



BIOMATERIALS

A WIDE RANGE
OF REGENERATIVE
SOLUTIONS



Superior Implant Technology

AB BIOMATERIALS OFFERS PORTFOLIO OF REGENERATIVE MATERIALS FOR IMPLANTOLOGY, AIMED AT PROVIDING SOLUTIONS FOR A WIDE RANGE OF MEDICAL INDICATIONS AND BIOLOGIC SITUATIONS.

AB BIOMATERIALS' WIDE VARIETY OF SOLUTIONS ALLOWS CLINICIANS TO CHOOSE THE OPTIMAL PRODUCT TO ENSURE SAFE AND PRECISE SURGICAL OUTCOME.

INDICATIONS:

1/

SOCKET AND RIDGE PRESERVATION



2/

FILLING OF EXTRACTION SOCKETS



3/

BONE DEFECTS



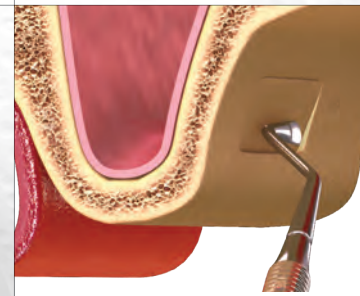
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LATERAL AUGMENTATION/RIDGE AUGMENTATION



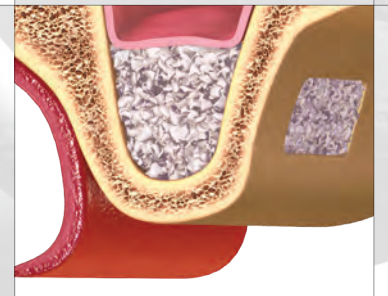
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LATERAL BONE WINDOW CLOSURE



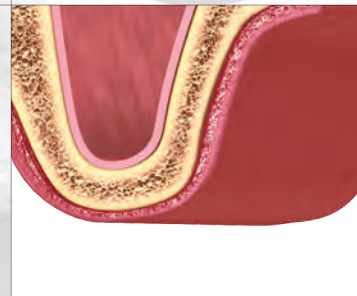
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SINUS AUGMENTATION



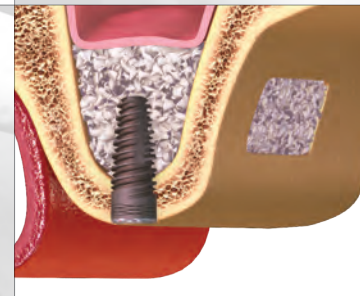
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CLOSED SINUS AUGMENTATION



8/

SINUS AUGMENTATION WITH IMPLANTATION



BIOFILL-B

BOVINE CANCELLOUS SUBSTITUTE



BIOFILL-B is a natural bovine cancellous bone substitute.

New Gold Standard in Xenograft, CE1023, ISO 13485, FDA certificates.

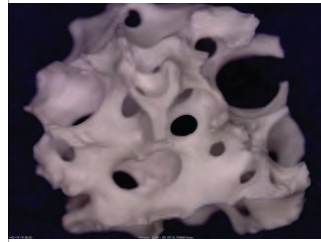
BIOFILL-B is made from 100% cancellous bone without any cortical portion.

Innovative pulverizing technique allows multiparous structure, maximizing blood vessel ingrowth.

INDICATIONS

1. Bone regeneration and augmentation
2. Alveolar ridge defect
3. Extraction defect
4. Sinus augmentation
5. Periodontal defect

BONE GRAFT BIOLOGY



Angiogenic structure
Gold Standard
Multiporosity

MANUFACTURING

1. Safety of raw material.
2. BIOFILL-B passed Virus inactivation test, Toxicity test, Biocompatibility test and Gamma sterilization.
3. Manufacturing Technique of Multiporosity.
4. Size of the cancellous bone: 0.5-1.2mm 1.2-1.7mm

CLINICAL CASE

OPERATION SITE: # 17 SINUS GRAFT

Male / 63-years-old
Myung In Dental Clinic / **Lee, Myung Ho, D.D.S.** / CheonJu, Cheonrabukdo / Korea
BioFill-B augmentation of the sinus and coronal defect has been successfully performed.

BIOPSY RESULTS



3 Months biopsy findings



4 Months biopsy result



4 Months biopsy findings

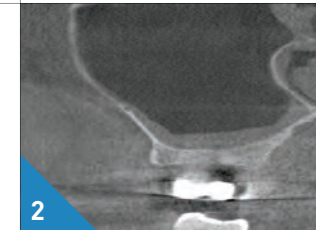
Available sizes:

- BioFill-B-0.5g | 0.5-1 mm Granule
- BioFill-B-0.5g | 1-2 mm Granules
- BioFill-B-2g | 0.5-1 mm Granule
- BioFill-B-2g | 1-2 mm Granules



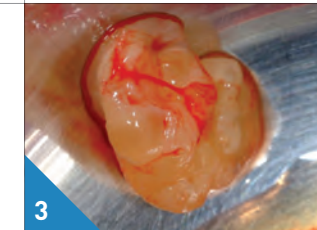
1

Vertical Augmentation into the sinus 5-8mm necessary to provide enough bony height on the right second molar.



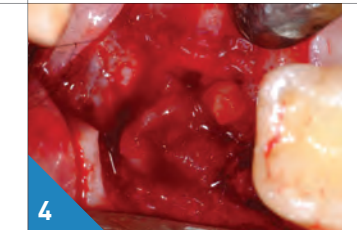
2

#17 CT image, very low ridge height



3

PRF followed by Graft (BioFill-B plus PRP) inserted into the sinus via implant prep site

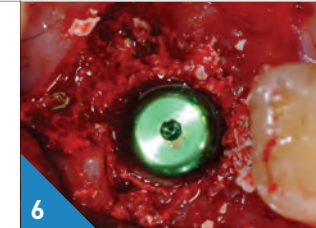


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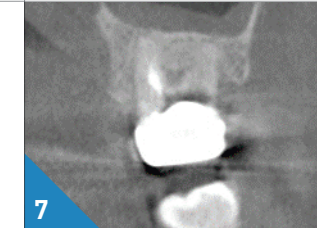


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PRF followed by Graft (BioFill-B plus PRP) inserted into the sinus via implant prep site

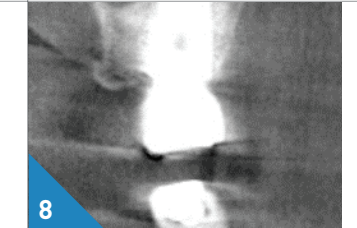


6



7

Before surgery - CT image
BioFill-B augmentation of the sinus and coronal defect has been successfully performed.



8

After surgery



9

7 months after surgery.
BioFill-B mass in the sinus and coronal part became quite dense enough to take functional load.



10

1 year follow up after surgery



11

2.5 years follow up after surgery



12

4.5 years follow up after surgery

BIOFILL-H

BONE GRAFTS AND TISSUES FROM HUMAN SOURCE



A cooperation between A.B. Dental and DIZG, the largest European Tissue Bank. A.B. Dental is an official distribution partner of **BIOFILL-H**, the human bone grafts products series.

INDICATIONS

GRANULES:

1. Ridge augmentation for future implant placement
2. Osseous defects
3. Socket Preservation
4. Sinus lift
5. Periodontal defects

BLOCKS:

1. A predictable and highly effective alternative to traditional block grafting
2. Ridge augmentation



NEW!

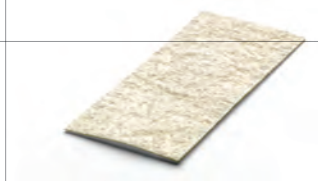
CORTIFLEX® –

DEMINEALISIERTER CORTICAL SPAN (flexible after Rehydration)

CORTIFLEX® – Demineralized Cortical Strip (flexible after rehydration)

Available sizes:

- AB 7545 | Cortical Strut 15 × 30 mm
- AB 7546 | Cortical Strut 15 × 60 mm
- AB 7547 | Cortical Strut 15 × 120 mm
- AB 7548 | Cortical Strut 20 × 25 mm



EPIFLEX®

Matrix of human skin allograft – cell-free. A Gold Standard product for soft tissue supplement in Europe and the United States.

EPIFLEX® HUMAN SKIN, CELL-FREE, FREEZE DRIED

Available sizes:

- AB 4200 | EPIFLEX® Thickness 0.3mm-0.8mm | 20x10mm
- AB 4300 | EPIFLEX® Thickness 0.3mm-0.8mm | 30x10mm
- AB 4400 | EPIFLEX® Thickness 0.3mm-0.8mm | 40x10mm
- AB 4225 | EPIFLEX® Thickness 0.3mm-0.8mm | 15x15mm
- AB 4450 | EPIFLEX® Thickness 0.3mm-0.8mm | 30x15mm
- AB 4402 | EPIFLEX® Thickness 0.3mm-0.8mm | 20x20mm
- AB 4800 | EPIFLEX® Thickness 0.3mm-0.8mm | 20x40mm



MINERALIZED CORTICAL GRANULES

Provides a comprehensive solution for temporary and permanent restoration while retaining maximum precision.

Available sizes:

- AB 1001 | 0.212-0.85 mm | 1cc
- AB 1003 | 0.212-0.85 mm | 3cc
- AB 1005 | 0.212-0.85 mm | 5cc
- AB 1101 | 1-2 mm | 1cc
- AB 1103 | 1-2 mm | 3cc
- AB 1105 | 1-2 mm | 5cc
- AB 6001 | 0.5-1.0 mm | 1cc
- AB 6003 | 0.5-1.0 mm | 3cc
- AB 6005 | 0.5-1.0 mm | 5cc



CORTICAL/ CANCELLOUS BLOCKS

Human cortical-cancellous bone block.

Available sizes:

- AB 3745 | Thickness 4-5mm j-form | 20x10mm
- AB 3765 | Thickness 10 mm c-form | 30x10mm
- AB 3601 | Cancellous cube | 40x10mm
- AB 3609 | Cancellous cube



DBM-DEMINEALIZED BONE MATRIX

Bone Graft – putty texture. Consists of 93% demineralized bone and 7% Hyaluronic acid. Comes in a variety of volumes. READY TO USE NO REHYDRATION OR MIXING.

Available sizes:

- AB 3005 | DBM PUTTY 0.212-0.85 mm
- AB 3010 | DBM PUTTY 0.212-0.85 mm
- AB 3025 | DBM PUTTY 0.212-0.85 mm



DEMINEALIZED CORTICAL GRANULES

Bone Graft – has undergone optimized demineralization process. Releases growth factors and enables fast and efficient bone regeneration.

Available sizes:

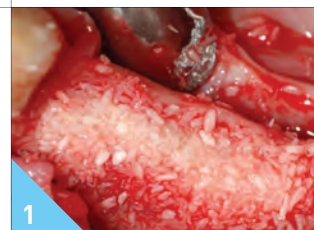
- AB 2001 | DBM 0.212-0.85 mm | 1cc
- AB 2003 | DBM 0.212-0.85 mm | 3cc
- AB 2005 | DBM 0.212-0.85 mm | 5cc
- AB 2101 | DBM 1-2 mm | 1cc
- AB 2103 | DBM 1-2 mm | 3cc
- AB 2105 | DBM 1-2 mm | 5cc

CLINICAL CASE

IMPLANT AND GRANULATION TISSUE REMOVAL RESULTING IN MAJOR BONE LOSS

Prof. Gabi Chaushu, DMD, MSc., Head, Department of Oral & Maxillofacial Surgery, Rabin Medical Center, Israel / Head, Department of Oral & Maxillofacial Surgery, The Maurice and Gabriela Goldschleger School of Dental Medicine, Tel Aviv University

Prof. Nissan Joseph, Prosthodontist, Head of Oral-Rehabilitation & Implant-Prosthodontics, Rabin Medical-Center, Israel / Associate Professor Dep. Oral-Rehabilitation School of Dental-Medicine, Tel-Aviv University / President: The Israel Society of Implant-Dentistry



1 Use of FDB-Allograft DIZG to fill the bone loss



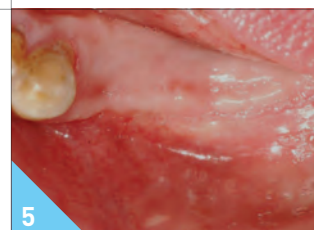
2 Collagen membrane coverage



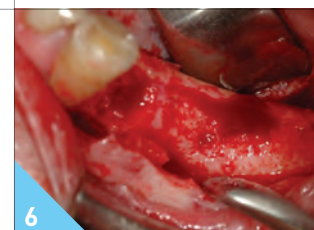
3 Soft tissue closure



4 Soft tissue healing



5 Soft tissue healing



6 Bone gain after 4 months



7 Final rehabilitation



8 Final rehabilitation

BIOFILL-S

BONE VOID FILLER



BIOFILL-S is a porous synthetic ceramic, containing 99.9% beta tricalcium phosphate (β -TCP), designed for the filling of bone voids or defects, and is available in several geometries (granules, blocks, cylinders and wedges).

BIOFILL-S macroporosity and porous interconnectivity allows an excellent osteointegration, as well as a total vascularization of the implant with an excellent mechanical resistance.

BIOFILL-S is highly bioactive, stimulating the proliferation and differentiation of osteoblasts, allowing a total replacement by new vital bone during the healing process, within 1-6 months.

INDICATIONS

BIOFILL-S is intended to be used as a bone void filler or augmentation material for bone defects that are not intrinsic to the stability of the bony structure:

1. Sinus floor elevation
2. Alveolar filling or augmentation
3. Alveolar regeneration
4. Filling of extraction cavities
5. Reconstruction of tumor void and cysts defects

1/

EXCELLENT MECHANICAL RESISTANT

2/

EXCELLENT MALLEABILITY

3/

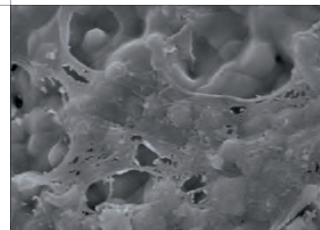
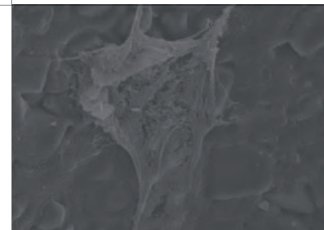
EXCELLENT BIOACTIVITY

Its osteoconductive structure combined with its high hydrophilic promotes the suffusion of biological fluids.

BIOFILL-S is Radiopaque, allowing the perfect monitorization of osteointegration.

Due to his high hydrophilic profile the particles present high cohesivity, conserving the volume of the initial cavity.

CELLULAR ADHESION AFTER 5 DAYS



Available sizes:

BioFill-S-0.5g | 0.5-1 mm Granules (5 Unit pack)

BioFill-S-0.5g | 1-2 mm Granules (5 Unit pack)

BioFill-S-1g | 0.5-1 mm Granules (5 Unit pack)

BioFill-S-1g | 1-2 mm Granules (5 Unit pack)

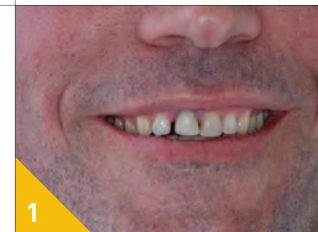
CLINICAL CASE

BONE REGENERATION AFTER EXODONTIA AND IMMEDIATE IMPLANT PLACEMENT

Bone Graft: 0,5g adboneTCP (0.1-0.5 mm)

Patient: Male, 35 years old

Dr. Hiram Fischer Trindade, European Implantology Center EIC, Portugal



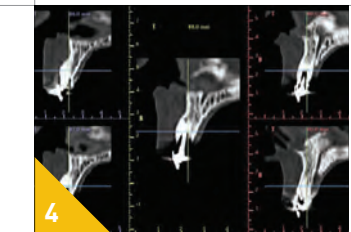
1 Before surgery: 35-year-old male patient with a severe root resorption



2 Radiographs illustrating the root resorption



3 Initial CT-Prior to treatment



5 Exodontia: Root extraction and curettage



6 Insertion of adbone@TCP



7 Implant placed simultaneous with grafting



8 Implant Placement



9 A week after the surgical procedure



10 3 months follow up



11 Excellent bone formation around the implant. No signals of infection or inflammation



12 12 months' follow-up

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