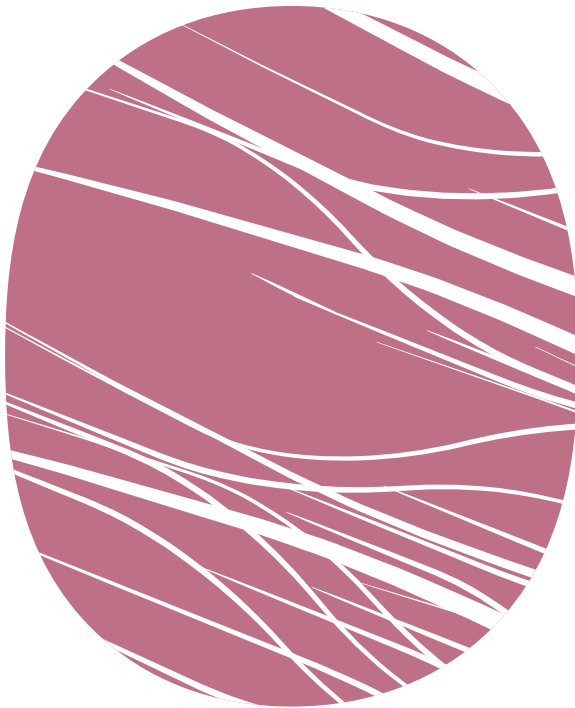
Everything we do is designed to give nature its best chance



For more information on OSSIX regenerative products and activities in your region:

www.ossixdental.com





OSSIX[®] Volumax

Correction of Posterior Horizontal Ridge
Deficiency with Simultaneous Implant
Placement Following a GBR Approach

Dr. Gustavo Avila-Ortiz DDS, MS, PhD

University of Iowa, Department of Periodontics

Case background

A 49 year old Asian American male presented with tooth #12 missing, which was extracted 8 years ago due to a root fracture. His medical history was non-contributory, but he had a history of generalized slight chronic periodontitis. He is currently enrolled in a periodontal supportive therapy program. The patient opted for an implant-supported prosthesis to replace #12 and a porcelain-fused-to-metal crown to enhance the status of #13. Upon thorough clinical and radiographic evaluation, a horizontal alveolar bone defect was identified on #12 site. The surgical treatment plan consisted on placement of a 4.2 x 11 mm implant with simultaneous hard and soft tissue augmentation using allograft particles and OSSIX® Volumax.

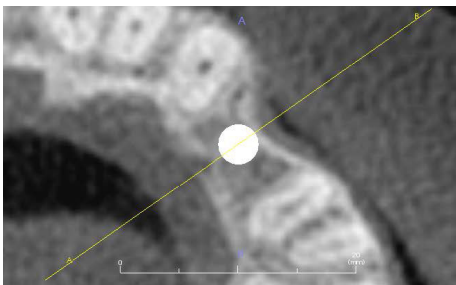
Pre-operative assessment



Occlusal and buccal view of the edentulous site



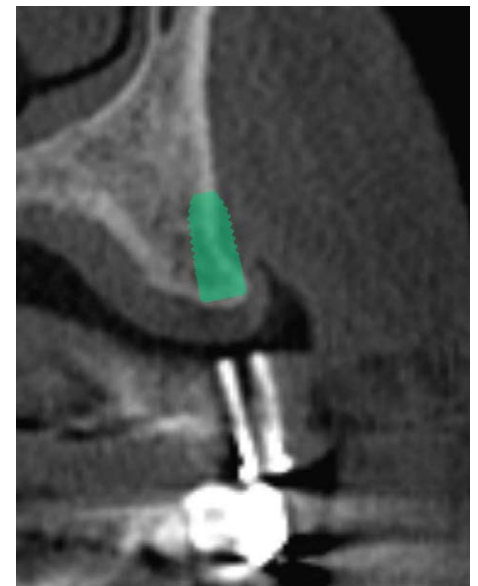
Diagnostic wax-up



Transversal CBCT cross section and volumetric reconstruction

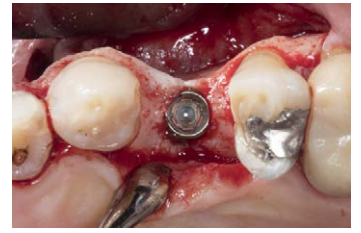
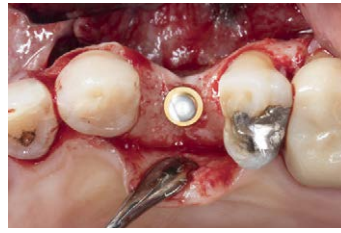
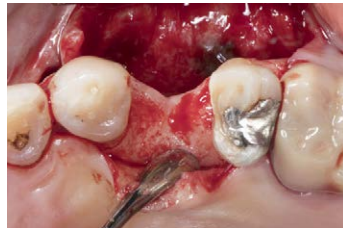


Mesiodistal CBCT cross section showing planned implant



Sagittal CBCT cross section demonstrating buccal defect

Surgical intervention



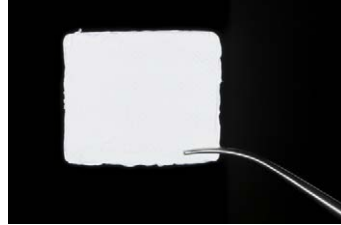
Occlusal views depicting the sequence of initial incision, flap elevation, osteotomy and implant placement



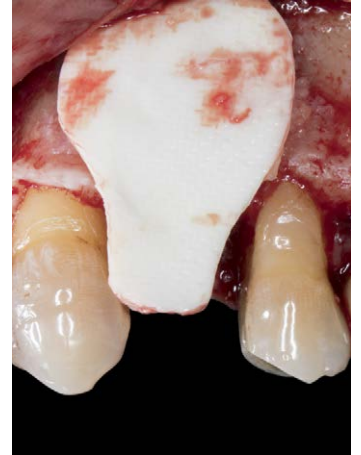
Buccal view showing the bone dehiscence



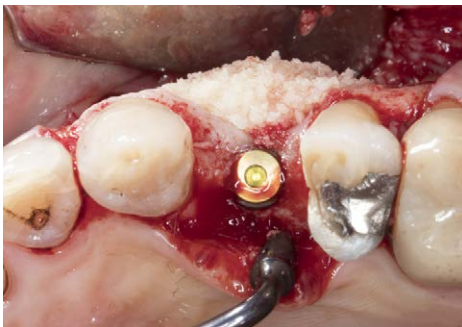
Allograft particles covering the defect



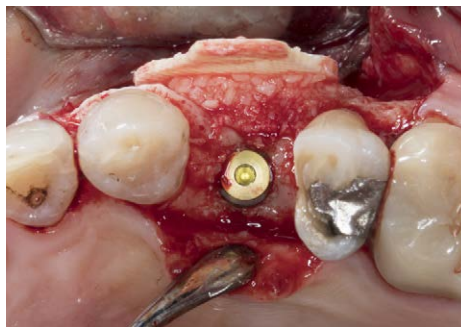
OSSIX Volumax before and after trimming it



OSSIX Volumax placed over the defect



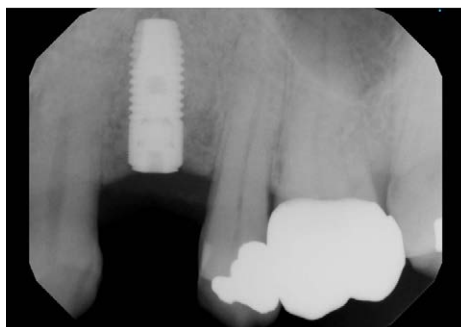
Occlusal views showing the allograft particles filling the defect and the positioning of OSSIX Volumax



over the implant head OSSIX VOLUMAX placed without bone graft



Occlusal view showing the surgical site upon closure

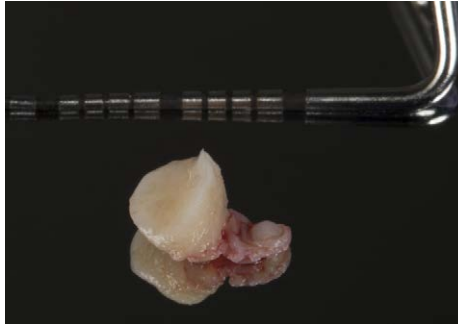


A periapical radiograph was obtained to verify implant position

Implant uncovering - 20 weeks



Occlusal view of the healed site showing good healing

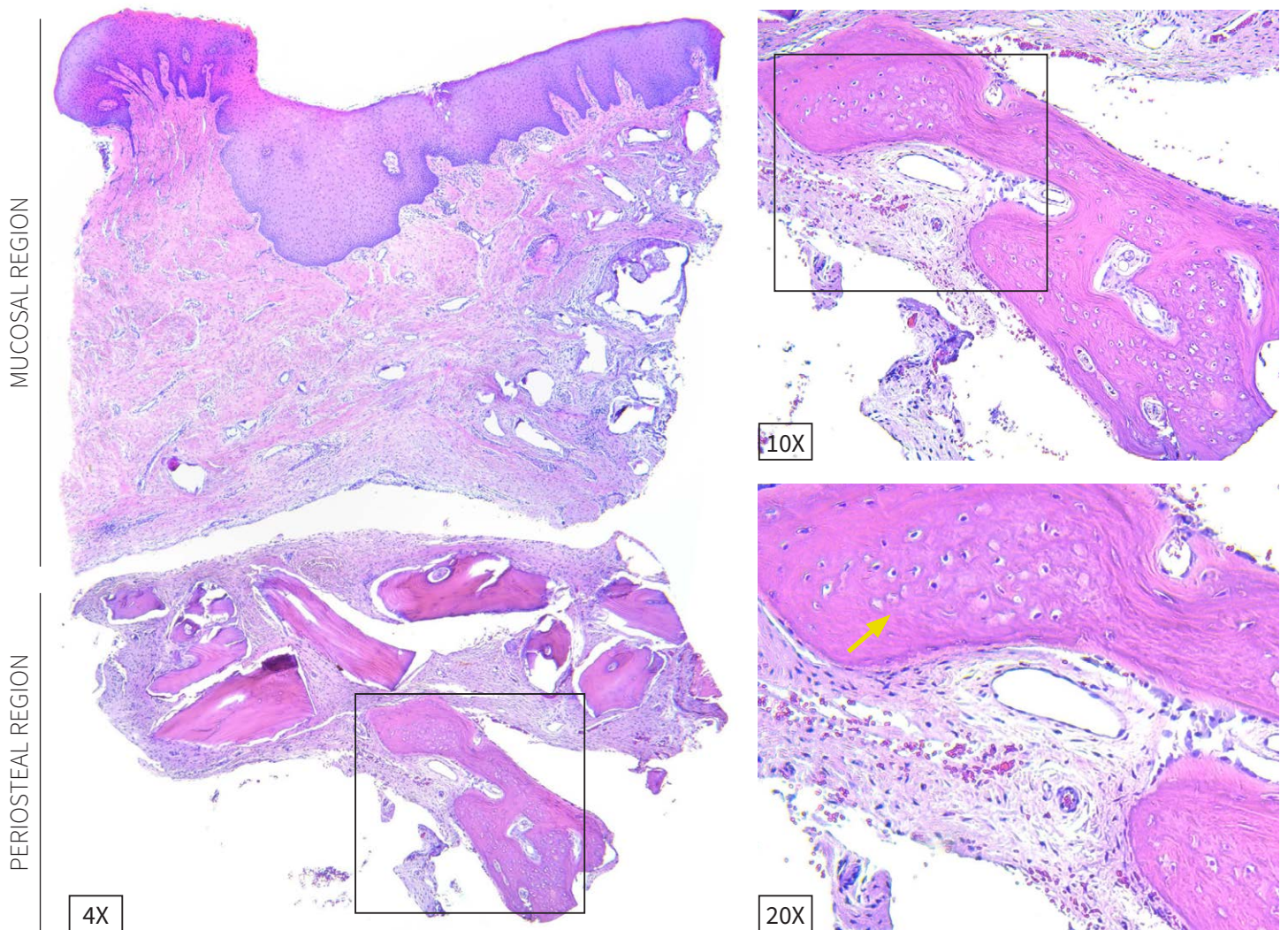


Soft tissue biopsy obtained after excision of overlying mucosa



Healing abutment in place

Histologic analysis

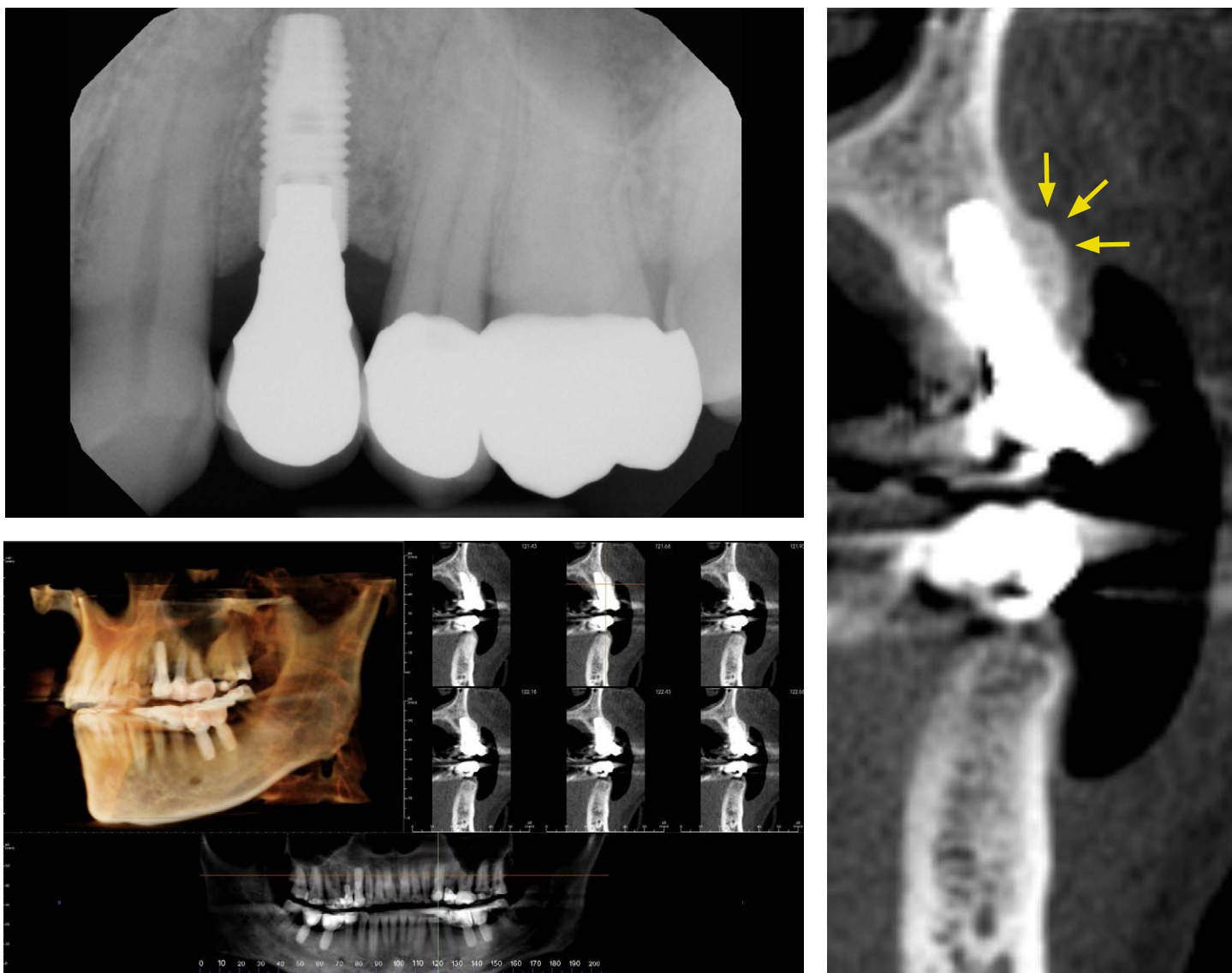


Microphotographs captured after histologic processing of the biopsy obtained following implant uncovering (Hematoxylin & Eosin - 5µm sections under light microscopy). Two different regions can be differentiated at 4x (left): A more coronal mucosal region and a more apical periosteal region in which OSSIX Volumax was located. A detailed analysis of this region at 10x and 20x demonstrates the presence of newly formed bone tissue that appears to be following an endochondral pattern of ossification (yellow arrow).

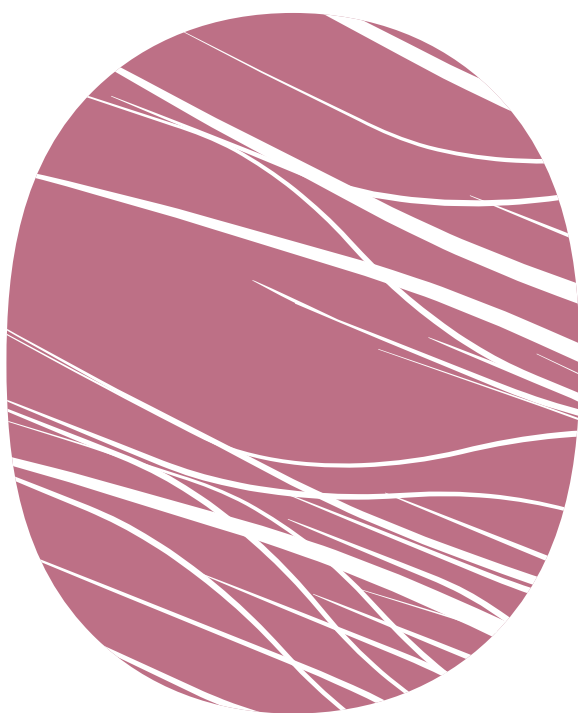
Post-functional loading follow-up at 30 days



Intraoral photographs showing the final restorative result in maximum intercuspation, occlusal and buccal view



Radiographic images depicting the final result at 30 days after delivery of implant-supported crown on #12 and PFM crown on #13. The periapical radiograph (upper left) illustrates normal marginal bone levels. CBCT volumetric reconstruction and selected sagittal section confirm ideal implant positioning and absence of pathosis, as well as excellent bone support on the buccal (yellow arrows), confirming a successful GBR outcome after using cortical allograft particles in combination with OSSIX® Volumax.



OSSIX[®] Volumax

Correction of Multiple Ridge
Deficiencies in a Maxillary Molar Area

Dr. Juan Rumeu, Barcelona, Spain

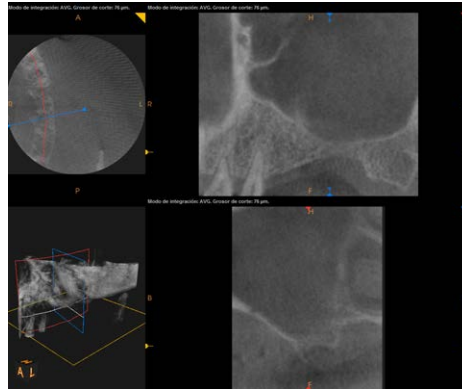
Case background

A 42-year-old female presented with tooth #2.6 and 2.7 missing. Tooth had been extracted 5 years before initial examination and an implant was placed by her dentist and failed leaving a vertical and horizontal ridge defect. A sinus lift with xenograft bone particles in conjunction with a GBR with FDBA graft and a collagen matrix (OSSIX® Volumax Scaffold) was performed to correct horizontal (double layer was used) and vertical alveolar bone deficiency. Seven months later, surgery was performed for implant placement and we could observe the new bone formation buccal and occlusally. The implants were placed by drilling the first 3mm in new bone formed by the OSSIX Volumax collagen matrix/scaffold. Healing was uneventful.

Pre-Op



Clinical photo: Lateral window sinus elevation with vertical and horizontal ridge deficiencies

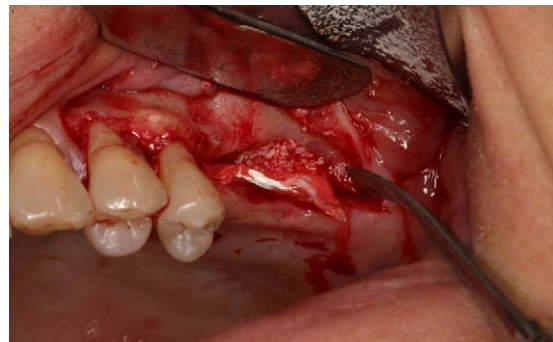


Preoperative CBCT, with vertical and horizontal ridge deficiencies combined with pneumatization of maxillary sinus

Procedure



Sinus augmentation with bovine bone mineral



Vertical bony defect augmented with FDBA + OSSIX Volumax Scaffold



OSSIX Volumax folded over the ridge defect



OSSIX Volumax covering the buccal window and folded over the ridge defect (double OV layers). No graft material used for the horizontal buccal defect

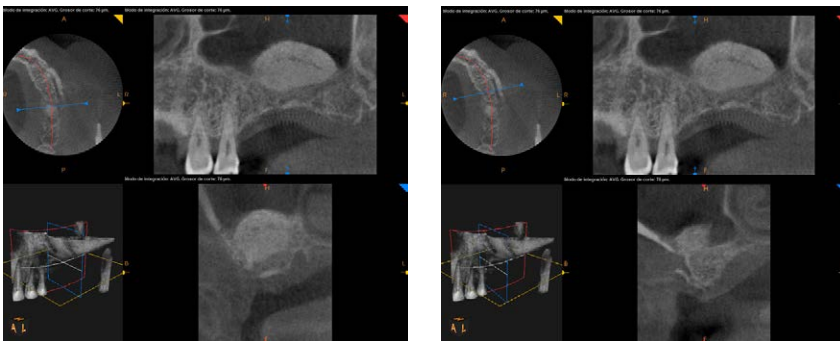
Post-op 10 days



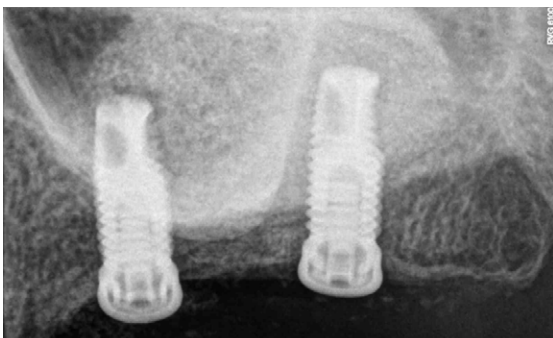
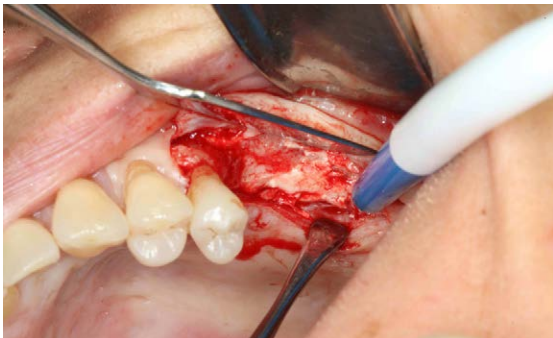
Post-op 10 days healing with primary closure of site

Implant placement – 7 months

7 months CBCT with augmentation of the maxillary sinus, evidence of OSSIX Volumax ossification (arrows)



Clinical and radiographic photos of pre and post implant placement, showing OSSIX Volumax ossification and augmentation of the alveolar ridge



Please refer to OSSIX Volumax IFU for the full information on indications and contraindications.

Correction of Buccal Ridge Deficiency at Implant Second Stage Surgery

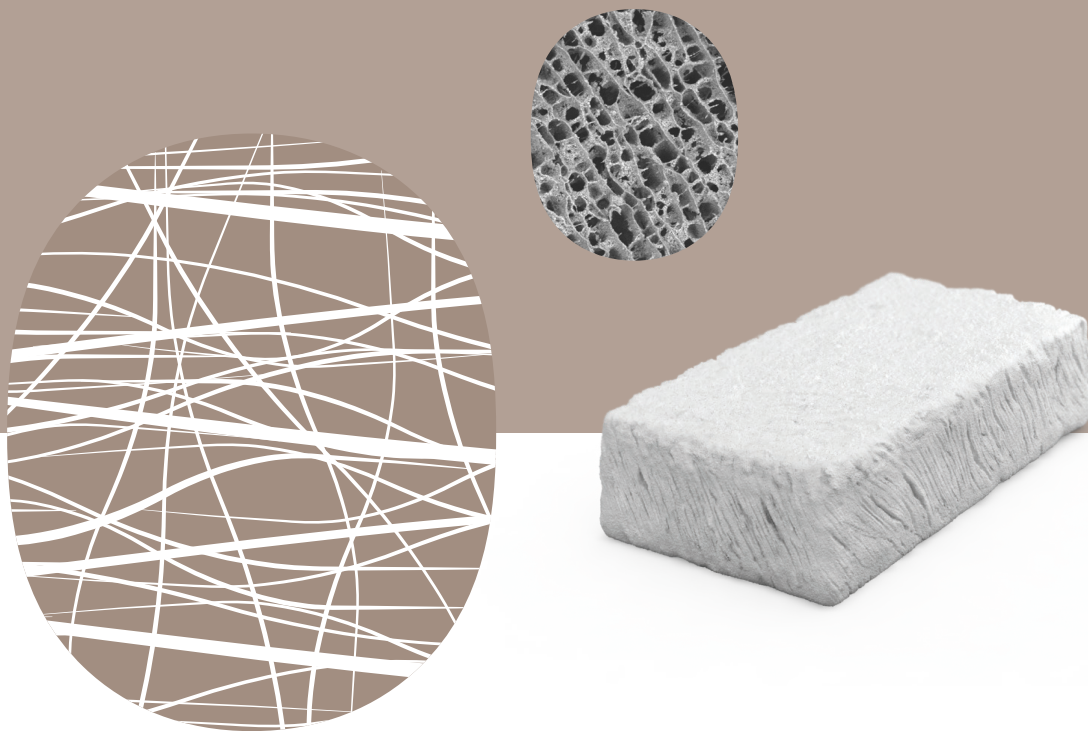
OSSIX® Volumax is a thick, cross-linked, ossifying collagen scaffold, which restores lost volume in guided bone regeneration (GBR) and guided tissue regeneration (GTR) procedures.

OSSIX Volumax is available in 4 sizes.

OSSIX Volumax is currently available in the USA, Europe, Argentina, Canada, Chile, Colombia, Dominican Republic, Hong Kong, India, Israel, Korea, Mexico, Thailand and Singapore.



www.ossixdental.com



OSSIX™ Bone

Ossifying Collagen Sponge

For Guided Bone Regeneration (GBR) & Guided Tissue Regeneration (GTR) Procedures

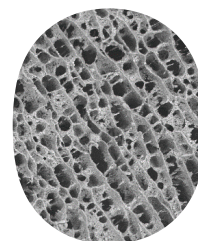
Powered by Clinically Proven GLYMATRIX® Technology

OSSIX™ Bone - Ossifying Collagen

What is OSSIX™ Bone?

OSSIX™ Bone is a sponge-like ossifying block for true bone formation, powered by clinically proven GLYMATRIX® technology.

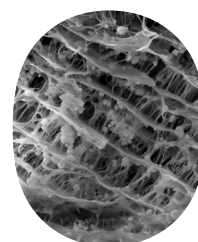
- Hydroxyapatite and sugar cross-linked collagen matrix
- Provides a spacious environment for vascularization, cellular proliferation and bone maturation
- Bone forming material that contributes to the ossification process



OSSIX™ Bone
Magnified x200

OSSIX™ Bone Features & Benefits

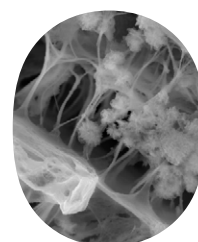
- Easy to use
- Undergoes ossification*
- Provides true bone (no remnants)
- No migration of particles
- Cost effective for Doctor and Patient
- In socket preservation and closed sinus elevation can be used without a membrane
- Predictable results and consistent efficacy



Magnified x400

OSSIX™ Bone Can Be Used

- For socket preservation following any extraction procedure
- In closed sinus augmentation procedures prior to, or in conjunction with implant placement
- In lateral and vertical bone augmentation prior to, or in conjunction with implant placement
- To correct bony defects in implants with peri-implantitis
- In periodontal bony defects around teeth



Magnified x1700

Cells integrating into
scaffold (collagen fibers)

OSSIX™ Bone - Your New Alternative!

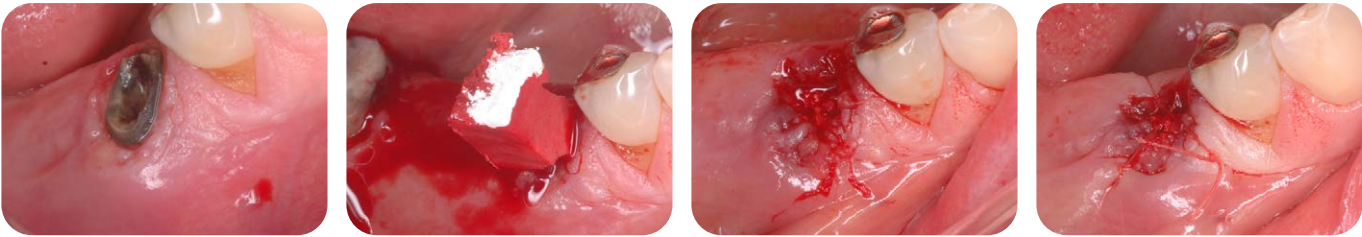
Parameter	OSSIX™ Bone	Autogenous Bone	Allograft (Particulate, Blocks)	Xenograft (Particulate, Blocks)	Synthetic
Safety & Biocompatibility	+++	+++	++	++	+ / ++
Bone Promotion (efficacy)	+++	+++	++	+	+
Consistent Performance	+++	+++	+	+	++
Ease of Use	+++	++	++	++	++
No Migration	+++	++	++	++	+
Clinical Evidence	++	+++	+++	+++	+++
Morbidity	+++	+	+++	+++	+++

* Alveolar Ridge Restoration Using a New Sugar Cross-linked Collagen-Hydroxyapatite Matrix in Canine L-shape Defects.
Zubery Y, Goldlust A, Bayer T, Woods S, Jackson N, Soskolne W.A., AO Academy of Osseointegration 2017 Annual Meeting

Please refer to the IFU before use and for the information on indications, contraindications, warnings and precautions.
<https://www.datumdental.com/en/resources/clinicians/ifu-library/>

Sponge

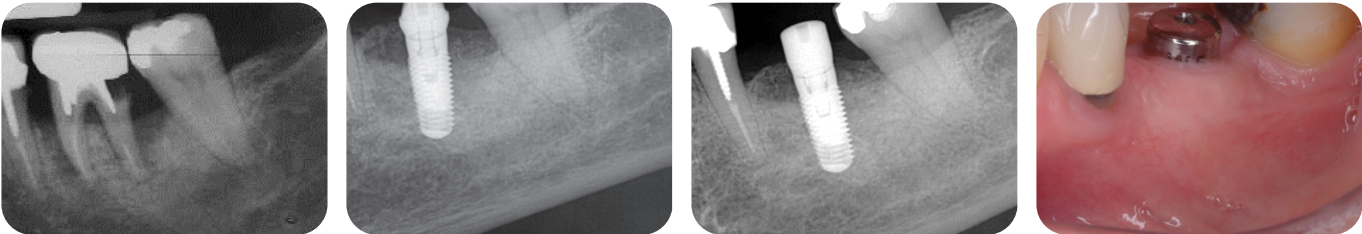
Using OSSIX™ Bone Ossifying Collagen Sponge



OSSIX™ Bone is held at the socket orifice and hydrated with patient's blood until fully soaked. In socket preservation it can be used without a membrane, tension free suturing.

Courtesy: Dr. Yuval Zubery, DMD, Periodontist, Ramat Hasharon, Israel

OSSIX™ Bone in a Socket Preservation Procedure



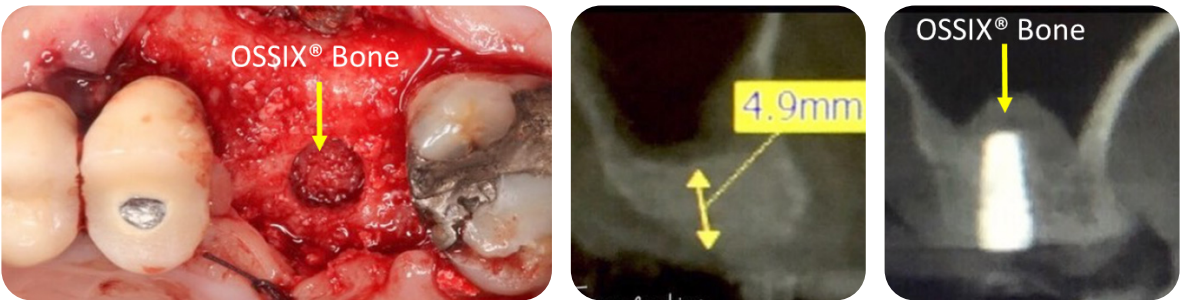
Periodontal-endodontal lesion in tooth #19 Following extraction and debridement, OSSIX™ Bone was placed in the socket

Courtesy: Dr. Yuval Zubery, DMD, Periodontist, Ramat Hasharon, Israel

4 months - implant placed in newly formed bone with a healing abutment

7 months - implant is fully integrated and ready to be restored

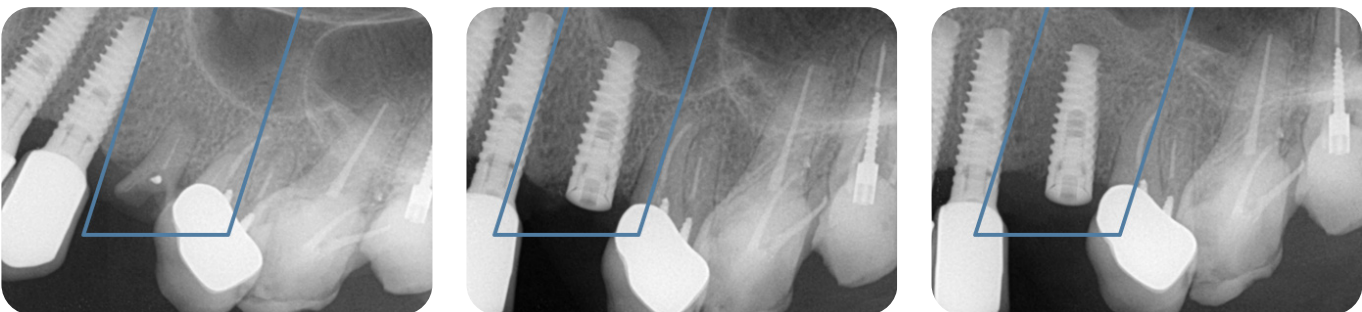
OSSIX™ Bone in a Trans-crestal Maxillary Sinus Elevation Procedure



Courtesy: Dr. Matthew Fien, DDS, Deerfield Beach, FL, USA Before

After

OSSIX™ Bone in an Osteotome Sinus Elevation Procedure



Pre extraction

At implant placement

5.5 months - implant is fully integrated

Courtesy: Dr. Yuval Zubery, DMD, Periodontist, Ramat Hasharon, Israel

OSSIX™ Bone Ossifying Collagen Sponge

For Guided Bone Regeneration (GBR) & Guided Tissue Regeneration (GTR) Procedures

Ordering Information

OSSIX™ Bone - bone grafting material, available in 3 sizes:

Description & Size	Reference No.	Catalog No.
OSSIX™ Bone 5x5x5 mm (0.125 cc)	OXB0125	200125
OSSIX™ Bone 5x5x10 mm (0.25 cc)	OXB0250	200250
OSSIX™ Bone 5x10x10 mm (0.5 cc)	OXB0500	200500



Finalist DrBicuspid Dental
Excellence Award Best New
Restorative Material (2018),
selected by readers & expert panel

Datum Dental at a Glance

Datum Dental Ltd., affiliated with Datum Biotech, provides innovative dental regeneration products, aiming to support and enhance the future of implantology and oral care. Its patented GLYMATRIX® core technology, a sugar cross-linking collagen biomaterial, is clinically proven in over 100 scientific publications with extensive clinical experience spanning two decades. Powered by GLYMATRIX, the OSSIX product family has enabled clinicians in hundreds of thousands of procedures worldwide to safely provide predictable, long-term results to their patients. Datum Dental continues to develop new products for GBR and GTR that simplify procedures and overcome major deficiencies in existing biomaterials through safe and transformational solutions.

Global Partners

OSSIX® products are available in over 40 countries around the world.

To find a distributor near you, scan the code:



Everything we do is designed to give nature its best chance



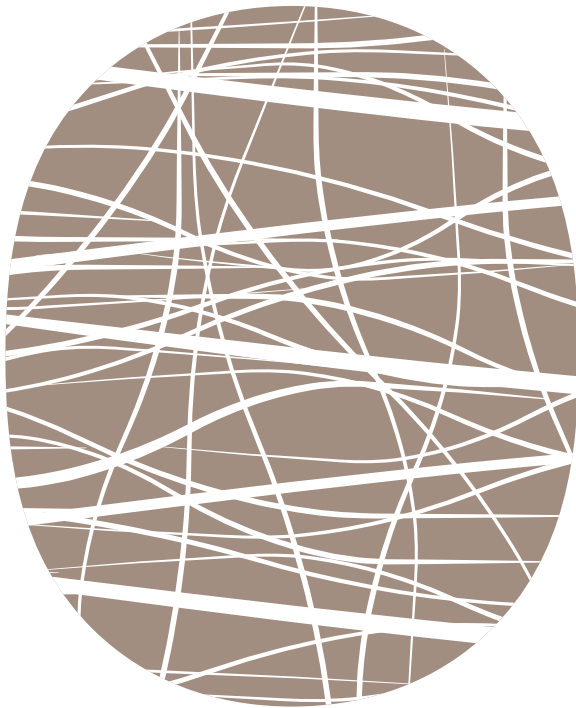
For more information on OSSIX® regenerative products and activities in your region:

www.datumdental.com



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OSSIX™ Bone

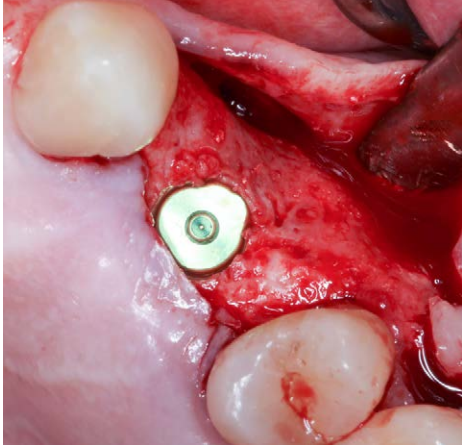
Ridge Augmentation with OSSIX™ Bone
and Simultaneous Implant Placement

Dr. Matthew J Fien, DDS, FL, USA

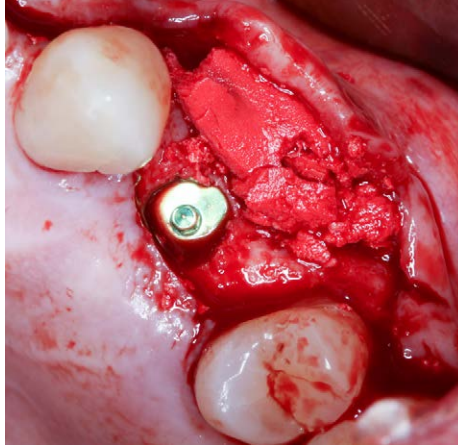
Case Background

A 67 year old female with no contributory medical history presented with an edentulous maxillary left 1st premolar. Patient reported the tooth had been missing for over 10 years. The ridge presented with a moderate ridge width deficiency and only 6mm of residual ridge thickness to support implant placement. The site was planned for implant placement with simultaneous guided bone regeneration.

Pre-Op

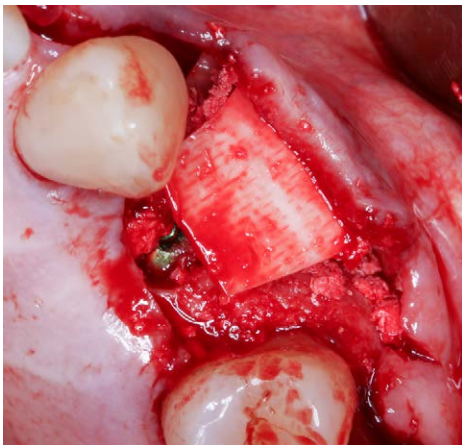


Following Implant placement, the width of the residual buccal plate was measured to be less than 1mm in thickness. Because good bleeding was noted at the site, no intra marrow decortications were placed.

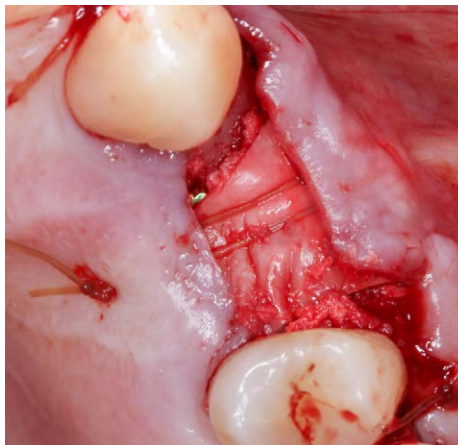


OSSIX™ Bone was adapted to the buccal plate defect and hydrated at the site with the patient's blood.

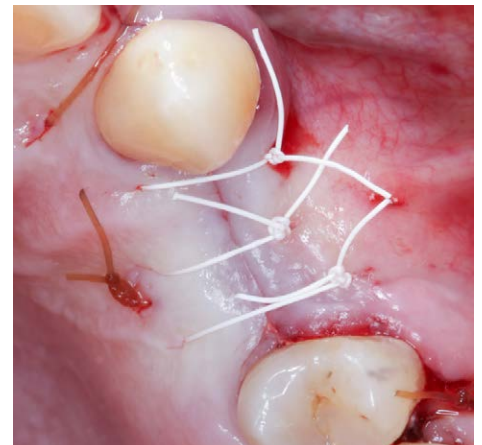
Procedure



An OSSIX® Plus membrane was adapted over the buccal occlusal line angle



The OSSIX® Plus membrane was stabilized over OSSIX™ Bone using a horizontal mattress suture with 4.0 chromic gut.



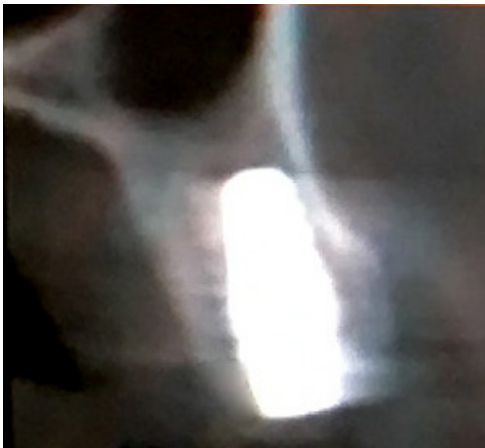
Primary closure was then obtained with 3.0 PTFE sutures.

Post-Op

Occlusal view at 3.5 months post-op reveals complete healing.



Healing of the site at 3 weeks reveals primary closure was maintained and normal healing with no signs of pain, swelling or infection.

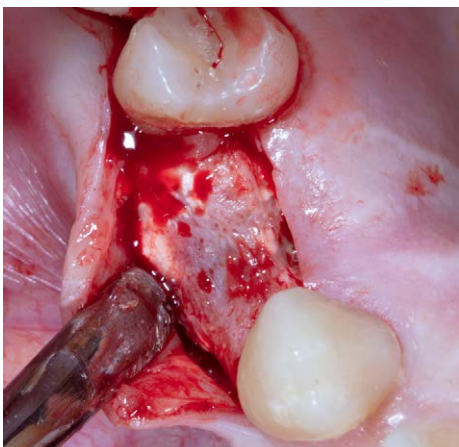


A CBCT was captured at 4 months post-op, revealing a significant increase in the thickness of the buccal plate.

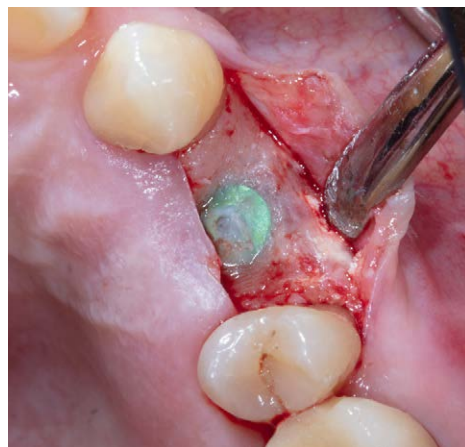
Implant Exposure



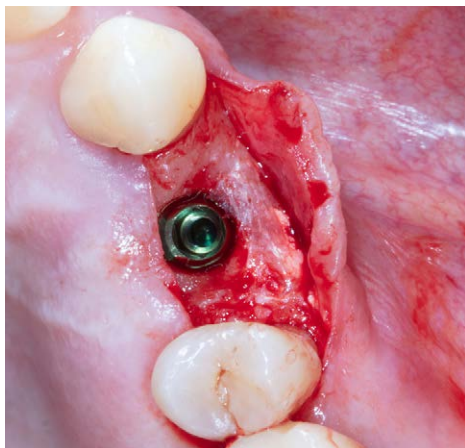
At 6 months the patient returned for uncovering of the implant.



A mid crestal incision was placed, followed by the elevation of a full thickness mucoperiosteal flap. Hard tissue regeneration was noted 2-3mm over the implant platform.



Excess bone coronal to the implant platform was carefully removed with a combination of diamond burs and hand instruments.



Exposure of the implant reveals a significant increase in the width of the buccal plate, from less than 1mm to over 4mm following guided bone regeneration with OSSIX™ Bone and an OSSIX® Plus membrane.

Ridge Augmentation with OSSIX™ Bone and Simultaneous Implant Placement

OSSIX™ Bone is a resorbable sponge-like matrix of hydroxylapatite and collagen cross-linked by sugar. Developed to augment hard tissue in periodontal and implant surgeries, it is powered by GLYMATRIX® technology

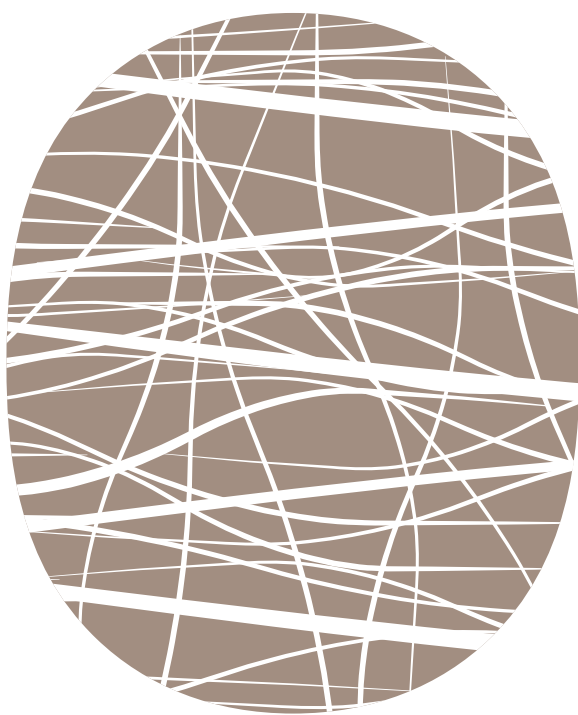
OSSIX™ Bone is available in 3 sizes.

OSSIX® products are available in over 40 countries around the world.

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OSSIX™ Bone

Implant Placement Following Socket Preservation with OSSIX Bone

Dr. Yuval Zubery, DMD, Periodontist, Ramat-Hasharon, Israel

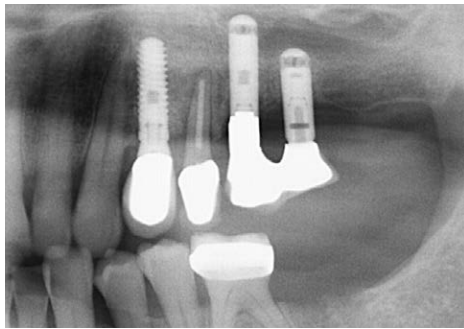
Case background

64 year old male with a non contributory medical history presented for evaluation and treatment of left maxillary premolar. Intra oral examination revealed left maxillary second premolar with a buccal abscess and Cl.II mobility, probing to the apex on the buccal aspect. The radiograph revealed PDL widening.

Following extraction, all granulation tissue was removed.

The defect was grafted with OSSIX™ Bone collagen sponge soaked with patient's blood (5X5X5mm) and secured with tension-free sutures. OSSIX Bone was left exposed to the oral cavity (The patient received antibiotic coverage - Amoxicillin 15 gr/day for 7 days).

Pre-op



left maxillary premolar – X-ray revealed PDL widening



Buccal view revealed buccal abscess and Class II mobility, probing to the apex on the buccal aspect

Procedure



Hydrating OSSIX Bone with patient's blood, until fully soaked



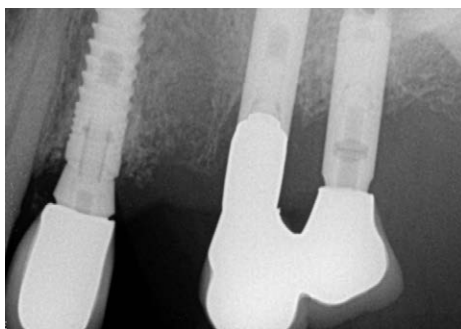
Position OSSIX Bone level with the original bone crest



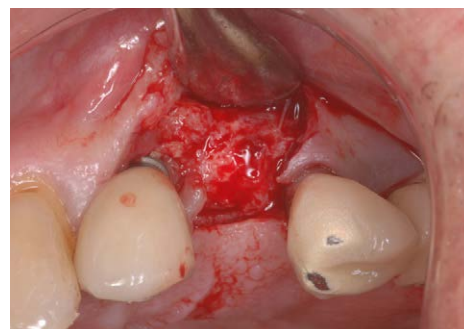
Suturing over with minimal tension

Post-op

Occlusal view at 3.5 months post-op reveals complete healing.



In radiographs: radio opaque material in extraction socket



Occlusal view of regenerated ridge at the time of implant placement. Note significant increase in ridge width beyond the confines of the alveolar housing

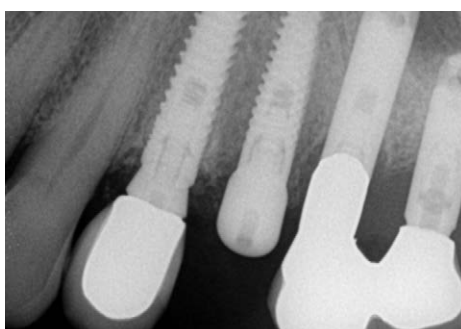
Implant placement



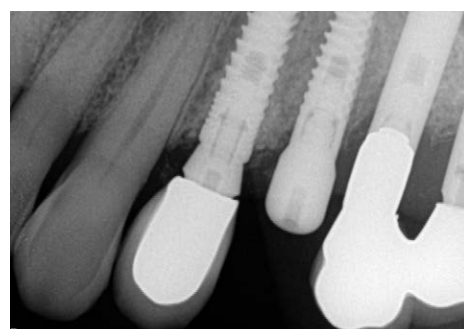
Occlusal view following implant placement. Ossix Volumax is placed on the buccal side



Buccal & Occlusal view of regenerated ridge at the time of implant placement



Immediate post-implant placement radiograph



4.5 months post-implant placement

Implant Placement Following Socket Preservation with OSSIX™ Bone

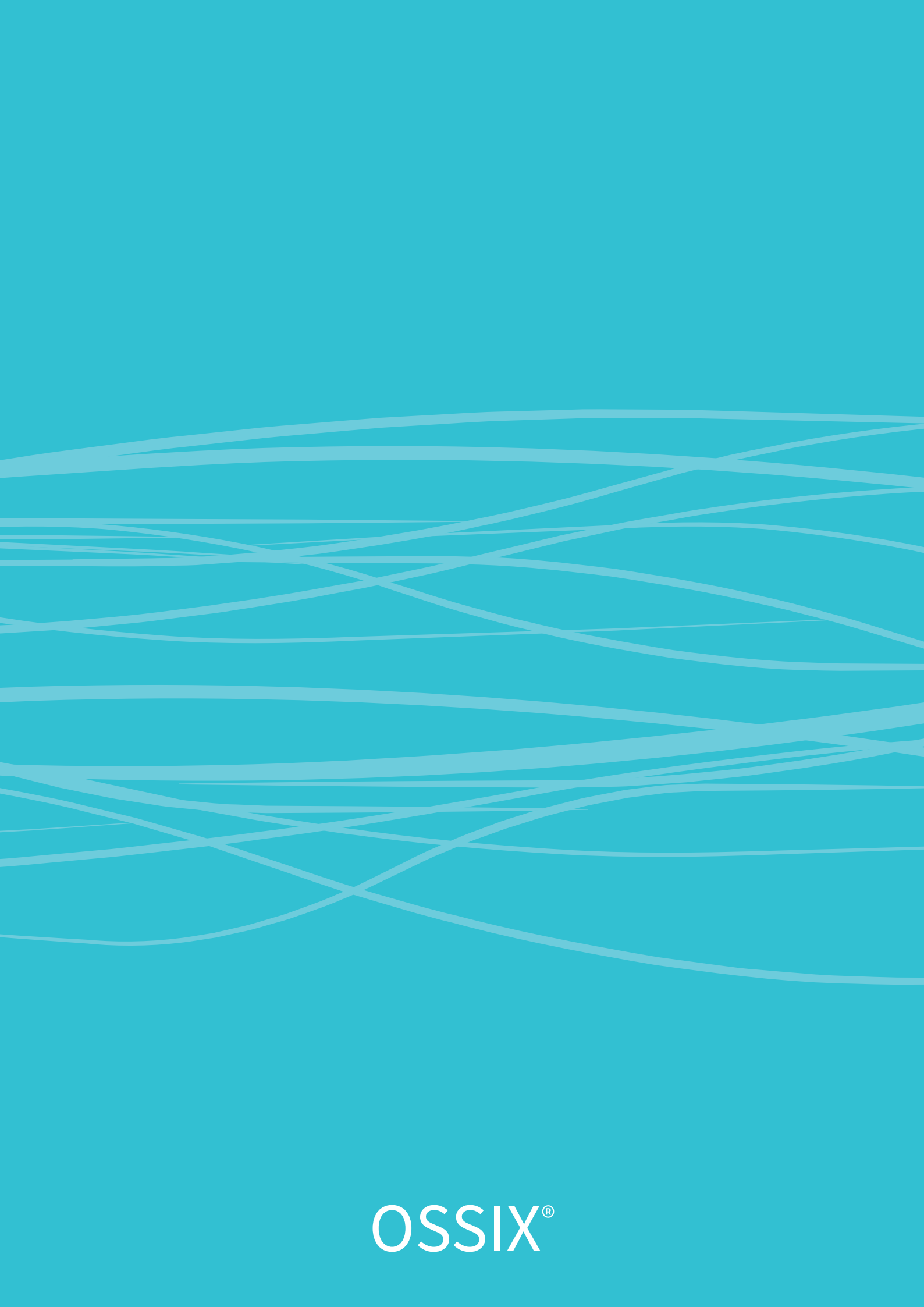
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