

"Biomateriali utilizzati in rigenerazione ossea: risultati istologici"

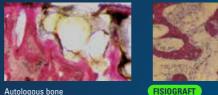
(Biomaterials used in bone regeneration: histological results) FISIOGRAFT was found to be the most resorbable and osteoconductive biomaterial 6-8 months after grafting.

	newly formed bone	medullary spaces	residue material
BIOCORAL	42%	40%	18%
BOVINE BONE	39%	34%	27%
BIOGLASS	40%	43%	17%
DFDBA	29%	37%	34%
FISIOGRAFT	43%	56%	1%
HYDROXYAPATITE	41%	30%	31%
AUTOLOGOUS BONE	42%	40%	18%
PEP-GEN P-15	40%	37%	23%
CALCIUM SULPHATE	48%	39%	13%

Piattelli A. Implantologia-Orale (Oral implant dentistry). 2003; 4: 77-80

Complete bone neogenesis

These histological results confirm that FISIOGRAFT is an **"ideal space maintainer"**. Its centripetal and progressive erosion, up to its total degradation, in fact, allows bone tissue to be regenerated without interfering with the physiological repair processes.



55



Bovine bone

The newly formed bone can be checked with an X-ray

Fisiograft is **NOT RADIOPAQUE** and enables bone neoformation to be checked with an X-ray.









Applications

FISIOGRAFT

is the most

biomaterial

resorbable and osteoconductive

Maxillary sinus elevation FISIOGRAFT GEL FISIOGRAFT POWDER + GEL FISIOGRAFT SPONGE



Maintaining volume FISIOGRAFT SPONGE FISIOGRAFT POWDER FISIOGRAFT POWDER + GEL



Split crest FISIOGRAFT POWDER FISIOGRAFT POWDER + GEL FISIOGRAFT SPONGE



Post-extraction FISIOGRAFT SPONGE FISIOGRAFT POWDER + GEL

The **ADVANTAGES** of **FISIOGRAFT**

GEL

- Fully reabsorbed within 4 6 MONTHS
- Fully replaced by NEWLY FORMED MINERALISED CELLULAR BONE
- NO ODDS RATIO: BSE HIV HBV SARS
- NON-RADIOPAQUE
- HIGH BIOCOMPATIBILITY
- EASILY ADHERES to irregular cavity walls

POWDER

- Fully reabsorbed within 4 6 MONTHS
 - The molecular weight allows for rapid biological degradation
- FULLY REPLACED by newly formed mineralised cellular bone
- NO ODDS RATIO: BSE HIV HBV SARS
- V NON-RADIOPAQUE
- ✓ HIGH BIOCOMPATIBILITY
- It FULLY OCCUPIES irregular cavities

SPONGE

- Fully reabsorbed within 4 6 MONTHS Its molecular weight allows for rapid biological degradation
 - FULLY REPLACED by newly formed mineralised cellular bone
- NO ODDS RATIO: BSE HIV HBV SARS
- **NON-RADIOPAQUE**

HIGH BIOCOMPATIBILITY

- When hydrated with FISIOGRAFT GEL, saline solution or blood, the sponge can be put in the receiving site without compacting it
- If inserted into post-extraction alveoli, Fisiograft Sponge REDUCES ALVEOLAR RIDGE RESORPTION

FISIOGRAFT: MORE THAN 100 PUBLICATIONS

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FISIOGRAFT GEL - POWDER - SPONGE

A **synthetic biomaterial** used in dental and maxillofacial surgery to **fill bone cavities**, whether natural or pathological, based on hydroxyapatite and polyglycolic-polylactic acid (PLGA).

PLGA polylactic acid and polyglycolic acid Completely resorbable in 4-6 months



FISIOGRAFT GEL



Completely resorbable in 4-6 MONTHS

Physical form: Composition: PLGA 20 Package: 1 syringe 50

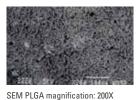
gel scaffold

- Composition: PLGA 20% (100 mg) + PEG 80% (400 mg)
- Package: 1 syringe 500 mg (Product code: PFOF0036)
- Package: 5 syringes 500 mg (Product code: PF0F0035)
- Medical Device CLASS III CE0426
- Certified ISO9001, ISO13485
- Needle-free syringe with sealed cap, **READY TO USE**



PLGA Gel

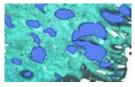
Trabecular porous structure accessible to the corpuscular part of the blood and GFs.



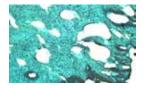


SEM PLGA magnification: 500X

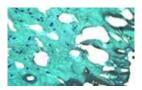
After six months, the histological examination of a core taken from a postextraction site implanted with Fisiograft shows that: '*The material is fully resorbed and replaced by well-mineralised trabecular bone tissue containing bone marrow and has all the features of a normal alveolar bone.*'







Newly formed bone with osteocytes



Newly formed bone with blood vessels

FISIOGRAFT POWDER



Completely resorbable in 4-6 MONTHS

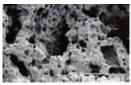
Physical form: powder

- Composition: PLGA 29% (145 mg) + DEXTRAN 71% (355 mg)
- Package: 1 bottle, 500 g 2 ml 2 cc ca. (Product code: PF0F0026)
- Package: 5 bottle, 500 g 2 ml 2 cc ca. (Product code: PFOF0025)
- Medical Device CLASS III CE0426
- Certified ISO9001, ISO13485





- Creates a larger number of access channels within it
- Is more easily traversed by blood
- Instant formation of a stable clot both inside and outside the material

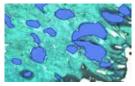




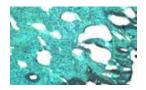
Fisiograft Powder Magnification: 200X

Fisiograft Powder Magnification: 500X

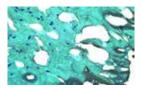
After six months, the histological examination of a core taken from a postextraction site implanted with Fisiograft shows that: 'The material is fully resorbed and replaced by well-mineralised trabecular bone tissue containing bone marrow and has all the features of a normal alveolar bone.'







Newly formed bone with osteocytes



Newly formed bone with blood vessels

FISIOGRAFT SPONGE



Completely resorbable in 4-6 MONTHS

Physical form: block

- Composition: PLGA 29% (156 mg) + PEG 71% (64 mg)
- Ampoule
- Package: 1 bottle 0.86 ml cc ca. (Code PFOF0016)
- Medical Device CLASS III CE0426
- Certified ISO9001, ISO13485

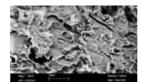


PLGA lyophilised sponge

- Creates a larger number of access channels within it
- Is more easily traversed by blood
- Instant formation of a stable clot both inside and outside the material

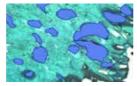


PLGA

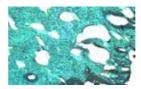


SEM Fisiograft Sponge magnification

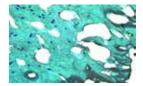
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