Consil synthetic bone graft material is a bioactive ceramic containing salts of calcium, sodium, silica, and phosphorus. It undergoes a time dependent surface reaction when implanted at the dental or orthopedic repair site. The surface reaction results in the formation of a calcium phosphate layer that is substantially equivalent to the hydroxyapatite layer found in bone mineral. Osteoblasts infiltrate and proliferate on the surface of the material, and bone growth occurs uniformly throughout the defect.

Consil material accelerates the healing process. Research has shown that Consil’s mechanisms of action include enhancing cell signaling and cell division necessary for facilitating bone regeneration and repair of bony defects. The Consil material is gradually replaced by new bone allowing complete repair of the bony defect.

Advantages of Consil Dental, Orthopedic and Putty products:
- Restore bone, contributing to patient comfort and well being
- Conform readily to the defect site
- Composed of materials naturally present in the body
- Begin to repair bony defects through new bone production within 4 weeks though tissue should be flushed well to remove debris
- Minimize bleeding at the site and will not migrate due to hemostatic properties
- Multiple year shelf life

REFERENCES:

For more information, or to order, call Nutramax Laboratories Veterinary Sciences, Inc. at (888) 886-6442.

Caution: Federal law restricts this device to sale by, or on the order of, a licensed veterinarian.
What are the benefits of Consil Dental?

- Promotes new bone and periodontal ligament growth; forms a barrier to prevent epithelial cells from growing down into the repair site
- Maintains the height and width of the alveolar ridge
- Restores bone, contributing to patient comfort
- Conforms readily to the defect site
- Reduces cost even in large or multiple extraction site defects since most procedures use less than one 2.5 cc cup

How to use Consil Dental:

Consil Dental can be applied to the bony defect by creating a granular paste or by pouring the dry particulate directly into a blood filled site. To create the paste, mix it preferably with the patient’s blood, or with sterile saline. Then, gently pack the paste or pour into the site. Consil Dental should fill the defect and be in contact with viable bone as much as possible.

APPLICATION RESULTS:

<table>
<thead>
<tr>
<th>Indication</th>
<th>Particulate</th>
<th>Putty</th>
<th>Empty</th>
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<tbody>
<tr>
<td>% New Bone</td>
<td>26.98</td>
<td>42.00</td>
<td>1.20</td>
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<tr>
<td></td>
<td>31.08</td>
<td>25.55</td>
<td>NA</td>
</tr>
</tbody>
</table>
| % Residual Graft | 51.38       | 21.12 | NA    | 5.18

Orthopedic applications: Long bone multiple or comminuted fracture repair
- Osseous cavities as a result of cysts, tumors or screw removal
- Traumatic defects or intraosseous flaws related to pulpal floor or lateral root perforations

Where to use Consil Dental:

- Tooth extraction sites
- Bone loss due to periodontal disease
- Infrabony defects caused by periodontal disease or bone cysts
- Fractures of the mandible when bone graft material is needed

How to use Consil Dental:

Consil Dental can be applied to the bony defect by creating a granular paste or by pouring the dry particulate directly into a blood filled site. To create the paste, mix it preferably with the patient’s blood, or with sterile saline. Then, gently pack the paste or pour into the site. Consil Dental should fill the defect and be in contact with viable bone as much as possible.

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Orthopedic applications: Long bone multiple or comminuted fracture repair
- Osseous cavities as a result of cysts, tumors or screw removal
- Traumatic defects or intraosseous flaws related to pulpal floor or lateral root perforations

Where to use Consil Orthopedic:

- Synthetic material and therefore no risk of disease transmission
- Bacteriostatic properties
- Improved the rate of osseous growth
- Synthetic material and therefore no risk of disease transmission

How to use Consil Orthopedic:

Prepare material: Mix Consil Orthopedic preferably with patient’s blood or with sterile saline to a granular paste consistency just before application. Add approximately 2.8 mL of fluid to one 7 cc cup of Consil Orthopedic and mix to moisten uniformly, forming a paste. Apply at repair site: Place the paste in the site gently (do not compress). Consil Orthopedic should fill the defect and be in contact with viable bone as much as possible. Do not bleed the bone/consil mixture at the site as the blood contains the cells and growth factors necessary to assist in bone formation.

What are the benefits of Consil Orthopedic?

- Ease of use: The only additional steps necessary to your surgical routine are to mix with patient’s blood or sterile saline and apply Consil Orthopedic to the repair site
- No harvesting of autogenous graft from second site required:
  - No pain for patient at a second surgical site
  - Less time under anesthesia for patient; therefore, less potential for anesthetic complications
  - Less surgical preparation time
  - Less surgical time
  - In cases requiring the use of an autogenous bone graft, e.g., with large volume (>14 cc) defects, the addition of Consil Orthopedic will reduce the amount of autogenous graft needed
- Material is hemostatic
  - With bleeding minimized at the site, material does not migrate from the surgical site
  - Improves the rate of osseous growth
- Bacteriostatic properties
- Synthetic material and therefore no risk of disease transmission