

### LATIS® LUMBAR SPACERS

ORTANT INFORMATION ON LATIS® LUMBAR SPACERS

GLOBUS MEDICAL, INC

/alley Forge Business 2560 General Armist Audubon, PA 19403 Audu

er Service: 1-866-GLOBUS1 (OR) 1-866-456-2871

1-866-456-2871 1-866-GLOBUS3 (OR) 1-866-456-2873

# WITHIN THE UNITED STATES ONLY

ENGLISH IMPORTANT INFORMATION ON LATIS® LUMBAR SPACERS

DESCRIPTION

LATIS® Spaces are lumbar interbody fusion devices used to provide structural stability in skeletally mature individuals following discoctomy. LATIS® Spaces are provided in a shape that accommodates a posterior, transforaminal, or lateral approach to the discitled footprint. The devices are available in various heights and geometric options to fit the anatomical needs of a wide variety of patients. These spacers are to be filled with autograt bone and/or allogenic bone graft composed of cancellous and/or confoccancellous bone. Portusions on the superior and inferior surfaces of each device grip the endplates of the adjacent vertebrae to resist expulsion.

LATIS® Spacers are manufactured from titanium alloy per ASTM F136 and F1295.

### INDICATIONS

LATIS\* Spaces are interbody fusion devices intended for use at one or more levels of the thoracic spine (T1-T12), thoracolumbar junction (T12-L1), or lumbosacral spine (L1-S1) as an adjunct to fusion in patients with the following indicators: degenerative des disease (DDI), disc hemiation (with myelopathy and/for radiculopathy, spondyloistness, deformly (degenerative scoliesis or hyphosis), spinal stenosis, and failed previous fusion (pseudarthrosis). DDI) is defined as discogenic back pain with degeneration of the disc confirmed by history and radiographic studies. These patients should be skeletally mature and have had at least six (6) months of non-operative treatment.

LATIS<sup>®</sup> Spacers are to be filled with autograft bone and/or allogenic bone graft composed of cancellous and/or corticocancellous bone. These devices are intended to be used with supplemental flation systems that have been cleared for use in the thoracounthoboscard is price (e.g., posterior pedicle screw and rod systems, anterior plate systems, and anterior screw and rod syst

### WARNINGS

s identified with this system is death. Other potential risks which may require additional surgery,

- device component fracture, loss of fixation,

- one of the potential risks in include:

  device component fractuloss of fixation,

  non-union,

  fracture of the vertebrae,

  neurological injury, and

  vascular or visceral injury
- Interbody fusion devices for the treatment of degenerative conditions are designed to withstand both full load ber the loads associated with long-term use which could result from the presence of non-union or delayed union.

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 level(s) to be treated may have different clinical outcomes compared to those without previous surgery.

Components of this system should not be used with components of any other system or manufacturer

The components of this system are manufactured from titanium alloy. Mixing of stainless steel implant compo different materials is not recommended for metallurgical, mechanical and functional reasons. PRECAUTIONS

FRECAUTIONS
The implantation of interventebral fusion devices should be performed only by experienced spinel surgeons with spertaining in the use of this system because this is a technically demanding procedure presenting a risk of serious injury the patient. Revended by planting and patient reasonsy should be considered when selecting implient size.

Surgical implants must never be reused. An explanted implant must never be reimplanted. Even though the dev undamaged, it may have small defects and internal stress patterns which could lead to breakage.

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

Factors such as the patient's weight, activity level, and adherence to weight bearing or load bearing instructions have an effect on the stresses to which the implant is subjected.

For optimal implant performance, the surgeon should consider the levels of implantation, patient weight, patilevel, other patient conditions, etc. which may impact the performance of the system.

# MRI SAFETY INFORMATION



e LATIS® Spacers are MR Conditional. A patient with this device can be safely scanned in an MR system meeting the

- | Title LAIN: Spatiates after two Custillarians. The patients with the solid collection of conditional conditions of conditions

Under the scan conditions defined above, the LATIS® Spacers are expected to produce a maximum t less than or equal to 3.9°C after 15 minutes of continuous scanning.

The image artifact caused by the device is not expected to extend beyond 35mm from the device when imaged with a gradient echo pulse sequence and a 3.0 Tesla MRI system.

# CONTRAINDICATIONS

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  Use of LATIS\* Spacerips is contraindicated in patients with the following conditions:

  1. 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

  2. Prior fusion at the levelips to be treated

  3. Severe ostopen body sensitivity to any of the implant materials

  4. Conditions that the levelips to be treated

  4. Conditions that may place excessive 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 made by the physician taking into account the risks versus the benefits to the patient.

  5. Patients whose activity, mental capacity, mental liness, activities, dury abuse, occupation, or lifestyle may interfere with their ability to follow postoperative restrictors and who may place undue stresses on the implant during bony healing and may be at a higher risk of implant flaure.

  6. Any condition not described in the indications for use

  7. Signs of local inflaurmation

  8. Fever or leukocytosis

  9. Morbid obesity

  10. Prograncy

  11. Mental flaured

  12. Any other condition which would preclude the potential benefit of spinal implant surgery, such as the presence of turnors or congenital abnormalities, fracture local to the operating site, elevation of sedmentation rate unexplained by other diseases, elevation of the write blood count (WBC), or a marked left shift in the WBC differential count it.

  15. Any patient row willing to cooperate with postoperative instruction

  16. Patients with a known heeddary or acquired bone his/billy or caldication problem should not be considered for this type of surgers must not be used for podatric cases, nor where the patient still has general skeletal growth

  17. These devices must be to be reduced to Grade 1

  18. Any acident row willing to cooperate with postoperative instruction

  19. Any case not needin

- COMPLICATIONS AND POSSIBLE ADVERSE EVENTS
  Prior to surgery, patients should be made aware of the following possil additional surgery to correct these effects: ssible adverse effects in addition to the potential need for
- Loosening, bending or breakage of component Displacement/migration of device components Tissue sensitivity to implant material
- Tissue sensitivity to implant material Potential for skin breakdown and/or wound complication

- Non-union or delayed union or mal-union infection. 
  Non-union or delayed union or mal-union infection. 
  None damage, including loss of neurological function (sensory and/or motor), paralysis, dysesthesia, hyperadiouspathy, reflex delicit, caude equine syndrome. 
  Durat tears, central spiral fluid selesioge. 
  Foreign of the sensor alleging to components or debrise. 
  Foreign only resident players of the sensor alleging to components or debrise. 
  Security or viscon alleging to components or debrise. 
  The security or viscon alleging to components or debrise or debrise or spiral curvature, loss of correction, height and/or reduction. 
  Univery retention or loss of bladder corrotter or debrise types of disorders of the urogenital system 
  lisus, gashtilis, bowel obstruction or other types of disorders of the urogenital system 
  lisus, gashtilis, bowel obstruction or other types of disorders of system compromise 
  Reproductive system compromise including impotence, sterility, loss of consortium and sexual dysfunction 
  Pain or discomfort. 
  Burstise 
  Decrease in bone density due to stress shelding 
  Loss of bone or fracture of bone above or below the level of surgery 
  Bone graft donor site pain, fracture, and/or delayed wound healing 
  Restriction of activities. 
  Lack or effective treatment of symptoms for which surgery was intended 
  Need for additional surgical intervention 
  Death

### PACKAGING

PRICAGING
These inplants and instruments may be supplied pre-packaged and sterile, using gamma irradiation. The integrity of the sterile packaging should be checked to ensure that sterile packaging should be checked to ensure that sterile packaging should be checked to ensure that there is no damage prior to use. Damaged packaging or products should not be usefully checked to ensure that there is no damage prior to use. Damaged packaging or products should not be useful and should be extended to Globus Medical. During surgey, after the correct size has been determined, remove the products from the packaging using assignite technique.

The instrument sets are provided nonsterile and are steam sterilized prior to use, as described in the STERILIZATION section below. Following use or exposure to soil, instruments must be cleaned, as described in the CLEANING section below.

### HANDLING AND USE

All instruments and implants should be treated with care, Improper use or handling may lead to damage and/or possible malfunction, Instruments should be checked to ensure that they are in working order prior to surgery. All instruments should be inspected prior to use to ensure that there is no unacceptable determination such as corrosion, discoloration, ptiting, cracked seals, etc. Non-working or damaged instruments should not be used, and should be returned to Globus Medical.

Implants are single use devices and should not be cleaned. Re-cleaning of single use implants might lead to mechanical failu and/or material degradation. Discard any implants that may have been accidently contaminated.

### CLEANING

LEANING.

Instruments that can be disassembled must be disassembled for cleaning. All handles must be detached. Instrument ay be reassembled following sterilization. The instruments should be cleaned using neutral cleaners before sterilizatio all introduction into a sterile surgical field or if application enter or cleaners. Cleaning and disinfecting instruments can be performed with aldehyde-free solvents at higher temperatures. sembled for cleaning. All handles must be detached. Instruments

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, glutaridehyde, bleach and/or other alkaline cleaners may damage some devices, particularly instruments; these solutions should not be used.

The following cleaning methods should be observed when cleaning instruments after use or exposure to soil, and prior

- to sterification:

  I immediately following use, ensure that the instruments are wiped down to remove all visible soil and kept fro by submerging or covering with a wet towel.

  Disassemble all instruments that can be disassembled.

  Riese the instruments under running tap water to remove all visible soil. Flush the lumens a minimum of 3 tim. nts are wiped down to remove all visible soil and kept from drying
- the lumens flush clean.
- Prepare Enzol\* (or a similar enzymatic detergent) per manufacturer's recommendations.
   Immerse the instruments in the detergent and allow them to soak for a minimum of 2 minutes.
   G. Use a soft bristed brush 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,
- to hard to reach areas.

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

  Remove the instruments from the detergent and rinse them in running warm tap water.

  Propere Enzol<sup>®</sup> (or a similar enzymatic detergent) per manufacturer's recommendations in an ultrasonic cleaner.

  Completely minness the instruments in the ultrasonic cleaner and ensure detergent is in tumens by flushing the lumens.
- Sonicate for a minimum of 3 minutes.

  11. Remove the instruments from the detergent and rinse them in running deionit a minimum of 2 minutes.
- a minimum of 2 minutes.

  12. Dry instruments using a clean soft cloth and filtered pressurized air.

  13. Visually inspect each instrument for visible soil. If visible soil is present, then repeat cleaning process starting with Step 3.

CONTACT INFORMATION
Globus Medical may be contact
contacting Globus Medical. ed at 1-866-GLOBUS1 (456-2871). A surgical technique manual may be obtain

STERILIZATION
These implants and d instruments may be ava ilable sterile or nonsterile

Sterile implants and instruments are sterilized by gamma radiation, validated to ensure a Sterility Assurance Level (SAL) of 10°. Sterile products are packaged in a heat sealed, double pouch. The expiration date is provided in the package label. These products are considered sterile unless the packaging has been opened or damaged. Sterile implants and instruments that become nonsterile or have expired packaging are considered nonsterile and may be steriled according to instructions for nonsterile impairs and instruments below. Sterile implants met propoga limit specifications.

Nonsterile implans and instruments have been validated to ensure a NSAL of 10°. The use of an FDA-cleared wrap is nonsterile implanted in the control of th

Cassatures in the rave been obsered by the PDA for the selected stemication cycle specimicalities (in the air distription of Globus devices and loaded graphic cases:

- Recommended stemization parameters are listed in the table below.

- Only PDA-cleared rigid stemization containers for use with pre-vacuum steam stemization may be used.

- When selecting a rigid stemization container, it must have a minimum filter area of 17-6 in total, or a minimum of four (4) 7.5 in dameter filters.

- No more than one (1) loaded graphic case or its contents can be placed directly into a rigid stemization container.

- Stand-alone modules/racks or single devices must be placed, without stacking, in a container basket to ensure optimal executivities.

- itidistrict.

  rigid sterilization container manufacturer's instructions for use are to be followed; if ques nufacturer of the specific container for guidance.

  fer to AAMI ST79 for additional information concerning the use of rigid sterilization contail
- For implants and instruments provided NONSTERILE, sterilization is recommended (wrapped or conta

Τ Method Cycle Type Temperature Exposure Time Drying Tim

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 recommended						

parameters are not valid and new cycle parameters must be established by the user. The sterilizer must be propeny installed, maintained, and calibrated. Ongoing testing must be performed to confirm inactivation of all forms of viable microorganisms CAUTION: Federal Law (USA) Restricts this Device to Sale by or on the order of a Physician.

SYMBOL TRANSLATION					
REF	CATALOGUE NUMBER	STERILE R	STERILIZED BY IRRADIATION		
LOT	LOT NUMBER	EC REP	AUTHORISED REPRESENTATIVE IN THE EUROPEAN COMMUNITY		
$\triangle$	CAUTION	ш	MANUFACTURER		
8	SINGLE USE ONLY	Σ	USE BY (YYYY-MM-DD)		
QTY	QUANTITY				