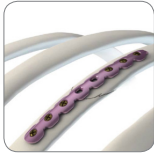


**MatrixRIB®**

FIXATION SYSTEM

# One System. A number of solutions.



## Rib Fixation

The MatrixRIB® Fixation System consists of pre-contoured, shaped, and straight locking plates, self-drilling and self-tapping locking screws, and intramedullary splints for the fixation and stabilization of the chest wall.



## Sternal Fracture Fixation

MatrixRIB System provides shaped and straight plates for the fixation of sternal fractures and transverse osteotomies.



## Chest Wall Reconstruction

Resections of defects greater than 5 cm in diameter require skeletal reconstruction to maintain physiologic respiratory function and protect vital intrathoracic organs.<sup>1</sup> Flail chest and paradoxical respiration may occur without proper stabilization causing pain, respiratory distress, and/or possible long-term mechanical ventilation needs.<sup>1</sup>

The main goals of reconstruction are:

- Maintenance of physiologic respiration
- Protection of thoracic organs
- An acceptable cosmetic result



## Pectus Deformity Repair

Pectus excavatum repair is performed primarily for relief of physiologic symptoms, and rarely only for cosmetic reasons.<sup>2,3</sup> The main goals of open Pectus Excavatum repair with internal sternal support are<sup>2,3</sup>:

- Reduce the occurrence of postoperative respiratory distress caused by paradoxical chest motion of respiration
- Reduce pain
- Permit early ambulation and deeper respiration
- Maximize the extent to which the deformity is permanently corrected



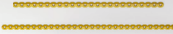




**DePuy Synthes**

PART OF THE *Johnson & Johnson* FAMILY OF COMPANIES

# SOLUTIONS

## Suggested clinical applications

Application	 Pre-Contoured Plates (1.5 mm)	 Universal Plate (1.5 mm)	 Straight Plates (1.5 mm)	 Sternal Plates (2.8 mm)	 Intramedullary Splints (1.0 mm)
<b>Trauma</b>					
Rib Fracture	✓	✓	✓		✓
Sternal Fracture			✓	✓	
<b>Thoracotomy</b>					
Rib Osteotomy/Latrogenic Fracture	✓	✓	✓		✓
Transverse Sternotomy				✓	
<b>Chest Wall Reconstruction</b>					
Rib Reconstruction/Resections	✓		✓		
Sternal Reconstruction/Resections			✓		
<b>Chest Wall Deformity Repair</b>					
Transverse Sternotomy				✓	
Rib Osteotomy	✓	✓	✓		✓

1. Netcher DT and Baumholtz MA. Anterolateral chest wall and wounds affecting respiratory function. *Plastic and Reconstructive Surgery*. 2009; 124(5):240e-252e.
2. Fonkalsrud, EW. 912 Open Pectus Excavatum repairs: changing trends, lessons learned: one surgeon's experience. *World J Surg*. 2009;33:180-190.
3. Schulz-Drost, S., et al. (2015). "Elastic Stable Chest Repair as a Means of Stabilizing the Anterior Chest Wall in Recurrent Pectus Excavatum with Sternocostal Pseudarthrosis: An Innovative Fixation Device." *Thorac Cardiovasc Surg* 63(5): 419-426.

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