

Dental Putty

General Description

- Dental Putty is a synthetic, pre-mixed and fully biocompatible injectable bone graft which is designed to act as an osteoconductive scaffold to support the ingrowth and fusion of adjacent viable bone when placed in an osseous environment.
- Dental Putty is mainly composed of bioactive silicate-substituted β -TCP and synthetic polymer.
- Dental Putty contains no tissue of human or animal origin therefore carries no risk of disease transmission.
- Dental Putty maintains its architecture and structural integrity during the bone healing period, with complete bioresorption occurring between 6-12 months.
- Multiple clinical histology studies demonstrate up to 50% new bone at 12-18 weeks with resorption in line with remodelling.

FEATURES

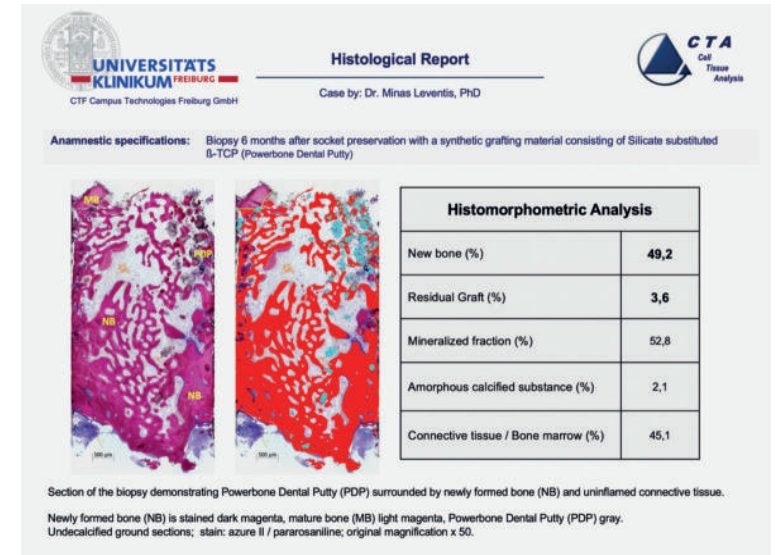
- Membrane Free Application
- Use direct from the syringe without mixing
- Osteoconductive
- Osteoinductive
- Biodegradable
- Biocompatible
- Radiopaque
- Gamma sterilized

INDICATIONS

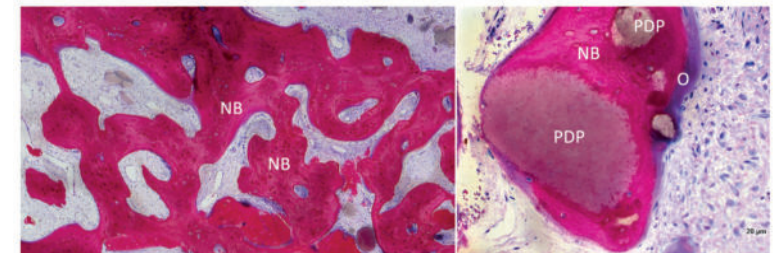
- Socket grafting
- Bone Augmentation
- GBR/GTR
- Sinus lifting
- Peri-implant gaps



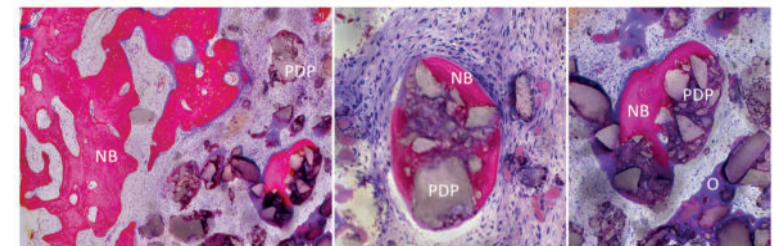
Histologies Of Dental Putty



Section of the biopsy demonstrating Powerbone Dental Putty (PDP) surrounded by newly formed bone (NB) and uninfamed connective tissue. Newly formed bone (NB) is stained dark magenta, mature bone (MB) light magenta, Powerbone Dental Putty (PDP) gray. Undecalcified ground sections; stain: azure II / pararosaniline; original magnification x 50.



Details
Powerbone Dental Putty (PDP) particles demonstrate osteoid (O) and new bone formation (NB) on the particle surface.



Details
Powerbone Dental Putty (PDP) particles demonstrate osteoid (O) and new bone formation (NB) on the particle surface. PDP particles appear in dissolution. Uninfamed connective tissue, well vascularized.

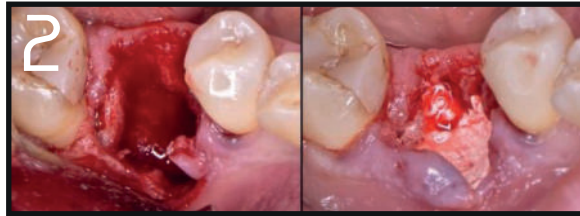


CASE STUDY

Dr. Minas Leventis, PhD, United Kingdom



1 Initial situation. Failing lower right first molar. Acute infection, periapical pathology and severe bone loss.



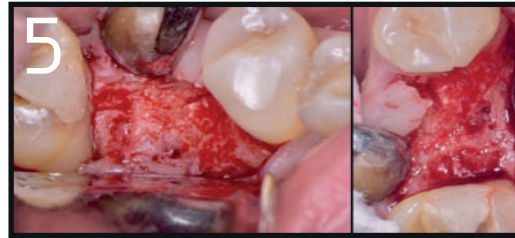
2 Difficult extraction. A small flap was raised to remove all the pieces of the roots, and clean the site thoroughly. Socket grafting with 0.5cc Powerbone Dental Putty. No membranes were used.



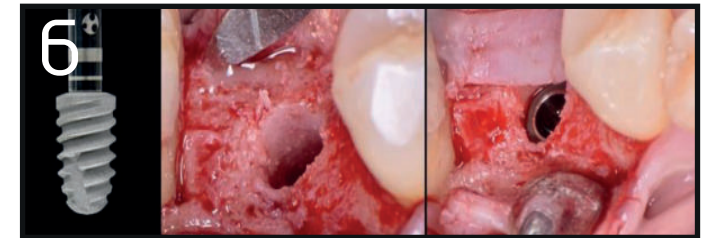
3 No-primary closure in order to preserve the anatomy of the vestibule and the keratinised soft tissues buccally. Oxygen-releasing oral gel (Bluem) to control the bacteria and enhance the secondary-intention healing of the soft tissues over the grafted site.



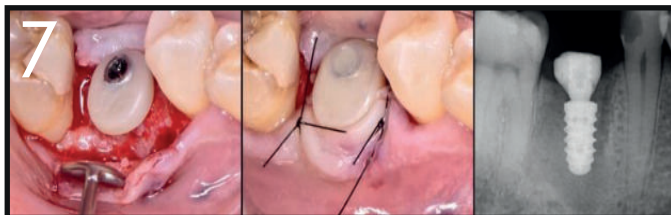
4 Four months post-op. Adequate healing considering the lack of soft and hard tissues at extraction. Note the coverage of the site with newly-formed keratinised soft-tissues.



5 Re-entry for implant placement. The site is completely filled with regenerated high-quality bleeding bone.



6 A 5x8.5 implant (Bioner Top DM) was placed in the correct 3D positioning, achieving high primary stability.



7 A customised anatomical healing abutment (VPI Cervico) was fabricated chair-side and immediately fitted to the implant. The flap was sutured around the anatomical healing abutment.



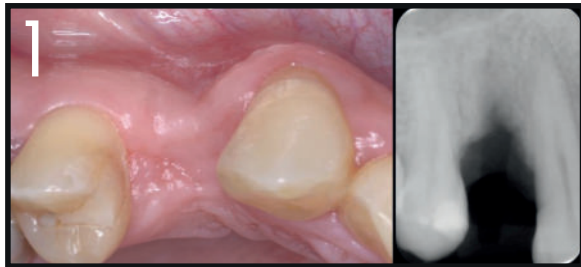
8 Clinical views four months post-op, after detaching the anatomical healing abutment.



9 Final result. Screw-cemented design, monolithic zirconia crown, permanently cemented on a CAD/CAM customised milled titanium abutment (Beever Dental Technology Lab, Leeds, UK).

CASE STUDY

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1 Initial situation. Atrophy of the upper right first premolar area.



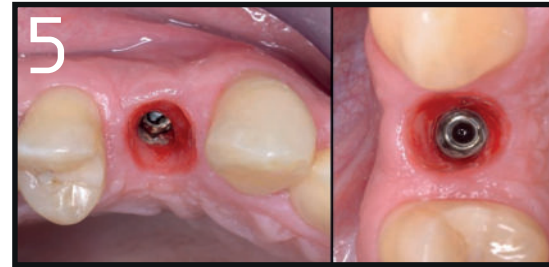
2 A 3.75x11.5 implant (Keystone Paltop) was placed in the optimal 3D position. A customised anatomical healing abutment (VPI Cervico) was fabricated and immediately fitted to the implant with Bluem oxygen gel.



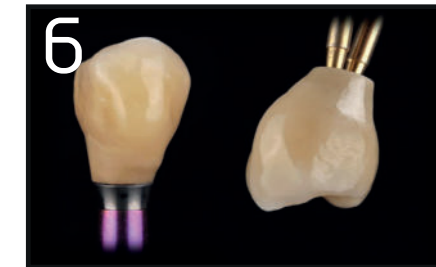
3 The area was rafted buccally with 0.3cc Powerbone Dental Putty. No membranes were used.



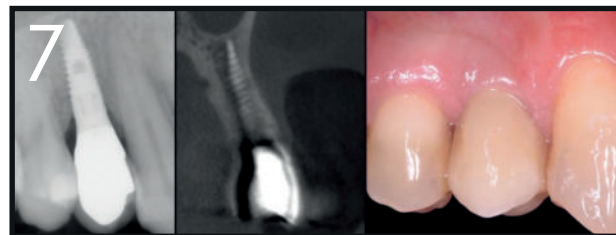
4 The flap was sutured tension-free around the anatomical abutment with 5-0 PTFE sutures. Oxygen-releasing oral gel (Bluem) to control the bacteria and enhance the soft tissue healing of the soft tissues during the healing period.



5 Three months post-op.



6 Screw-cemented design, zirconia crown, permanently cemented on a titanium abutment (Kostas Iliopoulos Lab, Athens, Greece).



7 Final result one year post-op.

Ordering Information

Product Name	Reference Code
Powerbone Synthetic Bone Graft Dental Putty 0,3 cc	PDP030
Powerbone Synthetic Bone Graft Dental Putty 0,5 cc	PDP050
Powerbone Synthetic Bone Graft Dental Putty 0,75 cc	PDP075
Powerbone Synthetic Bone Graft Dental Putty 1 cc	PDP100



To order or for more information, please contact
info@bonegraft.com.tr