Resorbable Tissue Replacement


R.T.R.
Absorbable Bone Regeneration and Membrane
**R.T.R. Syringe Clinical Applications**

R.T.R. maintains ridge volume and prevents bone resorption immediately following a tooth extraction, optimizing both bridge adaptation and success of future implant placement.

**R.T.R. Membrane**

Indication: R.T.R. Membrane is an absorbable, implantable material that is indicated for guided tissue regeneration procedure in periodontal defects to enhance regeneration of the periodontal apparatus.

**FEATURES**
- Synthetic ß TCP granules
- Micro and macroporous
- High level of purity + sterilization
- Curved syringe delivery
- Double sterile packaging

**BENEFITS**
- Resorbable with new bone formation
- Maximizes alloplast colonization by osteogenic cells for bone augmentation
- Biocompatibility and safety
- Aspirates marrow blood from socket and delivers material mixture without external mixing
- Meets the asepsis standards required in implantology

**PROPERTIES:**
R.T.R. features specific structural properties that foster osteogenic cell colonization.

**Composition:** Synthetic ß tricalcium phosphate granules (ß TCP)
**Particle Size:** 500µm and 1mm
**Macropores:** From 100µm to 400µm
**Micropores:** < 10µm
**Resorption:** 3 to 6 mo. (depending on the patient’s physiology)

**INDICATIONS:**
R.T.R. is indicated in most clinical cases requiring oral bone replacement:
- Post extraction socket grafting
- Alveolar augmentation
- Periapical periodontal defects

**FEATURES**
- 0.8cc of Granules
- Syringe tip allows patient’s blood to be drawn into the syringe
- Extraction site injected with R.T.R.
- Bone regeneration with R.T.R.
- Successful resorption with new bone growth

**BARRIER**
- Prevent epithelial cells migration into the grafting site
- Contains bone graft material within a periodontal implant site
- Provide mechanical stability

**PREVENT MIGRATION**
- Maintain stable grafted structure

**ENHANCE REGENERATION**
- Absorbable within 4-8 weeks
- Indicated for guided tissue regeneration procedures
- Enhance regeneration of the periodontal apparatus
- Elimination of second surgical procedure to remove a nonabsorbable membrane

**EXCELLENT HANDLING PROPERTIES**
- Can be cut to size
- Can be shaped in a wet or dry state
- No tearing or fragmenting

**EXHIBITS**
- R.T.R. Syringe
- R.T.R. Membrane
**R.T.R. Syringe**

**PROPERTIES:**
R.T.R. features specific structural properties that foster osteogenic cell colonization.

- **Composition:** Synthetic β tricalcium phosphate granules (β TCP)
- **Particle Size:** 500µm and 1mm
- **Macropores:** From 100µm to 400µm
- **Micropores:** < 10µm
- **Resorption:** 3 to 6 mo. (depending on the patient’s physiology)

**Syringe tip allows patient’s blood to be drawn into the syringe**

**INDICATIONS:**
R.T.R. is indicated in most clinical cases requiring oral bone replacement:
- Post extraction socket grafting
- Alveolar augmentation
- Periapical periodontal defects

**0.8cc of Granules**

**R.T.R. Syringe Clinical Applications**

R.T.R. maintains ridge volume and prevents bone resorption immediately following a tooth extraction, optimizing both bridge adaptation and success of future implant placement.

- Extraction of 4 mandibular incisors
- R.T.R. granules soak in saline solution
- Surgical site sutured with “O” suture (recommended with R.T.R.)

**This classic development of a vestibular space following implant insertion is easily treatable.**

R.T.R. prevents soft tissue introversion and ensures good osteo-integration.

**Presence of vestibular space**

**Application of R.T.R.**

**Surgical site with sutures placed**

**Successful integration of implant**

**R.T.R. Membrane**

**Indication:** R.T.R. Membrane is an absorbable, implantable material that is indicated for guided tissue regeneration procedure in periodontal defects to enhance regeneration of the periodontal apparatus.

**Features**

- Synthetic β TCP granules
- Micro and macroporous
- High level of purity + sterilization
- Curved syringe delivery
- Double sterile packaging

**Benefits**

- Resorbable with new bone formation
- Maximizes alloplast colonization by osteogenic cells for bone augmentation
- Biocompatibility and safety
- Aspirates marrow blood from socket and delivers material mixture without external mixing
- Meets the asepsis standards required in implantology

**Features**

- Protect from fast growing tissues
- Maintain stable grafted structure
- Enhance regeneration

**Benefits**

- Protect periodontal ligament development from fast growing tissues
- Support wound stabilization & healing
- Allow essential nutrients to pass through
- Prevent epithelial cells migration into the grafting site
- Contains bone graft material within a periodontal implant site
- Provide mechanical stability
- Absorbable within 4-8 weeks
- Indicated for guided tissue regeneration procedures
- Enhance regeneration of the periodontal apparatus
- Elimination of second surgical procedure to remove a nonabsorbable membrane

**Provided with a sterile template**

- To help trim the membrane to the desired size & shape

**Excellent handling properties**

- Can be cut to size
- Can be shaped in a wet or dry state
- No tearing or fragmenting

**R.T.R. granule magnification of macroporous and microporous structure**

**x1,000 Magnification**

**x135 Magnification**
R.T.R. Membrane

Origin: Type I bovine Achilles tendon collagen

Features:
- Non friable matrix of condensed laminated sheets in cross-section and a textured surface
- Paper white in the dry state
- Translucent and non-slippery when wet
- Biocompatible & well tolerated* with no adverse healing effects

Packaging: 1 membrane per box

Item #01-S0510 Small
15x20 mm

Item #01-S0520 Medium
20x30 mm

Origin: Sterile resorbable bone substitute - β tricalcium phosphate

Features:
- 0.8cc of β tricalcium phosphate granules (diameter 0.5 to 1mm) in an individually packed sterile syringe

Packaging: 1 syringe per box

Item #01-S0500

R.T.R. Case Studies

Our Case Studies publication showcases useful clinical applications and more.

Plus, visit www.septodontusa.com for more information on R.T.R. and our many other innovative products!