



SURGICAL RIB FIXATION FOR RIB FRACTURES

RIB FRACTURES

A rib fracture is an injury most commonly caused by blunt trauma to the chest as a result of motor vehicle accidents and falls.

The current procedure for handling rib fractures primarily consists of supportive treatment including pain control, rest, and mechanical ventilation in some situations with more severe injury.

Clinical Challenges

Patients with flail chests (fractures of at least 3 consecutive ribs, each with 2 or more fractures) have been reported to suffer from long-term pain and disability. The following have been observed after long-term follow up of some patients with flail chests:

- Persistent chest wall pain^{1,2}
- Chest wall deformity²
- Difficulty breathing on exertion¹
- Prolonged disability¹

REFERENCES:

1. Landercasper J, Cogbill TH, Lindesmith LA. Long-term Disability after flail chest injury. *J Trauma*. 1984;24(5):410-4.
2. Simon B, Ebert J, Bokhari F, et al. Management of pulmonary contusion and flail chest: an Eastern Association for the Surgery of Trauma practice management guideline. *J Trauma Acute Care Surgery*. 2012;73(5 Suppl 4):S351-61.
3. Majercik S, Cannon Q, Granger SR, Vanboerum DH, White TW. Long-term patient outcomes after surgical stabilization of rib fractures. *Am J Surg*. 2014;208(1):88-92.
4. Leinicke JA, Elmore L, Freeman BD, Colditz GA. Operative management of rib fractures in the setting of flail chest: a systematic review and meta-analysis. *Ann Surg*. 2013;258(6):914-21.
5. Slobogean GP, MacPherson CA, Sun T, Pelletier ME, Hameed SM. Surgical fixation vs non-operative management of flail chest: a meta-analysis. *J Am Coll Surg*. 2013;216(2):302-11.



Surgical Rib Fixation (SRF)

presents a new option for effectively managing rib fractures.



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What is SRF?

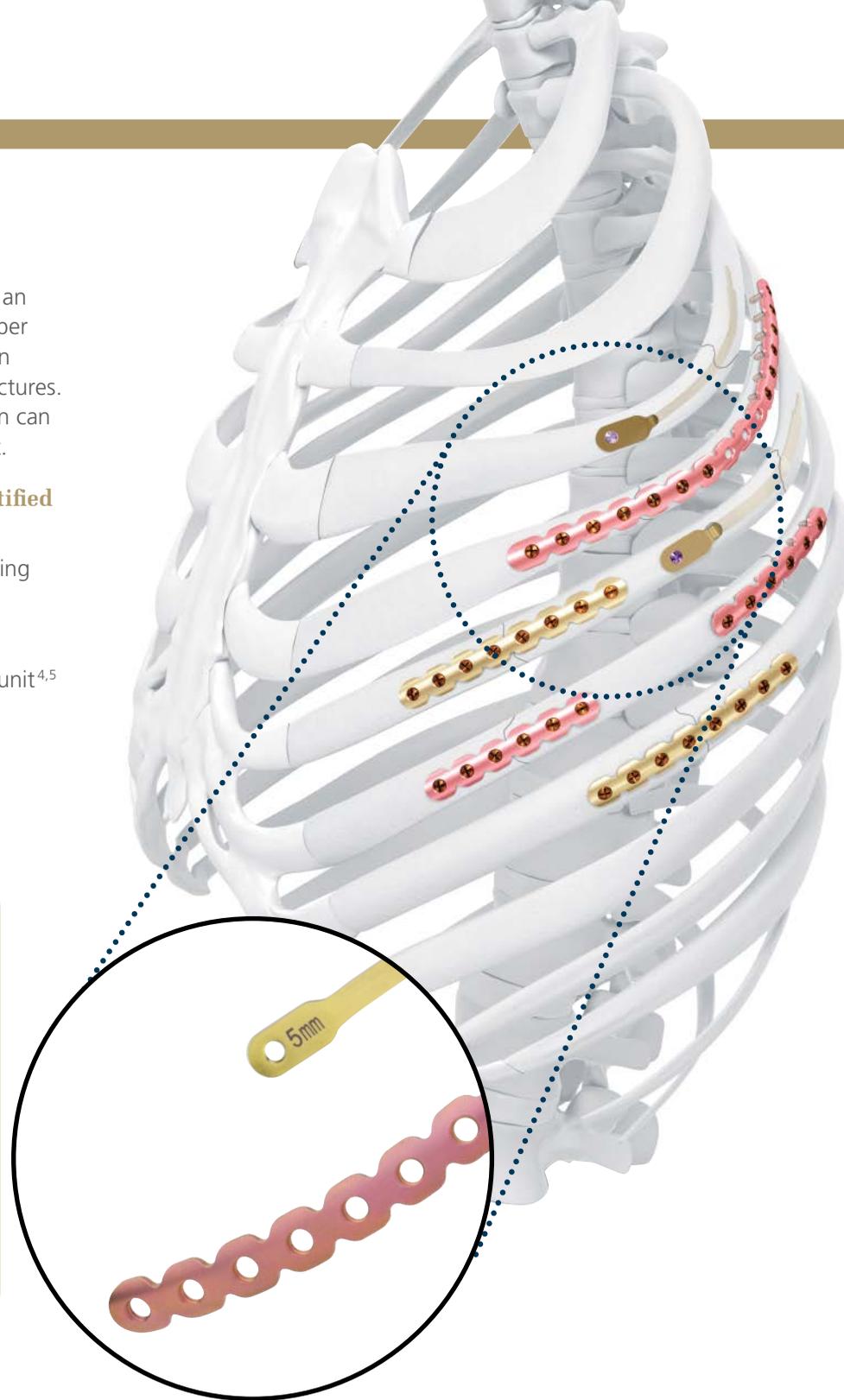
SRF is a procedure used to help hold an injured rib in place and allow for proper healing. It is increasingly becoming an accepted treatment for severe rib fractures. Studies have reported that rib fixation can benefit some patients with flail chest.

Potential advantages of SRF identified in medical publications:

- Restored chest wall anatomy allowing patients to breathe normally³
- Reduced days on ventilator^{4,5}
- Reduced stay in the intensive care unit^{4,5}
- Reduced overall hospital days^{4,5}
- Lowered risk of pneumonia^{4,5}

“For many of my patients, once the ribs were fixed into place, the level of discomfort dropped dramatically.”

– Dr. Jeff Kaplan
Trauma Surgeon



The MatrixRIB® Fixation System: A treatment option for SRF

The MatrixRIB Fixation System is approved for the fixation and stabilization of rib fractures, fusions and osteotomies (the surgical cutting or removal of bone) of normal and osteoporotic bone.

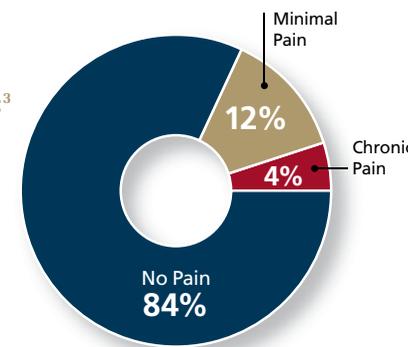
How it works

- The low-profile plates are designed to fit the average curve of the rib and maintain function of the rib cage to allow you to breathe more normally
- Depending on the location of the fracture(s), the plates can be placed using a minimally invasive technique through a small incision
- The plate is laid across the fracture and fixed in place to allow the bone to heal properly

Support for the MatrixRIB Fixation System

In a 16-month survey based on 50 patients treated with MatrixRIB Fixation System:³

- Of patients who were employed at the time of injury, 33 of 36 (92%) patients returned to work at the same job that they performed pre-injury
- 84% of patients reported no pain and that the discomfort was completely gone by about 5.4 weeks after discharge
- 94% stated that they would recommend the MatrixRIB Fixation System to friends and family if they suffered significant rib fracture injuries



Reasons to consider SRF:

SRF may:

- Reduce the total number of ventilator days^{4,5}
- Reduce the total number of days spent in the ICU & hospital^{4,5}
- Get you back to work faster³
- Reduce rib discomfort³

“When I learned that it could potentially speed my recovery, there was really no question in my mind that I wanted to move ahead with it, and I’m very glad we did.”

– Bill T., MatrixRIB Fixation Patient

Talk to your doctor and ask if SRF is right for you. For more information or to find a MatrixRIB surgeon in your area, visit www.brokenribsolutions.com

