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ADIRA[™] LATERAL PLATE SYSTEM

MATION ON THE ADIRA[™] LATERAL PLATE SYSTEN

WITHIN THE UNITED STATES ONLY

ner Service: 1-866-GLOBUS1 (OR) 1-866-456-2871 1-866-GLOBUS3 (OR) 1-866-456-2873

ENGLISH IMPORTANT INFORMATION ON THE ADIRA[™] LATERAL PLATE SYSTEM

DESCRIPTION

The ADIRA' Lateral Plate System consists of one-level thoracolumbar plates and buttress plates that are used with variable, fixed angle, or locking bone screws for attachment to the lateral or anterolateral portion of the vertebral body of the thoracolumbar spine. (Ti-L5). ral Plate Syste

ADIRA" plates may be assembled to lateral lumbar interbody fusion devices (HEDRON L[®], TransContinental[®], RISE[®]-L, Modulus[®] XLIF, Cohere[®] XLIF, or CoRoent[®]) with an alignment screw to create an ADIRA[®] Plate-Spacer assembly, to provide structural stability in skeletally mature individuals following discectomy. The plate-spacer assembly is used with bone screws and/or lateral anchors.

ADIRA" plates, alignment screws, bone screws, and anchors are manufactured from titarium alioy, as specified in AS F186 or F1255. Bone screws and anchors are available with hydroxapatite (HA) coating, as specified in ASTM F185. Locking screws are manufactured from cobait chromium alioy, as specified in ASTM F1537. ASTM

INDICATIONS

ADIA* Letteral Plate System The ADIA* 2-Hole and 4-Hole Plates, when used with screws only, are intended for use in the treatment of thoracolumbar (1-L5) spinal instability as a result of fracture (including dislocation and subluxation), tumor, degenerati disc disease (DD), defined as back pain of discogenic origin with degeneration of the disc confirmed by patient history and radiographic studies), scolasies, kypholes, locations, or failed previous spinal surgery.

The ADIRA⁺ 1-Hole Plate is intended to stabilize allograft or autograft at one level (Tr1-L5), aiding in spin flusion and to provide temporary stabilization and auginal development of a spinal fusion. It may be used alone or with other anterior lateral, anteroitaticari, or posterior and sugnal systems. The device is not intended for load bearing applications.

lateral, anterolateral, or posterior spinal systems. The device is not intended for load bearing applications. ADIRA* 7eitas: Spacer Assembles ADIRA* Plates pager Assembles ADIRA* Plates Spacer Assembles to a starter and the spacer assemble of a lateral lumbar interbody fusion device (HEDRON LL*, TransContinental*, RISE* Modulus* XLF, CoRoent*, or Coherer * XLF Spacers to create a plate spacer assembly. When assembles to HEDRO LL*, TransContinental*, RISE* Modulus* XLF, CoRoent*, or Coherer * XLF Spacers, the plate-spacer assembly is indicated for use at one or more levels of the unboscard spine (L1-L3), as an adjunct to fusion in platents with the following indications: degenerative sociolosis or kyphosis, spinal storesis, and failed previous fusion (pseudarthosis). DDD is defined a discogrein back pain with degeneration of the disc confirmed by history and radiographic studies. These patients should be skeletally mature a here had at lates is (6) months of non-operative treatment. When ADIRA* Plates are assembled to Modulus* XLF, CoRoent*, or Cohere* XLIF Spacers, the plate-spacer assembly takes on the indications of the interbody device. ADIRA" Plate-Spacers are intended to be used with screws and/or anchors which accompany the implants. These devices are intended for use with supplemental fixation (e.g. facet screws or posterior fixation). In addition, the 2-Hole or 4-Hole Plate-Spacers are intended tor stand-alone use in patients with DDD at one or two levels only when <20° lordotic mplants are used with two or four screws, respectively.

ADIRA[®] Plate-Spacers are to be filled with autograft and/or allogenic bone graft co corticocancellous bone. ed of car mpris

WARNINGS

WARNINGS
One of the following potential risks identified with this system is death. Other potential risks, which may require addition surgery, include:
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This device is not approved for screw attachment or fixation to the posterior elements (pedicles) of the cervical, thoracic, or lumbar spine.

Certain degenerative diseases or underlying physiological conditions such as diabetes, rheumatoid arthritis, or osteoporosis may alter the healing process, thereby increasing the risk of implant breakage or spinal fracture.

Patients with previous spinal surgery at the involved level(s) to be treated may have different clinical outcomes compar to those without previous surgery.

Possible advesse effects that may occur include: failed fusion or pseudarthrosis leading to implant breakage; allergic reaction to implant materials; device fracture or failure; device migration or loosening; loss of fixation; vertebral fracture; decrease in boards in pain, discomfort, or abnormal somations due to the presence of the device; injury to nerves; vessels, and organs; venous thrombosis, lung embolism and cardiac arrest; and death.

The components of this system are manufactured from titanium alloy and cobalt chromium alloy. Mixing of stainles implant components with different materials is not recommended, for metallurgical, mechanical, and functional re

These warnings do not include all adverse effects which could occur with surgery in general, but are important considerations particular to orthopedic implants. General surgical risks should be explained to the patient prior to surgery.

PRECAUTIONS The implantation of

The implantation of these devices should be performed only by experienced spinal surgeons with specific training in the use this system because this is a technically demanding procedure presenting a risk of serious injury to the patient. Preoperative planning and patient anatomy should be considered when selecting implant size and screw dameter and length.

. Surgical implants are SINGLE USE ONLY and must never be reused. An explanted implant must never be reimplanted Even though the device appears undamaged, it may have small detects and internal stress patterns, which could lead to breakage.

Adequately in: to comply with rehabilitation. instruct the patient. Mental or physical impairment which compromises or prevents a patient's ith necessary limitations or precautions may place that patient at a particular risk during posto

For optimal implant performance, the surgeon should consid level, other patient conditions, etc. which may impact the per the levels of implanta rmance of the system t, p n, p

CONTRAINDICATIONS

- :
- **DNTEALDOIGATIONS**e of this system is contraindicated in patients with the following conditions:
 Active systemic infection, infection localized to the site of the proposed implantation, or when the patient has demonstrated allergy or foreign body sensitivity to any of the implant materials.
 Signs of local inflammation.
 Severe osteoporosis, which may prevent adequate fixation.
 Conditions that many place excesses stresses on bone and implants, such as severe obesity or degenerative diseases, are relative contraindications. The decision whether to use these devices in such conditions must be may the physical taking in taking into account the risk versus the benefits to the patient.
 Patients whose activity, mental capacity, mental illness, alcoholism, drug abuse, occupation, or lifestyle may interfe with theria ability to follow postoperative restrictions and who may place undue stresses on the implant during bony healing and may be at higher risk of implant fault.
 Any patient not willing to cooperate with postoperative instructions.
 Any condition not described in the indications for use. severe obesity or degenerative vices in such conditions must be made •

- Any patient not willing to cooperate with postoperative Any condition not described in the indications for use.

MRI SAFETY INFORMATION

MRI Safety Information A person implanted with the ADIRA[™] Lateral Plate Sys Failure to follow these conditions may result in injury. te System may be safely scanned under the following conditions

Device Name	ADIRA [™] Lateral Plate System
Static Magnetic Field Strength (B_0)	1.5T or 3.0T
Maximum Spatial Field Gradient	30 T/m (3,000 gauss/cm)
RF Excitation	Circularly Polarized (CP)
RF Transmit Coil Type	There are no Transmit Coil restrictions
Operating Mode	Normal Operating Mode
Maximum Whole-Body SAR	2 W/kg (Normal Operating Mode)
Maximum Head SAR	3.2 W/kg (Normal Operating Mode)
Scan Duration	2 W/kg whole-body average SAR for 60 minutes of continuous RF (a sequence or back to back series/scan without breaks)
MR Image Artifact	The presence of this implant may produce an image artifact.

PACKAGING The implants may be supplied pre-packaged and sterile, using gamma irradiation. The integrity of the sterile packaging should be checked to ensure that sterility of the contents is not compromised. Packaging should be carefully checked for completeness and all components should be carefully checked to ensure that there is no damage prior to use. Damage packages or products should not be used, and should be returned to Ciclous Medica. During surgery, after the correct size has been determined, remove the products from the packaging using aseptic technique.

The implants and instruments may be provided normality of the provided normality of the set of the

HANDLING AND USE

HANDLING AND USE All instruments and implants should be treated with care. Improper use or handling may lead to damage and/or possibl mallunction. Products should be checked to ensure that they are in working order prior to surgery. All products should be inspected prior to use to ensure that there is no unacceptable identification and as corrosion (i.e. urs., ptiting), discoloration, excessive scratches, notches, debris, residue, fixing, wear, cracks, cracked seals, etc. Non-working or damaged instruments should not be used, and should be returned to Globus Medical.

CLEANING

Instruments should be cleaned separately from instrument trays and cases. Lids should be removed from cases for the cleaning process, if applicable. All instruments that can be disassemibled must be disassemibled for cleaning. All handles must be distanced. Instruments may be reassemibled following stellization. The products should be cleaned using neutral dearens before stellization and introduction into a sterile surgical field or (if applicable) return of the product to Globus Medical.

 Globus Medical.

 Clearing and disinfecting can be performed with aldehyde-free solvents at higher temperatures. Cleaning and decontamination must include the use of neutral cleaners followed by a deionized water rinse. Note: certain cleaning solutions such as those containing formalin, glutaraldehyde, bleach and/or other akaline cleaners may damage some devices, particularly instruments: these solutions should not be used.

 The following cleaning methods should be observed when cleaning instruments and instrument trays and cases after use or exposure to solil, and prior to sterilization:

 1.
 Immediately following use, ensure that the instruments are wiped down to remove all visible soil and kept from drying by submerging or covering with a wet towel.

 2.
 Disassemble all instruments that can be disassembled.

 3.
 Rines the instruments that can be disassembled.

 4.
 Prepare Enzol⁶ (or a similar enzymatic detergent) per manufacturer's recommendations.

 5.
 Immers the instruments the detergent and adlow them to soak for a minitum of 2 minutes.

 6.
 Use a soft bristed boush to thoroughly clean the instruments. Use a pipe cleaner for any lumens. Pay close attention to hard to reach areas.

 7.
 Using a sterile syringe, draw up the enzymatic detergent solution. Flush any lumens and hard to reach areas until no soil is seen exiting the area.

 8.
 Remove the instruments from the detergent and not solution. Flush any lumens and hard to reach areas.

- 8.
- son is seen exampline area: Remove the instruments from the detergent and rinse them in running warm tap water. Prepare Erzol[®] (or a similar enzymatic detergent) per manufacturer's recommendations in an ultrasonic Completely immerse the instruments in the ultrasonic cleaner and ensure detergent is in lumens by flust lumens. Sonicate for a minitum of 3 minutes. 10
- 11. Remove the instruments from the detergent and rinse them in running deionized water or reverse osmosis water for a minimum of 2 minutes.
- 12. Dry instruments using a clean soft cloth and filt d pressuriz ed air
- Visually inspect each instrument for visible soil. If visible soil is present, then repeat cleaning process startin Step 3. 13.

CONTACT INFORMATION Globus Medical may be contacted at 1-866-GLOBUST (456-2871). A surgical technique manual may be obtained by contacting Globus Medical.

STERILIZATION

. / be provided sterile or nonsterile. Instruments are provided nonsteril

These implants ray be provided stelled in obsence, instruments are provided indistants. Sterlie implants are set terilized by gamma radiation, validated to ensure a Sterlity Assurance Level (SAL) of 0.⁴. Sterlie devices are packaged in a heat-sealed double pouch or container/pouch. The expiration date is provided in the packa stabl. These providuots are considered sterlie unless the packaging has been opened or damaged. Sterlie implants tha become nonsterile or have expired packaging are considered nonsterile and should be discarded. Sterlie implants me program limit specifications. ige eet

pyrogen imit specinications. Nonstarlie implatists and instruments have been validated to ensure an SAL of 10⁴. The use of an FDA-cleared wrap is recommended, per the Association for the Advancement of Medical Instrumentation (AAMI) ST49, Comprehensive Guide to Statem Statikization and Statiki Assurance in Health Care Facilities. It is the end user's responsibility to use only sterilizars and accessories (such as sterilization wraps, sterilization pouches, chemical indicators, biological indicators, and sterilization cassettes) that have been cleared by the FDA for the selected sterilization cycle specifications (time and temperature).

ving must be taken into consideration for proper sterilization of Globus When using a rigid ste devices and loaded or ation co ntainer, the follo d graphic c

- Recommended sterilization parameters are listed in the table belo
- : nimum of four (4)
- Indecting the detending of the set of the
- Two watchese instats. No more than one (1) loaded graphic case or its contents can be placed directly into a rigid sterilization contai Stand-alone modules/racks or single devices must be placed, without stacking, in a container basket to ensu optimal vertilizion. :
- The rigid sterilization container manufacturer's instructions for use are to be followed; if questions aris e contact the manufacturer of the specific container for guidance. Refer to AAMI ST79 for additional information concerning the use of rigid sterilization containers.

For implants and instruments provided NONSTERILE, sterilization is recommended (wrapped or containerized) as follo

Method	Cycle Type	Temperature	Exposure Time	Drying Time		
Steam	Pre-vacuum	132°C (270°F)	4 minutes	30 minutes		
Steam	Pre-vacuum	134°C (273°F)	3 minutes	30 minutes		
These parameters are validated to sterilize only this device. If other products are added to the sterilizer, the recommender parameters are not valid and new cycle parameters must be established by the user. The sterilizer must be properly						
parameters are not value and new cycle parameters must be exprimined by interease. The stemation must be property installed, maintained and calibrated. Ongoing testing must be performed to confirm inactivation of all forms of viable						

CAUTION: Federal (U.S.A.) Law Restricts this Device to Sale by or on the Order of a Physician

SYMBOL TRANSLATION						
REF	CATALOGUE NUMBER	STEMLE	NON-STERILE			
LOT	LOT NUMBER		MANUFACTURER			
\triangle	CAUTION	Σ	USE BY (YYYY-MM-DD)			
\otimes	SINGLE USE ONLY	8	DO NOT USE IF PACKAGE IS DAMAGED			
(TRACE)	DO NOT RESTERILIZE	Rx ONLY	PRESCRIPTION USE ONLY			
MD	MEDICAL DEVICE	MR	MR CONDITIONAL			