**Indications**

For the alignment, stabilisation and fixation of various types of fractures or deformities caused by trauma or disease (provided that the epiphyses are closed). These include: traumatic fractures, re-fractures, non-union, reconstruction, malunion, malalignment, pathological fractures and impending pathological fractures.

**Advantages**

- Ease of use: colour coded system
- Universal and versatile nail with reduced inventory
- Distal Targeting System for assisted screw insertion and reduced X-ray exposure
- Design of the Orthofix locking screw design provides greater biomechanical strength
- Greater biomechanical strength

**Physio-Stim® model 3313**

**Indications**

Primary Treatment Sites: Right and Left Proximal Humerus and Clavicle

**Success Rates**

The effect of Physio-Stim PEMF on fracture non-union was demonstrated in an open trial PMA study which followed 181 patients with 193 fractures who had not healed on their own after nine or more months. In addition, Orthofix Patient Registry Data of 729 patients presenting 859 individual fractures treated with Physio-Stim resulted in the following outcomes (1, 2):

1. PMA P850007/S20
2. PMA P850007
4. Galaxy Fixation™ System
5. Osteotite Bone Screws
6. Paediatric LRS System
7. Physio-Stim®
8. Contoura® FH

**References**

- Physio-Stim® model 3313
- Orthofix Inc.
- 3451 Plano Pkwy, Lewisville, Texas 75056 U.S.A.
- 800-266-3349
- 214-937-3000
- Orthofix.com

**Physio-Stim®**

- Distributed by: ANATOMICAL SOLUTIONS
- Manufactured by: ORTHOFIX Srl
- Via Delle Nazioni 9, 37012 Bussolengo (Verona), Italy
- Telephone +39 045 6719000, Fax +39 045 6719380
- www.orthofix.com

**SUCCESS RATE %**

<table>
<thead>
<tr>
<th>Fracture Gap</th>
<th>0-3mm</th>
<th>3-6mm</th>
<th>Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMA Study</td>
<td>88%</td>
<td>92%</td>
<td>89%</td>
</tr>
<tr>
<td>Orthofix registry Data</td>
<td>88%</td>
<td>92%</td>
<td>89%</td>
</tr>
</tbody>
</table>

**Shoulder & Humerus**

**SUCCESS RATE %**

- Galaxy Fixation™ System
- Osteotite Bone Screws
- Paediatric LRS System
- Physio-Stim®
- Contoura® FH
- Biological response to fine pitch and hydroxyapatite coated bone pins. Lawes TJ and Goodship AE. Internal report.
Galaxy Fixation™ System – Shoulder

**Indications**
Proximal humeral fractures where two thirds of the metaphysis is intact even in presence of gross intra-articular damage, joint pathologies injuries, open or closed fractures

**Advantages**
- Stable fixation
- Stabilisation of humeral head fractures through threaded wires and the Galaxy Fixation specific shoulder clamps and bars
- Fast and easy assembly
- Single packed sterile kits and components
- MRI conditional

**ProCallus**

**Indications**
- Extensive diaphyseal fracture

**Advantages**
- Stable
- Versatile
- Modular
- Simple and quick to apply

Galaxy Fixation™ System - Shoulder

**Indications**
Fixation of fragments too small for large implants

**Advantages**
- Excellent stability guaranteed by fine thread and unique design
- Compression possible between fragments
- No pre-drilling or pre-tapping required
- Medium and large sizes can be combined with a washer to improve cortical contact
- Simplicity saves operative time

Osteotite Bone Screws

**Indications**
Fixation in cortical, cancellous and osteoporotic bone

**Advantages**
- Hydroxyapatite coating enhances osseointegration
- Bone screw inserted with sliding cortical bone screw available
- Enhanced fixation and reduced pin loosening
- Reduced incidence of pin track infection

Contours PHP™

**Indications**
Fractures, non-union and osteotomies of the proximal humerus

**Advantages**
- Low contoured profile designed to reduce the risk of impingement
- Innovative triangular configuration of the Main Locking Screw (Ø 5.6mm) in the calcar area and the proximal polyaxial Fine Threaded Screws (Ø 2.2mm) in crossed configuration
- Bone stock preservation in terms of metallic content in the humeral head to preserve its vascularity
- Large suture holes
- Low contact distal profile designed to preserve the periosteal blood supply

Fragment Fixation System

**Indications**
Fixation of fragments too small for large implants

**Advantages**
- Compact, easy to handle and unique design
- Compression possible between fragments
- No pre-drilling or pre-tapping required
- Medium and large sizes can be combined with a washer to improve cortical contact
- Simplicity saves operative time

XCaliber Fixator

**Indications**
Stabilisation of articular, meta-diaphyseal and diaphyseal fractures

**Advantages**
- Single pre-packed kits ready to use
- Radiolucent
- Lightweight
- Include XCaliber-Osteotite Screws, HA coated, proven protection against loosening

LRS Advanced®

**Indications**
Limb reconstruction and lengthening due to fresh fracture, nonunion with major soft tissue defect, and bone loss with shortening

**Advantages**
- Flexibility - versatility
- Stability and accuracy in corrections
- Availability of radiolucent components
- Easy to use

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