BioBridge®
Resorbable Chest Wall Stabilization Plate

Innovative Solutions for Challenging Thoracic Procedures
BioBridge® is a versatile, non-permanent solution for chest wall stabilization. It was specifically designed to offer strength that exceeds typical chest wall loading and a resorption time that outlasts typical bone healing time.

**VERSATILE SOLUTION**
- Osteotomy stabilization
- Chest wall reconstruction
- Costochondral junction repair
- Pectus repair

**SUTURE PATTERNS**
- Simple interrupted
- Figure-of-eight
- Compression

**PLATE ATTRIBUTES**
- Sterile packed
- Non-permanent
- Customizable

Stackable
Resorbable
Flexible and Moldable
Trimmable
During a modified Ravitch procedure, BioBridge can be used as a non-permanent strut instead of using suture alone. This technique provides added support to the elevated sternum, with the goal of reducing recurrence of the pectus deformity. For precise technique information please visit www.acuteinnovations.com to download a copy of “Open Pectus Repair – BioBridge Sternal Support”.

Osteotomy Stabilization
An osteotomy or iatrogenic fracture of the ribs during thoracotomy has been associated with post thoracotomy pain.

BioBridge is ideal for internal stabilization of these types of fractures, if a non-permanent solution is desired.

Pectus Repair
During a modified Ravitch procedure, BioBridge can be used as a non-permanent strut instead of using suture alone.

This technique provides added support to the elevated sternum, with the goal of reducing recurrence of the pectus deformity. For precise technique information please visit www.acuteinnovations.com to download a copy of “Open Pectus Repair – BioBridge Sternal Support”.

Costochondral Junction Repair
Fractured cartilage caused by trauma or during a thoracotomy can be challenging to repair and require extended healing time. BioBridge can be used to stabilize the fracture through reduction and compression.

Chest Wall Reconstruction
Reconstruction may be indicated due to chest wall tumors (benign and malignant), radiation necrosis, contiguous lung or breast cancer and lung/chest wall infections and trauma.

The reconstruction technique, as described in “Chest Wall Reconstruction Using Biomaterials” provides long-term chest wall stability through bone healing and/or soft tissue scarring.

A detailed overview of this technique can be found at www.acuteinnovations.com.
SUTURE PATTERNS

Non-absorbable sutures, like braided polyester or nylon sutures (USP sizes 0 to 5), are recommended for use with BioBridge.

PLATE ATTRIBUTES

BioBridge® is non-permanent, versatile, and customizable:
- Sterile and single-packed
- 110mm x 14mm x 1.8mm
- 70:30 L/DL-lactide blend
- Maintains strength and stability for up to six months¹
- Fully resorbed within 18-24 months through hydrolysis¹
- Textured for easy handling and visibility
- Can be cut or molded to match the rib curvature
- Plates can be stacked for increased rigidity and/or length

BioBridge was specifically designed to withstand the forces of the chest wall while providing semi-rigid fixation, thus promoting bone regeneration. A lab test has shown that the strength of the BioBridge plate exceeds biological approximations of rib loading in coughing and breathing.

1. Data on file at Acute Innovations®.