Setting the Tone.
**Masterpieces**

Tried and tested RESORBA® quality – enhanced and refined to meet the special demands of oral and maxillofacial surgery and implantology.

**Prophylaxis**

- **PARASORB® Dentalkegel (dental cones)**  
  Collagen cones to reduce atrophy of the alveolar ridge (socket preservation)

- **GENTA–COLL resorb® Dentalkegel MKG**  
  Collagen cones to reduce atrophy of the alveolar ridge (socket preservation) with antibiotic protection for high-risk patients

**Regeneration**

- **RESODONT®**  
  Absorbable collagen membrane for guided tissue regeneration (GTR, GBR)

- **PARASORB®**  
  Sterile collagen cavity and wound dressing for use in oral and maxillofacial surgery, local haemostatic agent

- **PARASORB® HD**  
  Sterile collagen cavity and wound dressing for use in maxillary surgery for osseous defects, local haemostatic agent

- **GENTA–COLL resorb® MKG**  
  Sterile collagen cavity and wound dressing for use in maxillary surgery for osseous defects, with antibiotic protection, local haemostatic agent

**Repair**

- **RESORBA® Surgical suture material**  
  Absorbable and non-absorbable suture material for dental surgery
**PERFECT HARMONY**

**Collagens and suture materials for implantology and dental surgery**

Bone preservation and bone reconstruction are established elements of contemporary implantological care. RESORBA® is there to assist, with high-end collagens specially designed for implantology - for the best possible functional and aesthetic results.

**The full score**

The right recommendation by RESORBA® for any indication.

<table>
<thead>
<tr>
<th>Indication</th>
<th>Ref.</th>
<th>Item</th>
<th>PA</th>
<th>Rasorb®</th>
<th>Dental kegal</th>
<th>MK 10</th>
<th>Rasorb® resorb®</th>
<th>Dental kegal</th>
<th>MKG</th>
<th>Rasorb® resorb®</th>
<th>Dental kegal</th>
<th>MKG</th>
<th>Rasorb® resorb®</th>
<th>Dental kegal</th>
<th>MKG</th>
<th>Rasorb® resorb®</th>
<th>Dental kegal</th>
<th>MKG</th>
<th>Rasorb® resorb®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alveolar care</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Socket preservation</td>
<td></td>
<td></td>
<td></td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Augmentation</td>
<td></td>
<td></td>
<td></td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Direct osseous</td>
<td></td>
<td></td>
<td></td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Graft/chamber</td>
<td></td>
<td></td>
<td></td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hemostasis</td>
<td></td>
<td></td>
<td></td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intersurgical care</td>
<td></td>
<td></td>
<td></td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Papilla reconstruction</td>
<td></td>
<td></td>
<td></td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Periodontology</td>
<td></td>
<td></td>
<td></td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mucosa</td>
<td></td>
<td></td>
<td></td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maxillary graft</td>
<td></td>
<td></td>
<td></td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sinus floor elevation</td>
<td></td>
<td></td>
<td></td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wound tamponade</td>
<td></td>
<td></td>
<td></td>
<td>x</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apicectomy</td>
<td></td>
<td></td>
<td></td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cystectomy</td>
<td></td>
<td></td>
<td></td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Bone preservation and bone reconstruction are established elements of contemporary implantological care. RESORBA® is there to assist, with high-end collagens specially designed for implantology - for the best possible functional and aesthetic results.

Make the same high demands on your suture materials as you do on yourself! RESORBA® offers you an extensive range of top-quality suture products.
CallinG THE TUNE

PARASORB® Dentalkegel (dental cones)
GENTA-COLL resorb® Dentalkegel MKG

The first choice
... for the care of extraction sockets. Particularly well suited for socket preservation in the sensitive anterior region.

The 4-in-1 solution by RESORBA®

1. Safe and rapid haemostasis
   - No risk of secondary bleeding
   - Stabilisation of the blood clot
   - Optionally comes with antibiotic protection for high-risk patients (e.g. smokers, diabetics, immune-suppressed patients)

2. Reduction of alveolar ridge atrophy
   - Stabilisation of the socket and maintenance of the sensitive vestibular lamella
   - Volume stability of the alveolar process
   - Improvement of the aesthetic and functional long-term results

3. Reliable bone regeneration
   - Already after a relatively short time, a stable bony implant site is formed
   - More easily predictable long-term success

4. High user and patient satisfaction
   - Simple and safe to use
   - Subsequent treatment steps are simplified
   - Higher patient comfort
   - Excellent value for money

Tooth extraction – the problem

After an extraction, the alveolar socket does not always heal optimally without special care. This has consequences:

- The bone required for a stable and secure fit of an implant is only inadequately reformed.
- The alveolar ridge already starts to collapse at the extraction site and disappear after only a short time. A reconstruction of the alveolar ridge is necessary if an implant is to be positioned at a later time.
- Treatments are costly and time-consuming for the patients, as well as being painful and not completely without risk.

Repair Regeneration Prophylaxis

Literature on request
"The membrane is used in dental, oral and maxillofacial surgery principally for covering defects in the field of guided bone regeneration (GBR) and to secure augmentation material. Uses include local augmentation prior to or during the insertion of endosseous implants, the covering of the facial maxillary sinus wall and small perforations of the sinus mucosa in sinus lift operations and of alveolar cavities after extractions...

Wound healing proceeded without infections or foreign body reactions; to date, the barrier function has always been adequate for undisturbed bony consolidation. If the membrane becomes exposed by dehiscences, immediate removal is not necessary because careful rinsing with disinfectants can achieve a secondary epithelialisation of the membrane without disturbing the underlying augmentation."

Prof. Dr. Dr. J. Kleinheinz, Hospital and OPD for Oral, Maxillary and Facial Surgery University Hospital Münster.

"The solution by RESORBA®

- Particularly easy to model
- Structurally stable, particularly when moist
- Usable on both sides thanks to special microstructure
- No fixing required
- Guide rail effect
- Supports the regeneration of blood vessels (angiococonductivity) and therefore the rapid integration into the surrounding tissue
- Promotes bone growth (osteococonductivity)
- Promotes the healing of wounds
- Secure haemostasis
- pH-stability and therefore reduced risk of inflammatory reactions

RESODONT® – tried and tested a thousand times over in everyday dental practice!

"The membrane is used in dental, oral and maxillofacial surgery principally for covering defects in the field of guided bone regeneration (GBR) and to secure augmentation material. Uses include local augmentation prior to or during the insertion of endosseous implants, the covering of the facial maxillary sinus wall and small perforations of the sinus mucosa in sinus lift operations and of alveolar cavities after extractions...

... Wound healing proceeded without infections or foreign body reactions; to date, the barrier function has always been adequate for undisturbed bony consolidation. If the membrane becomes exposed by dehiscences, immediate removal is not necessary because careful rinsing with disinfectants can achieve a secondary epithelialisation of the membrane without disturbing the underlying augmentation."

Prof. Dr. Dr. J. Kleinheinz, Hospital and OPD for Oral, Maxillary and Facial Surgery University Hospital Münster.

The special barrier membrane

- The starting material is collagen of equine origin (originating from the horse)
- The starting materials for the biomatrices identical to RESORBA® products for dura regeneration
- Naturally cross-linked, with no chemical additives
- Fully absorbable
- Manufacturing processes following the strictest quality standards, derived from the manufacture of membranes for coverage of defects of the dura mater
- Maximum product safety and excellent biocompatibility

Maxillary augmentation – the problem

After maxillary augmentation the following should be considered:

- Implants, lateral maxillary augmentation material or extraction alveoles need to be protected from the in-growth of soft tissue
- Augmentation material that is introduced needs to be secured and covered during guided tissue regeneration (GTR, GBR)
- Any accesses created as part of sinus lift operations need to be covered over again and the Schneiderian membrane protected from the sharp-edged particles of the augmentation material

Maxillary augmentation – the problem

After maxillary augmentation the following should be considered:

- Implants, lateral maxillary augmentation material or extraction alveoles need to be protected from the in-growth of soft tissue
- Augmentation material that is introduced needs to be secured and covered during guided tissue regeneration (GTR, GBR)
- Any accesses created as part of sinus lift operations need to be covered over again and the Schneiderian membrane protected from the sharp-edged particles of the augmentation material
**THE TRIAD**

**PARASORB®**
**PARASORB® HD**
**GENTA-COLL resorb® MKG**

---

**Orthodontic interventions – the problem**

After an orthodontic procedure (e.g. cystectomy), a defect remains at the site of the intervention. This has consequences:

- Usually heavy bleeding
- Defect site fills with tissue fluid (blood)
- In-growth of soft tissue into the defect
- Bones are only inadequately reformed
- Infection risk
- Functional and aesthetic impairments

---

**The 2-in-1 solution by RESORBA®**

For an optimal treatment of wounds and defect sites immediately after operation:

1. **Safe and rapid haemostasis**
   - No risk of secondary bleeding
   - Stabilisation of the blood clot (acts as a placeholder)
   - Optionally with antibiotic protection for risk patients (e.g. smokers, diabetics, immune-suppressed patients) and for potentially infectious environments (apicectomy, cysts)

2. **Bone regeneration**
   - Guide rail effect
     - Promotion of new vessel formation – angioconductivity
     - Promotion of bone growth – osteoconductivity
   - Placeholding function
     [especially PARASORB® HD, GENTA-COLL resorb® MKG]
     - No in-growth of soft tissue
     - Undisrupted bone regeneration

---

**Haemostasis alone is not enough – local haemostasis with the decisive advantage**

Compared to conventional haemostatics, such as oxidised cellulose or gelatine, PARASORB® / PARASORB® HD / GENTA-COLL resorb® MKG offers a whole range of additional advantages:

- Structural stability
- Total resorption and therefore no need for re-entry surgery
- Potential docking site for proteins (growth factors etc.)
- Supports the regeneration of blood vessels (angioconductivity) and therefore the rapid integration into the surrounding tissue
- Guide rail effect for rapid bone regeneration (osteoconductivity)
- Promotes wound healing
- pH-stability and therefore reduced risk of inflammatory reactions
- Optional with antibiotic protection for high-risk patients (e.g. diabetes, immunosuppression, smokers): only GENTA-COLL resorb® MKG

---

**Bleeding Time From Standardized Spleen Wound:**

Collagen fleeces or powders have proved to be clearly more effective than gelatin sponges or cellulose. They are rapidly and completely absorbed by the body, with native Collagen additionally promoting granulation and epithelialisation.

---

**Extent of Aggregation:**

Five minutes after contact with various wound dressings (platelet aggregation was determined from light transmittance):

- Collagen powder
- Collagen fleece
- Gelatin sponge
- Oxidized cellulose
- Untreated control
- Various cellulose products
- Various gelatin products
- Various collagen fleece products

<table>
<thead>
<tr>
<th>Bleeding Time</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>min.</td>
<td>0</td>
<td>0</td>
<td>10</td>
<td>15</td>
<td>20</td>
</tr>
<tr>
<td>%</td>
<td>19</td>
<td>18</td>
<td>18</td>
<td>90</td>
<td>90</td>
</tr>
</tbody>
</table>

---

**Literature on request**
THE RIGHT CHORDS

RESORBA® Suture material for dental surgery

RESORBA® offers a comprehensive range of suture products for dental surgery, which are of the highest possible quality. Your RESORBA® medical device adviser will be happy to help!

Ask us!

The manufacture of customer-specific needle-suture combinations which always make particular demands on a company’s efficiency is one of our specialities. We would be happy to make needle-suture combinations for you too – from a certain minimum purchase quantity – according to your own personal concept.

Absorbable material

- For tissue adaptations where mechanical support is time-restricted
- Optimum tolerance in the body thanks to the chemical properties and refinements
- Problem-free disintegration and elimination
- No encapsulations and tissue reactions during the disintegration process

Non-absorbable material

- Long-term durability with simultaneous high biocompatibility
- Optimum tolerance in the body thanks to the careful selection of starting materials and refining processes
- Problem-free removal

Needles for dental surgery

RESORBA® Needles are optimally suited to any indication, surgical technique and tissue situation.

- Atraumatic thanks to seamless transition between needle and thread
- Special surface treatment and precision ground for minimum resistance when entering and gliding through the tissue
- Special types of needle available, also PREMIUM ground, of particularly high quality
How supplied and Pack Sizes

<table>
<thead>
<tr>
<th>REF</th>
<th>Dimensions</th>
<th>Units</th>
<th>Order Size/Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MK 10</td>
<td>Ø 1,2 cm, Height 1,6 cm</td>
<td>10 Cones</td>
<td>2582733</td>
</tr>
<tr>
<td>DK-1010</td>
<td>Ø 1,2 cm, Height 1,6 cm</td>
<td>10 Cones</td>
<td>5956262</td>
</tr>
<tr>
<td>RD 3503</td>
<td>3,5 x 3 cm (approx.)</td>
<td>1 Membrane</td>
<td></td>
</tr>
<tr>
<td>RD 0703</td>
<td>7 x 3 cm (approx.)</td>
<td>1 Membrane</td>
<td></td>
</tr>
<tr>
<td>DK-1836</td>
<td>1,8 x 3,6 cm</td>
<td>12 Sponges</td>
<td>5956298</td>
</tr>
<tr>
<td>DK-9001</td>
<td>7 x 3 cm</td>
<td>5 Sponges</td>
<td>5956306</td>
</tr>
<tr>
<td>DK-9011</td>
<td>9 x 7 cm</td>
<td>5 Sponges</td>
<td>5956312</td>
</tr>
<tr>
<td>DK-8001</td>
<td>7 x 3 cm</td>
<td>5 Sponges</td>
<td>5956269</td>
</tr>
<tr>
<td>DK-8011</td>
<td>9 x 7 cm</td>
<td>5 Sponges</td>
<td>5956281</td>
</tr>
<tr>
<td>MK 25</td>
<td>2,5 x 2,5 cm</td>
<td>5 Sponges</td>
<td>2582727</td>
</tr>
</tbody>
</table>

**GEnTa-Coll resorb® Dentalkegel MKG**
Collagen cones to reduce atrophy of the alveolar ridge (socket preservation), for use in maxillary surgery, with antibiotic protection, local haemostatic

**PARASORB® Dentalkegel**
Collagen cone to reduce atrophy of the alveolar ridge (socket preservation) for use in maxillary surgery, local haemostatic

**RESODONT®**
Absorbable collagen membrane for guided tissue regeneration (GBR, GTR)

**RESoDonT®**
Absorbable collagen membrane for guided tissue regeneration (GBR, GTR)

**PARASORB® HD**
Sterile collagen cavity and wound dressing made of high-concentrate collagen for use in maxillary surgery, local haemostatic

**Suture material**

Fax orders to:

Customer address

- First name/Second name
- Practice/Hospital
- Street
- Postcode/Town
- Telephone/Telefax
- e-mail
- Date/Signature

Resorba Wundversorgung GmbH + Co. KG
Am Flachmoor 16
D-90475 Nürnberg
Fon 091 28 - 9 11 5 - 0
Fax 091 28 - 9 11 5 - 91
infomail@resorba.com
www.resorba.com