

# R.T.R. syringe

## R.T.R. (Resorbable Tissue Replacement)

### Sterile resorbable bone substitute β tricalcium phosphate

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#### Description

R.T.R. calcium phosphates are manufactured using the latest technologies, which guarantees an extremely high purity level of the products.

R.T.R. syringe is made from β tricalcium phosphate granules of synthetic origin.

#### Properties

R.T.R. is available as granules with a size ranging from 500 μm to 1 mm.

The size of macropores varies from 100 μm to 400 μm and micropores are less than 10 μm in diameter. These specific structural properties make it possible for newly formed bone to colonize macropores.

R.T.R. is gradually resorbable.

#### Indications

R.T.R. syringe is designed for the replacement of bone losses, after being impregnated with the patient's blood or with physiological solution, for craniofacial indications in the dental practice such as filling of tooth sockets.

#### Contraindications

- Acute osteomyelitis or necrosis of the recipient site.
- Bone degeneration.
- Known active infection.
- Known allergy to any constituent of the bone substitute.

#### Warnings and precautions for use

*Several criteria are of crucial importance for the operation with R.T.R. to be successful:*

- appropriate selection of the patient who will undergo the operation,
- rigorous asepsis.

Underlying oral pathologies such as infections should be treated and ruled out before applying R.T.R..

Avoid saliva contamination.

The bone site which will be in contact with R.T.R. should be debrided and, if possible, well vascularized, so as to create a high quality recipient bed.

Single-use only. Do not resterilize or reuse.

Check the packaging integrity before use.

**Do not use if packaging has been damaged or opened before first use.**

**Do not overfill defects.**

**Do not leave defect open.**

**Do not compromise the blood supply to the defect area.**

#### Instructions for use

R.T.R. syringe can be used following several techniques.

- The dental professional may inject the granules directly into the bone cavity, using the pre-filled syringe, before closing of the soft tissues.

To mix the syringe contents, take some of the patient's blood or physiological solution through the filter tip of the syringe by pulling the plunger up until all the granules are soaked. The excess liquid can be easily released by pushing the plunger down. Remove the tip and inject the mixture into the surgical site by pushing the plunger down.

- R.T.R. syringe can also be mixed with the patient's blood or with physiological solution in a sterile Dappen dish before being placed onto the operative site using a dental spatula.

***In both cases, the dental professional should close the operative site by bringing together the wound edges (coaptation) with suture stitches.***

#### Storage

Keep only in the original container.

#### Expiry date

Do not use after the expiry date mentioned on the outer package.

#### Presentations

0.8 cc curved syringe in single-unit package sterilized by gamma radiation (minimal dose: 25 kGy).

***For professional use only in the practice of dentistry.***

*Caution: Federal law restricts this device to sale by or on order of a dentist.*

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Distributor: SEPTODONT, Inc.  
245 Quigley Boulevard – Suite C  
NEW CASTLE, Delaware 19720 U.S.A.  
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