MultiLoc Humeral Nailing System. Multiply your options.

Improved fixation in osteoporotic bone

Flexible system with multiple locking options

Innovative design reduces inventory and costs
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With the MultiLoc Humeral Nailing System, Synthes opens up new opportunities for the treatment of humeral fractures. The modular implant system, consisting of a short and long nail with multiple locking options, covers a wide application range to address simple and complex fractures. The straight nail design and innovative screw concept enable customizable solutions for the individual patient.

Straight nail design for central insertion point:
- improved anchorage in strong subchondral bone
- potentially avoiding insertion through fracture site in typical 3-part fractures
- preservation of hypovascular supraspinatus footprint

MultiLoc screws:
- blunt screw tip to reduce the risk of secondary perforation
- suture holes to enable reliable attachment of the rotator cuff
- countersunk screw heads to reduce the risk of impingement
- optional secondary 3.5 mm locking screw (screw-in-screw) for improved fixation in osteoporotic bone

Polyethylene inlay provides angular stability and reduces instances of screw back-out.

Short and long nails are available in left and right versions.

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Screw-in-screw for improved fixation in osteoporotic bone

Unique and innovative screw-in-screw technology permits a more specific treatment of proximal humeral fractures. 3.5 mm locking screws inserted through the heads of MultiLoc screws target the posteromedial region with strong bone mineral density (BMD)\(^4,5\), reducing instances of varus collapse and providing improved fixation in osteoporotic bone\(^3,4\).

Ascending screw provides medial support

Medial support enhances the stability of the osteosynthesis and allows for a more secure fixation of proximal humeral fractures\(^3\), especially medially comminuted (varus-type) fractures.

Bicortical compression increases fracture stability

Bicortical compression is an innovative and easy-to-handle feature of the MultiLoc Humeral Nail (long), improving rotational stability in transverse and short oblique fractures to support bone union. A locking screw is inserted bicortically and safely below the axillary nerve. The simple and reliable mechanism holds compression intraoperatively, prior to insertion of additional screws in the proximal fragment.

Multiplanar distal locking in safe zone

Multiplanar distal locking reduces implant toggling in proximal humeral nailing. The MultiLoc Humeral Nail (long) includes safe and easily identifiable distal locking planes respecting neurovascular structures.

Smart instrumentation enables a straight-forward procedure

Intelligently designed instrumentation simplifies procedures and saves valuable OR time: color coding leads the way for less searching and easy assembly; self-holding mechanisms facilitate handling of sleeves and screwdrivers; while innovative flippable aiming arms reduce inventory and costs.
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