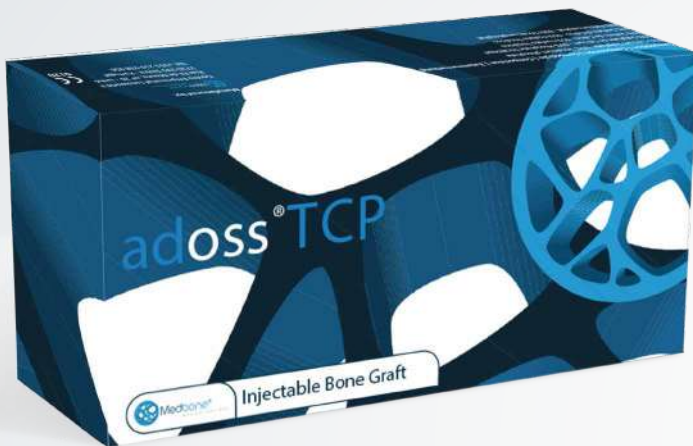


Medbone®  
MEDICAL DEVICES

# adoss® TCP

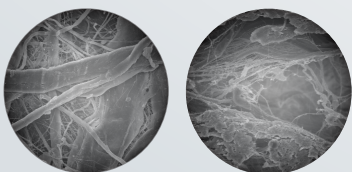
Injectable bone graft

CE 0120

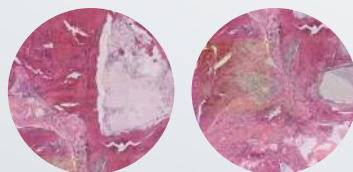


adoss® TCP is an injectable bone graft composed by 65% of  $\beta$ -Tricalcium Phosphate ( $\beta$ -TCP) and 35% of Calcium Sulfate (CS).

The biphasic composition allows a dual resorption in which the CS, acts as a barrier membrane that makes it ideal to soft tissue and other graft materials to ingress. On the second phase the  $\beta$ -TCP will act as a scaffold for further bone regeneration, being slowly resorbed by osteoclastic processes over a longer term, as part of the remodeling process in order to enable the formation of new mature bone.



SEM (scanning electron microscope) image of adoss® TCP



Histology at ten weeks

## Why choose adoss® TCP?

### Resorbable

Is replaced by new vital bone within 1-6 months.

### Biocompatible

Has no side effects, annules the risks of diseases and graft rejection.

### Adaptability

Can be used to fill up high variety of shapes and sizes of bone void.

### Osteoconductive

Due to the optimized porosity and interconnected pores, the granules provide an ideal osteoconductive matrix for the formation of new bone.

### Volume Stability

Due to optimizes packing density no structural.

# Indications



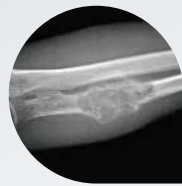
## Traumatology

- Upper and lower limbs;



## Spinal surgery

- Cage fillings;  
- Posterolateral fusions;



## Bone cavity filling

- Cysts;  
- Bone tumors;



## Extremities

- Hand and foot surgery;



## Craniofacial surgeries

- Cranioplasty;  
- Cranial recontouring;  
- Cranial flap augmentation;  
- Skull base defect repair;

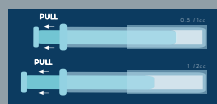


## Sports Surgeries

- Knee surgery;  
- Elbow surgery;  
- Shoulder surgery;

REFERENCES	PRESENTATION	QUANTITY
ADS050530S	Syringe	3units x 0,5cc
ADS050550S		5units x 0,5cc
ADS101030S		3units x 1,0cc
ADS101050S		5units x 1,0cc

- 1 Draw back the plunger to the 1cc mark (if using 0.5cc of adoss™TCP) or to the 2cc mark (if using 1cc of adoss™TCP). Do not remove the cover at this stage.
- 2 In order to loosen the powder and aid mixing, hold the syringe horizontally and tap the syringe until adoss™TCP spreads out.
- 3 Return the syringe to the vertical position with the plunger at the bottom. Remove the end cover.



- 4 Fill with sterile saline (0.9% Sodium Chloride for injection) to the top of the syringe.
- 5 Tap the syringe for 10 seconds until the fluid has visibly soaked into the powder.
- 6 Place a sterile gauze over the end of the syringe and depress the plunger to expel any excess fluid. Your adoss™TCP is ready to use.



### References:

M. D. Leventis, P. Fairbairn, et al. "Biological response to B-Tricalcium Phosphate/Calcium sulfate synthetic graft material: An experimental study", *Implant Dentistry*, Vol 23 (1), 37 - 43. P. Fairbairn, M. D. Leventis, et al. "Implant placement with simultaneous bone grafting using a novel alloplastic particulate graft material", *EAO, Rome, Italy, 25-27 september, 2014*. P. Fairbairn, M. D. Leventis, (2015, January) "The body wants to heal", *BDIZ EDI konkret*, 72 - 80. P. Fairbairn, M. D. Leventis, (2015, October) "Revised protocols", *the dentist*, 118 - 124. P. Fairbairn, M. D. Leventis, "Protocol for bone augmentation with simultaneous early implant placement: A retrospective multicenter clinical study", *International Journal of Dentistry*, Vol 15, 1-8.

### Awards:

- National Young Entrepreneur Award 2012
- GESVENTURE Internationalization Award 2011
- Entrepreneur of the Year Award 2011
- National Women Entrepreneur Award 2011
- BES Innovation Award 2009
- Entrepreneurship Merit Medal 2009
- Business Ideas Contest Award 2008
- College of Material Science Engineering Award 2006
- Federation of the European Materials Societies Award 2003

Manufactured by:



Centro Empresarial Lusoworld II  
Rua Pé de Mouro, nº26 - Linhó  
2710-335 Sintra, Portugal  
Tel: +351 211 941 737 | e-Fax: +351 211 946 681  
e-mail: sales@medbone.eu  
www.medbone.eu



Distributed by:

