



Criteria for Rib Fixation

Indications

- Flail Chest
 - Non-intubated patients with flail chest and worsening respiratory function
 - · Intubated patients with flail chest
 - Patients with extensive and/or bilateral flail chest without respiratory failure
 - · Flail sternum
- Chest Wall Deformity /Defect
 - Loss of thoracic volume or significant deformity that may limit chest wall function
 - · Open chest defect
 - Rib perforation of vital structures and/or pulmonary herniation
- Fractured Ribs non-flail
 - Patients with multiple displaced fractured ribs
 - · Painful non-union
- Pain Control
 - · Uncontrolled pain despite multimodal analgesia

Contraindications

- Patient unlikely to survive due to other injuries or age or multiple co-morbidities
- Other injuries that will likely prolong tracheal intubation and mechanical ventilation eg significant head injury, spinal cord injury resulting in paralysis of some or all of the respiratory muscles etc.
- Any contra-indication to surgery including severe immunosuppression or severe chronic disease
- · Pregnant women

How to refer patients

- The Trauma Department is the point of contact for referrals for possible rib fixation trauma will review and involve Cardiothoracic as appropriate
- · 3D reconstructions of the chest wall need to be organised (Request from CT radiographer)
- Referrals and consults should be made within 24-48 hours of admission Contact the Trauma Fellow or Trauma Consultant directly.

