Device Description The Simple Locking Intra-Medullary (SLIM) system consists of intramedullary fixation devices for use in long bones. The solid shaft, beveled point, and pre-determined or blank length options rods are designed for easy insertion in the medullar canal. Anchorage of the device is a schieved through a concial cortical thread to obtain a stable fixation in the epiphyse or cortical bone, which aims to reduce the risk of migratures, such as a hexagonal drive and an internal mechanical thread in the head of the device, are designed for capture and guidance during insertion and retrieval. Additional proximal and distal locking holes allow supplemental pinning when required to ensure fixation with Locking Pins or Locking Pegs when required, and the Bullet Screws allow fixation of smaller diameter shafts that cannob ecross-pinned due to their size. The SLIM, single-use, implants are manufactured in medical grade Stainless Steel (SS316L, ASTM F138). The rods are available in seven diameters: 2.0, 2.6, 3.2, 4.0, 4.3, 5.6 and 6.4 mm, from 80mm up to 400 mm in length, and allow the end user to customize the length of the rod. Intended Use The SLIM System is intended as a temporary implant for alignment, stabilization and fixation of long bones that have been surgically prepared (osteotomy) for correction of deformities, or have sustained fractures due to trauma or disease. This includes the femur, tibia, humerus, uhna and fbula of the pediatric population (child and adolescent), and patients with small intramedullary canals afected by skeletal displasias, osteogenesis imperfecta or other bone diseases. Contrandications Donot use in any situation that is not described in the Intended Use section of this insert.

- contrandications
 Do not use in any situation that is not described in the Intended Use section of this insert.
 Devices should not be used in patients with:
 Active or suspected latent infection or marked local inflammation in or about the affected area.
 Osteoporosis, insufficient quality or quantity of bone/soft tissue
 Compromised vascularity inhibiting adequate blood supply to the operative site.
 Documented or suspected material sensitivity.

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 Compromised vascularity inhibiting adequate provement, i
 Documented of suspected material sensitivity.
 Sepsis
 Patients with abnormal neurological or mental conditions
 Other medical or surgical conditions which would preclude the potential benefit of surgery.
 Surgeons Should warn patients about these contraindications and limitations when appropriate.
 Atternet of the subscription of the same as with any metallic internal fixation device. These include, but are not limited to the following:
 Printation or abnormal sensations due to the presence of the device.
 Pritation or inflammation of surrounding soft tissue or skin over implant if coverage is insufficient
 Limb shortening or residual deformity with nonunion or malunion
 Metal sensibility and/or allergic reaction to a foreign body.
 Nerved amage due to the surgical trauma
 Bone resorption due to stress shielding.
 Possible encrowscular injury
 Possible lobod circulation or vessel damage, or avascular necrosis (AVN)
 Cessation of growth of the operated portion of bone
 Bony formation around implant making removal difficult or impossible
 Persistent instability
 Monumin or delayed union of bone fracture or bony fusion

Corrosion of implants
Additional injuries can occur as a result of postoperative trauma. Device breakage, loosening, and/or migration can occur as a result of early weight
bearing or muscle activity. It may be necessary to perform additional surgery in order to correct adverse effects or reactions which may not be related
to the actual system.
 These adverse effects include important considerations for metallic internal fixation devices. These risks and general surgical risks should be explained
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- to the patient prior to surgery
- Implants are single use items. Please note that single use device (SUD) which comes into contact with human blood or tissue should not be re-used

- Implants are single use items. Please note that single use device (SUD) which comes into contact with human blood or tissue should not be re-used and should be returned to the manufacturer or properly disposed.
 Hetal implants should never eireinplanted. Although appearing undamaged, the device may have small defects or internal stresses which may eventually lead to implant failure.
 Correct implant handling is extremely important. Avoid contouring of metallic implants. Discard all damaged or mishandled implants
 Correct implant handling is extremely important. Avoid contouring of metallic implants. Discard all damaged or mishandled implants
 Correct implant handling is extremely important. Avoid contouring of metallic inplants. Discard all damaged or mishandled implants
 Continuous screening with an image intensifier (fluoroscopy) during guide wire insertion and whenever cannulated instruments are advanced over a guide wire is recommended to prevent unintended guide wire advancement and penetration into the surrounding tissues.
 Pairute to use flagest possible components or improper positioning/insertion of the device during implantation can increase the possibility of migration. Josening, bending, cracking, or fracture of the device to bone, or both.
 Device breakage or damage can occur when implant is subjected to increased loading associated with delayed union, non-union, or incomplete healing. Proper consolidation should be observed prior to full weight bearing.
 Contouring and bending of an implant may reduce its fatigue strength causing failure under load.
 Improper insertion of the device during implantation can increase the possibility of loosening or migration.
 Bulte Screws, Locking Pins and Pegs included in the Simpel Locking IntraMedullary (SLIM) System should not be used as stand-alone implants.
 He daimeter of the Bulte Screws, Locking Pins and Pegs shou
- the device. Any decision to remove the device should take into consideration the potential risk to the patient of a second surgical procedure. Implant removal should be followed by adequate postoperative management to avoid re-fracture or recurrent deformity. Care should be taken not to cut through surgical gloves when handling any sharp-edged implants and instruments, and to take into account the school of the taken not to cut through surgical gloves when handling any sharp-edged implants and instruments, and to take into account the school of the taken not cut through surgical gloves when handling any sharp-edged implants and instruments, and to take into account the school of the taken set.
- Care should be taken not to cut through surgical gioves when handling any sharp-edged implants and instruments, and to take into account the risk of infection if a cut appears.
 Pega Medical advises against the use of another manufacturer's component with any Pega Medical component. Any such use will negate the responsibility of Pega Medical for the performance of the resulting mix.
 Early removal of Implant may cause the risk of re-fracture and the possible complications of an additional operation.
 Early removal additional operation.
 Compliance of the patient may affect the results of the fixation,

The SSCP is available in the European database on medical devices (Eudamed), where it is linked to the Basic UDI-DI (https://ec.europa.eu/tools/eudamed)

> Authorized Representative: Medicalex — Francemed 34 Avenue du Docteur Durand - 94110 Arcueil France

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See instruction for use / Ver instrucciones de uso / Lire les instructions avant usage

Do not reuse / No reutilizar / Ne pas réutiliser

Batch number / Número de lote / Numéro



Authorized representative / Representante



R ONL

Non sterile / No estéril / Non stérile LOT de lot



Static Magnetic Field Strength (B0) Maximum Spatial Field Gradient RF Excitation

RF Transmit Coil Type

Operating Mode Maximum Whole Body SAR Maximum Head SAR Anatomical Isocenter Landmarks

1.5 T SAR and Scan Durations 3 T SAR and Scan Durations

Image Artifact

May



Method Sterilization type Minimal temperature

Minimal cycle time Minimal drying time



Patients should be warned to avoid any sudden change in position, strenuous activity, or falls. To achieve a successful union, the patient should not be exposed to mechanical vibrations, wether intrinsic or extrinsic, that may lead to loosening of the device. The patient should be warned of this possibility and instructed to restrict physical activities especially those causing any type of mechanical stress on the area that is being secured by the system. The patient should avoid any type of sport activities or strenuous work during the postoperative or post implant removal healing period.

Static Magnetic Field 4
 Static Magnetic Field 4

Implanted in 1 W/kg whole body average SAR for 10 minutes of continuous RF: (a sequence or back to back series/scan without breaks) with a 20 minute cooling period between scans for one hour of scanning Only use local transmit-receive coils that device is not within

The presence of other implants or the health state of the patient may require a modification of the MR conditions.
 If information about a specific parameter is not included, there are no conditions associated with that parameter.
 CAUTION: Federal law (USA) and most other countries' laws restrict this device to sale by or on the order of a physician.
 Surgical Technique
 Standard surgical technique for the placement of the intramedullary nails is recommended. Pre-operative procedures, knowledge of applicable surgical
 technique sproper patient selection and correct placement of the implants are all equally important for the successful use of these products. The surgical
 technique manual details every toge and should be carefully followed.
 Device Lifetime and Retrieval
 Pervice Lifetime and Retrieval

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Actine or owning the instruction and parameters inset of other **Note for USA only: Sterilization wraps, pouches, indicators and sterilization trays should be FDA cleared for the sterilization cycle parameters.** The implant trays of the SLIM system should be sterilized using sterilization pouches. • Devices should be dry before packaged for sterilization

Warning: Do not stack trays during sterilization Other sterilization methods and cycles may also be suitable. However, validation of any alternative method using appropriate laboratory techniques

Uner Standarder and Resterilization Instructions for Instruments Cleaning, Sterilization and Resterilization Instructions for Instruments Reusable instruments must be cleaned and sterilized prior to every use. The instrument tray and instruments of the SLIM system should be sterilized wrapped in two layers of 1-ply polypropylene wrap using sequential wrapping techniques. Please refer to document entitled: "Guidance for Instrument Care" for further information and instructions regarding cleaning, sterilization and re-cterilization of instruments.

 Body Coil: See scan region limitations below

 Local Coils: Head transmit-receive coil, no restrictions on local transmit-receive coils that the device is not within

 Normal Operating Mode

 See details below

 3.2 W/kg (Normal Operating Mode)

 < 50 cm from center of bone that device is implanted in</td>

 1 W/kg whole bedware

The presence of this implant may produce an image artifact. Optimization of MR imaging parameters to compensate for the presence of this device may be necess

270°F (132°C)

30 minutes

2 W/kg whole body average SAR for 60 minutes of continuous RF. (a sequence or back to back series/scan without breaks)

1.5 T and 3 T

20 T/m (2,000 gauss/cm) or less Circularly Polarized (CP) Body Coil: See scan region limital



Medical device / Dispositivo Médico / Dispositif médical

Caution: law prohibits dispensing without

- Autorizado / Représentant Autorisé

www.medicalex.info

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