Introducing

Acute | Chronic | Mohs surgery | Burns | Trauma | Complex Surgical | Venous leg ulcers | Exposed tendon, muscle, bone | Diabetic ulcers | Pressure ulcers | Arterial ulcers

Bringing the progenerative power of the amnion to tissue restoration

INTRODUCING

BIOVANCE®

Human Amniotic Membrane Allograft

Alliqua

BIOMEDICAL
Introducing the regenerative power of the amniotic membrane supports the body’s natural ability to restore tissue to a pre-wound state.

BIOVANCE is an amniotic membrane allograft derived from a natural source — the placenta of a healthy, full-term human pregnancy.

- Reduces inflammation
- Supports tissue growth
- Minimizes pain upon application
- Maintains a moist wound environment

BIOVANCE contains natural substances found in amniotic membrane tissue that support the body’s ability to heal.

**Ease of application and wound visualization**
- Translucent grid pattern is evident on the wound until hydration to allow view of the wound’s progress
- BIOVANCE is flexible to conform to irregular surfaces
- BIOVANCE can be applied with either side facing the wound
- BIOVANCE can be sutured, taped, stapled, or glued, as determined by the clinician
- BIOVANCE should be applied to a clean wound and covered with an appropriate secondary, non-adherent dressing

**Off-the-shelf availability for a broad range of wounds**
- 5-year shelf life eliminates need for pre-ordering
- Room temperature storage — no refrigeration necessary

**Broad range of wound indications, including, but not limited to:**
- Acute
- Chronic
- Mohs surgery
- Burns
- Trauma
- Exposed tendon, muscle, bone
- Complex
- Surgical
- Venous leg ulcers
- Diabetic ulcers
- Pressure ulcers
- Arterial ulcers

**Availability in multiple sizes for application flexibility**
- 1 x 2 cm Product Code: DHAM0012
- 2 x 3 cm Product Code: DHAM0023
- 4 x 4 cm Product Code: DHAM0044
- 6 x 6 cm Product Code: DHAM0066

**BIOVANCE components**

<table>
<thead>
<tr>
<th>Basement membrane</th>
<th>Function in normal dermal tissue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchors epithelial cells; down-regulates apoptosis of epithelial cells</td>
<td></td>
</tr>
<tr>
<td>Collagen protein</td>
<td>Structural support and guidance of cell migration and organization</td>
</tr>
<tr>
<td>Types I, III, IV, V, VII</td>
<td></td>
</tr>
<tr>
<td>Elastin</td>
<td>Elasticity of tissue</td>
</tr>
<tr>
<td>Glycosaminoglycans (GAGs)</td>
<td>Water attraction, lubrication, and reduction of inflammation</td>
</tr>
<tr>
<td>Glycoproteins</td>
<td>Cell-binding proteins in the ECM</td>
</tr>
<tr>
<td>Proteoglycans</td>
<td>Matrix hydration</td>
</tr>
<tr>
<td>Laminins and fibronectin</td>
<td>Collagen structure regulation; migration, differentiation, phenotype, adhesion, and survival of cells</td>
</tr>
</tbody>
</table>

**The Natural Properties of the Amniotic Membrane**

For 9 months, the amniotic membrane supports the growth and development of the fetus.
- Forms the innermost lining of the placenta during gestation
- Is the tissue closest to the fetus throughout development
- Serves as a barrier to minimize risk of injury to the fetus

**The natural function of the amniotic membrane brings protection and support to the wound it covers**

- Reduces inflammation
- Provides a biological barrier to infection
- Maintains a moist wound environment

**BIOVANCE is supplied as a single dehydrated sterile sheet in a double-peel pouch**
The easy-to-use human amniotic membrane allograft with 5-year off-the-shelf convenience

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- Trauma  |  Exposed tendon, muscle, bone
- Complex  |  Surgical  |  Venous leg ulcers
- Diabetic ulcers  |  Pressure ulcers  |  Arterial ulcers

Supports healing with minimal scarring:
- The potential to restore tissue to its pre-wound state

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Best results will be found in acute and excised chronic wounds

CASE CHARACTERISTICS:
- Gangrene of the great toe
- Severe Ischemia following recent successful bypass
- Acute transmetatarsal amputation site of the toe
- Full-thickness wound with moderate exudate

CASE CHARACTERISTICS:
- 68-year-old female
- PVD and venous stasis ulcer
- Left anterior shin

First application of BIOVANCE 3 cm x 5 cm x 1 mm
Healed ~12 weeks after 1 application of BIOVANCE

5 days after 1 application of BIOVANCE (date of biopsy)
Healed 15 days post-burn
20 days post-burn

Best results will be found in acute and excised chronic wounds
BIOVANCE is minimally processed to maximize natural benefits and safety

**Immunologically inert tissue**

- Contains no antigens,\(^6\) which further minimizes the risk of inflammatory response
- Tissue derived from the amniotic membrane is cleaned and preserved without altering its native collagen matrix architecture
- Chorion layer is removed to further support the natural healing process
  - Eliminates cellular debris
  - Avoids potential addition of MMPs to the wound\(^7\)
  - Prevents need for specific orientation for placement

**Additional safety features**

- Tissue used in processing is procured, processed, and tested in accordance with standards established by the AABB and the FDA
- Passed safety testing for cytotoxicity, hemolysis, irritation, endotoxins, and pyrogenicity
- Utilizes a bar-code tracking system for optimal safety monitoring and to enhance patient and practitioner confidence


BIOVANCE is a registered trademark of Celgene Corporation.

For more information about BIOVANCE, call 1-855-4ALLIQUA, or visit www.ALLIQUA.com.
To report an adverse event, contact: 1-800-640-7854.

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