



adbone WCP - porous synthetic ceramic Bone Graft BIOMATERIAL

adbone®VCP is fully synthetic bone graft biomaterial, composed of pure beta-tricalcium phosphate (β-TCP). adbone®VCP features a multidirectional interconnected porosity that guides the three-dimensional bone regeneration.

As bone healing occurs, adbone®VCP is resorbed and replaced by new bone.





adpaste®VET is a synthetic (Alloplast) ceramic, composed by a water base nano-hydroxyapatite paste. It is resorbed and replaced by natural bone as bone healing process occurs and the paste can be molded to follow the natural contours of bone.

adpaste®VET can, in many cases, spare the patient the trauma of autograft harvesting and provides



CASE 1

Chondrosarcoma tumor removal in nasofrontal sinus Retiro Veterinary Hospital – Spain Dr. Fernando Pérez

adbone®TCP

Patient: 8-year-old female canine.

Surgery: removal surgery through approaches to the frontonasal sinus by trephination, curettage and total removal of the tumor.

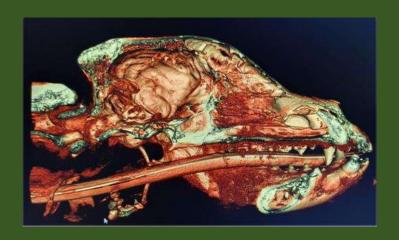
For sinus closure, PRGF + Biomaterial (100% Beta-tricalcium Phosphate) (B-TCP) is applied to induce rapid bone tissue regeneration and avoid possible iatrogenic emphysema.





Pre-operative orthopantomography









Pre-operative orthopantomography



Dr. Fernando Pérez www.medbone.eu

PRGF + abone ® VCP

Process



Place the biomaterial and the PRGF endoret., in the glass container.



Mix the biomateiral with the PRGF and introduce into the plasmaterm.



Clot formation with biomaterial.



Placement of the clot on the fracture giving the desired shape to the clot.











Post-operative orthopantomograpl











Post-operative orthopantomography



Dr. Fernando Pérez





Post-operative orthopantomography





CASE 2

Old fracture of the tibia - bone defect of 3 cm Dr. Alfredo Fachada

adbone®TCP

Old fracture of the tibia - bone defect of 3 cm

Patient: Dog with 5 years old and 4 kg. Geometry: 1 block of 8x8x30 mm

Patient preparation

The member is clamped just below the joint. The patient is placed supine or lateral, depending on the surgeon's preference.





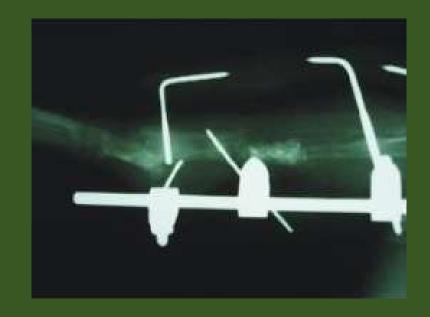


Dr. Alfredo Fachada

Old fracture of the tibia - bone defect of 3 cm

Surgical Procedure

In this case it was not necessary to impregnate the implant in the patient's blood or serum because the fracture zone was already sufficiently irrigated. The synthetic bone was placed in contact with the porous autologous bone. The implant was placed with a slight compression, and thereafter the wound was closed and impervious to air.



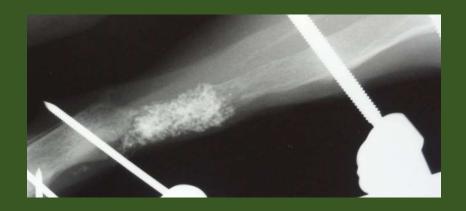
Pre-operative



Old fracture of the tibia - bone defect of 3 cm



30 days: Evident union between the tibia and synthetic bone with increased diameter of the tibia in the connection area with the synthetic bone



60 days: Uniformity of the diameter of the tibia. Osseointegration is already visible.



Dr. Alfredo Fachada www.medbone.eu



CASE 3

Fracture of the Femur Dr^a Sandra Rodrigues and Dr^a. Susana Barão Alves

adbone®TCP

Fracture of the Femur

Patient: Dog with 9 years, 16 Kg

Product: adbone®VCP

Reference: 3-4 mm, granules 2.5g

The femur fracture was stabilized using an internal pin. adboneVCP granules were then placed by the facture, filling up the bone voids.

We can observe the process of osteointegration and bio absorption over time. adboneVCP is highly radiopaque allowing an easy monitoring of the remodeling process



Kart



Fracture of the Femur







20 Days



30 Days

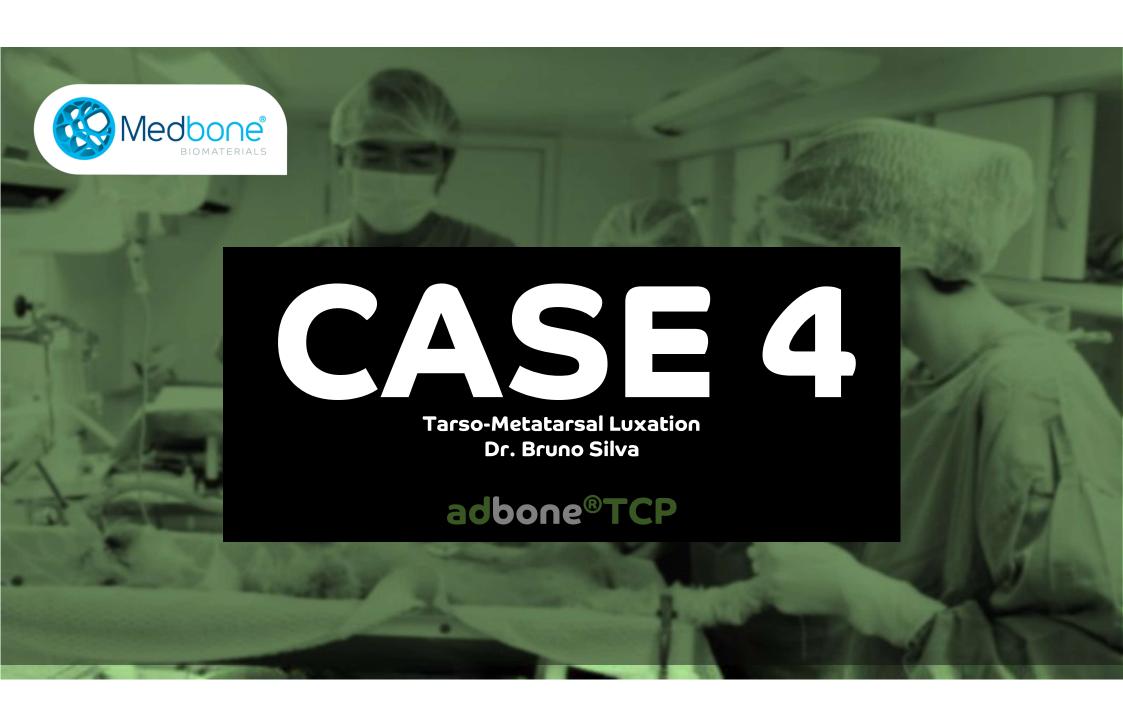


42 Days



The pin was removed after 42 days, allowing regain of total mobility.





Tarso-Metatarsal Luxation

Patient: Spanish Greyhound, 5 years old

Product: adbone®VCP

Reference: 1-2 mm, granules

The angular deformity was stabilized using an internal fixation plate.

adboneVCP granules were then placed by the facture, filling up the bone void.

Over time, we can observe that the process of osteointegration and bio absorption was almost perfect. After the last follow-up, the fixation plate was removed. adboneVCP is highly radiopaque allowing an easy monitoring of the remodeling process.



Surgery Day - Grafting



Tarso-Metatarsal Luxation



Follow-Up - 25 Days



Follow-Up - 40 Days





CASE 5

Angular Deformity:
Premature Closure of the Distal Plaque Radius
Dr. Bruno Silva

adbone®TCP

Angular Deformity: Premature Closure of the Distal Plaque Radius

Patient: Lindley, Dog with 25 Kg

Product: adbone®VCP

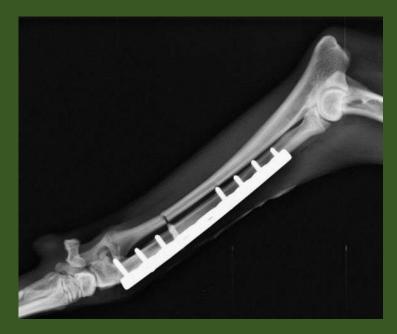
Reference: 1-2 mm, granules

The angular deformity was stabilized using an internal fixation plate.

adboneVCP granules were then placed by the facture, filling up the bone void.

We can observe the process of osteointegration and bio absorption over time.

adboneVCP is highly radiopaque allowing an easy monitoring of the remodeling process.



Surgery Day - Before Grafting



Angular Deformity: Premature Closure of the Distal Plaque Radius



Surgery Day – Grafting (Upper View)



Follow-up - 20 Days (Side View)



Follow-up – 42 Days (Side View)





CASE 6

Mandibulectomy and Tumor Removal Dr. João Requicha and Dr. Antonio Martinho

adbone®TCP

Patient: Jimba

Product: adbone®VCP

Reference: (VCP050110P; 0.5 – 1.0 mm; 1g x 5)

The remaining mandibula was stabilized using an internal fixation plate and adboneVCP granules.

Over time, the osteointegration and bio absorption processes of the surrounding granules are visible.

adboneVCP is highly radiopaque allowing an easy monitoring of the remodeling process.











X-Ray

Planning

Planning







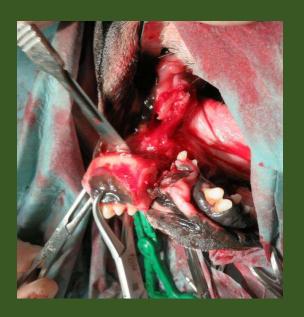


































42 days after surgery





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