



ANTERIOR SPINE TRUSS SYSTEM - STAND ALONE (ASTS-SA) INTERBODY FUSION DEVICE

INSTRUCTIONS FOR USE (ENGLISH)

PLEASE READ CAREFULLY

CAUTION: FEDERAL LAW (USA) RESTRICTS THESE DEVICES TO SALES BY OR ON THE ORDER OF A PHYSICIAN.

INTENDED USE

The Anterior Spine Truss System - Stand Alone (ASTS-SA) Interbody Fusion Device is designed to provide mechanical support to the lumbar spine while biological fusion takes place.

DEVICE DESCRIPTION:

The device is an open architecture truss design mathematically formulated to provide structural support with open space throughout the truss for bone growth and fusion. The 4W6B additive manufacturing process provides a hierarchical surface roughness. The truss is made from Ti6Al4V alloy. The device is available in a variety of sizes and lordotic angles to accommodate the patient's anatomy. Screws are inserted through the anterior part of the implant into adjacent vertebral bodies for bony fixation.

INDICATIONS FOR USE:

The Anterior Spine Truss System - Stand Alone (ASTS-SA) Interbody Fusion Device is a stand-alone interbody fusion device used to treat degenerative lumbar patients with Degenerative Disc Disease (DDD) of the lumbarosa spine at one or two contiguous disc levels. Each interbody fusion device is intended to be used with three titanium alloy screws which accompany the interbody fusion device. The 4W6B Interbody Fusion Device is intended to be used with supplemental fixation (eg. posterior DDD) is defined as discogenic back pain with degeneration of the disc on the patient's history and radiographic studies. ASTS-SA Interbody Fusion Device are intended to be applied to fusion in the lumbarosa spine and are placed via an anterior approach at the L2-L5 disc levels using a minimally-invasive approach. The device is used for anterior or posterior or corpectomy bone graft. Patients should have received 3 months of non-operative treatment prior to treatment with the devices. These DDD patients may also have up to Grade I spondylolisthesis or retrolisthesis at the involved level(s).

CONTRAINDICATIONS:

- Active infection at the operative site or other active systemic infections
- Tumor involvement of the operative site
- Prior fracture at the level(s) to be treated
- Known sensitivity to the material

WARNINGS AND PRECAUTIONS:

- Safety and effectiveness have not been established in the following conditions:
 - Groin
 - Smoking
 - Use of more levels to be fused
 - Symptomatic cardiac disease
 - Pregnancy
 - Spinal fusion attempts at the involved level(s)
 - Spondylolisthesis or retrolisthesis greater than Grade I
 - Significant osteoporosis or osteomalacia
 - Conditions requiring chronic corticosteroid use
 - Active drug abuse

The ASTS-SA Interbody Fusion Device is for single use only.

Bending or fracturing of the implants or instruments can occur if not handled properly.

All sizes and instrumentation are provided non-sterile and must be steam sterilized prior to use. The 4W6B Spine Truss System implants are intended to be used together with the 4W6B Spine Truss System instrumentation during spinal fusion interventions.

No implant should be reused if it has come in contact with blood or other bodily fluids.

All implants, sizes and instrumentation should be inspected prior to use for possible damage or defects. Any damaged or defective component should be discarded and should be returned to 4W6B.

Intervertebral fusion devices are intended to provide mechanical support while biological fusion occurs. In the event of pseudoarthrosis or delayed fusion, the risk of implant migration, loosening or breakage increases. The physician/surgeon should consider the levels of implantation, patient weight, patient activity level, other patient conditions, etc. which may impact the performance of the lumbar spine fusion procedures should implant this device.

Any surgeons trained in lumbar spine fusion procedures should implant this device.

For disposal of a product that has come in contact with body fluids, follow standard hospital procedures for disposing of potentially hazardous material. For disposal of a product that has not been in contact with body fluids, follow procedures for removal of hospital waste in force within the institution.

OPERATIVE PRECAUTIONS:

The surgeon is to be thoroughly familiar with the ASTS-SA Interbody Fusion Device, methods of application, instruments and techniques for implantation. The surgeon should be familiar with the correct positioning of the ASTS-SA Interbody Fusion Device relative to the vertebrae should be checked intraoperatively with x-ray. The size (and lord angle more particularly the height) of the ASTS-SA Interbody Fusion Device must be chosen on the basis of the patient's anatomy and the surgeon's preference. The height of the ASTS-SA Interbody Fusion Device is intended to be used with the 4W6B Spine Truss System screws which accompany the device.

The 4W6B Spine Truss System Manual (for complete details), the implants are for single-use implant use only. An explanted implant may be re-implanted. Stresses and fractures, even though not noticeable by visual inspection, may have been created during initial implantation.

Upon implantation, the product number and manufacturing lot number of the device that has been implanted must be reported in the patient's surgery file.

POTENTIAL ADVERSE EVENTS:

Potential adverse events may be related to surgery to generate, spine surgery specifically or the device. These may include, but are not limited to the following:
- Adverse events related to any organ; reactions to anesthesia, the anesthetic or other medications; bleeding, infection, iliac blood vessel damage, soft tissue damage, atelectasis, pneumonia, hematomas, seroma, wound dehiscence or incisional hernia, urologic problems, anemia, emesis, colitis, thrombophlebitis, heart attack, stroke, or death.
- Adverse events related to spine surgery, such as nerve root laceration, nerve damage leading to radiculopathy, myelopathy, paraparesis, paresthesia or paralysis; meningitis, vertebral body damage or fracture, ligament damage, fractured sacrum, or retrograde ejaculation.

SURGICAL TECHNIQUE MANUAL:

To receive additional copies of the Surgical Technique Manual, contact your local sales representative or the company at the address below.

POSTOPERATIVE CARE:

The physician's postoperative directions and warnings to the patient and the corresponding patient compliance are exemplary and should be followed.
- Detailed instructions on the use and limitations of the device must be given to the patient. The patient must be warned that loosening, and/or breakage of the device are complications which may occur as result of early or excessive activity.
- The patient must be advised not to smoke or consume alcohol during the course of the bone fusion process.
- The patient should be instructed to bend, lift and push with care and to avoid activities that may compensate for this permanent physical restriction to body motion.

MR SAFETY INFORMATION:

Non-clinical testing has demonstrated the ASTS-SA Interbody Fusion Device is MR Conditional. A patient with this device can be safely scanned in an MR system providing the following conditions:

- Static magnetic field of 1.5 T or less
- Maximum spatial field gradient of 190 Gauss/cm (19 T/m)
- Maximum RF system power, whole body average specific absorption rate (SAR) of 2 W/kg (Normal Operating Mode)

Under the same conditions defined above, non-clinical testing results indicate the ASTS-SA Interbody Fusion Device produces a maximum temperature rise of no more than 5.0°C after 15 minutes of continuous scanning.

In non-clinical testing, the image artifact caused by the device extends approximately 28 mm from the ASTS-SA Interbody Fusion Device when imaged with a gradient echo pulse sequence and a 3 T MR system.

PACKAGING:

ASTS-SA Interbody Fusion Device is provided sterile and is clearly labeled as such in an unopened sterile package provided by 4W6B. The contents of the package should be inspected to ensure that the expiration date on the device label has passed. The device label should be checked to ensure that the quality of the contents is not compromised.

Implants supplied sterilized from 4W6B must not be sterilized.

ASTS-SA ancillary instrumentation is provided non-sterile and is supplied in a tray that is used for steam sterilization prior to use in the operating room. In the case of instrument restock, individual items will be sent in a plastic bag, labeled for that device.

Storage conditions must maintain the integrity of the implants, associated ancillary instruments and their respective packaging. The condition of all implants and instruments must be checked before use. Damaged products must not be used and should be returned to 4W6B.

INFORMATION FOR CLEANING AND STERILIZATION OF SURGICAL INSTRUMENTS:

CAUTION: THESE INSTRUCTIONS DO NOT APPLY TO SINGLE-USE DEVICES.

The instruments used to implant the ASTS-SA Interbody Fusion Device do not have an indefinite functional life. All reusable instruments are subjected to repeated stresses related to bone contact, impaction, routing, cleaning, and sterilization processes. Instruments should be carefully inspected before use to ensure that they are fully functional.

All ancillary instruments of the ASTS-SA Interbody Fusion Device are delivered non-sterile and therefore, must be decontaminated and sterilized prior to surgical use. Decontamination reduces the population of microorganisms and facilitates the subsequent cleaning stage. Strict compliance with the instructions for use pertaining to decontamination and cleaning is mandatory, particularly the concentration and exposure time requirements. Thorough rinsing with water must be performed after decontamination and cleaning.

Decontamination: Each hospital must use their own validated decontamination procedures.

Cleaning: Wash instruments in a LANCER type or equivalent ISO 15883-1 and ISO 15883-2 compliant washing machine with the appropriate cleaning product, rinse, and dry. Any product which may alter the material is prohibited, i.e. bleach, formalin, hypochlorite solutions, saline solution, etc.

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- Scratches or dents can result in breakage.
- For instruments produced by another manufacturer, reference the manufacturer's instructions for use.
- Care should be taken to remove any debris, tissue or bone fragments that may collect on the instrument.

REPROCESSING INSTRUCTIONS:

- Enzyme wash
- Carefully inspect instruments between uses to verify proper functioning and configuration.
- Damaged instruments must be replaced to prevent potential patient injury such as loss of metal fragments into the surgical site.

DECONTAMINATION CONSIDERATIONS – CREUTZFELDT-JAKOB DISEASE (CJD):

- For patients with, or suspected with, Creutzfeldt-Jakob Disease (CJD), variant CJD or other transmissible spongiform encephalopathy (TSE) and related infections, it is recommended to treat the patient using single-use instruments.

REPRESSING INSTRUCTIONS:

CARE AT THE POINT OF USE:

- Immerse the water container used for ultra-filtration, RDI and/or distilled.
- Thoroughly clean instruments as soon as possible after use. If cleaning must be delayed, immerse instruments in a disinfectant or neutral detergent to prevent drying and encrustation of surgical steel.
- Avoid prolonged exposure to saline to minimize the chance of corrosion.
- Remove excessive soil with a low lint disposable wipe.

CLEANING:

- No instruments provided with the ASTS-SA Interbody Fusion Device require disassembly prior to cleaning.
- Prepare an enzyme wash solution in accordance with the manufacturer's instructions (1oz Enzol, or equivalent, per gallon of purified water). Note: the enzyme solution must be changed on a regular basis.
- Soak soiled instruments for 5 minutes in the enzymatic solution.
- Use a soft brush to scrub to remove all traces of blood and debris; pay close attention to any hard-to-reach areas, textured surfaces, or crevices.
- Clean the instrument thoroughly with purified water.
- Dry the instrument immediately after final rinse.
- Rinse the instruments using a validated washer/dryer and the following parameters:

Process	Time	Reagent	Water Temperature
Pre-wash	2 min	Not applicable	Cold water
Enzyme wash	2 min	Enzol (2oz/gal) or equivalent	Hot water
Wash 1	2 min	Valisure Neutral (1oz/gal) or equivalent	65.5°C
Rinse 1	2 min	Not applicable	Hot water
Thermal rise	1 min	Not applicable	90°C
Drying*	6 min	Not applicable	98.8°C

*Use lint-free cloths to dry residual water and filtered pressurized air at < 20 psi

- Place heavier instruments on the bottom of containers. Do not place heavy instruments on top of delicate instruments.
- For instruments with concave surfaces, such as curesets, place instrument with the concave surface facing downward to facilitate draining.

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All ancillary instruments of the ASTS-SA Interbody Fusion Device are delivered non-sterile and therefore, must be decontaminated and sterilized prior to surgical use. Decontamination reduces the population of microorganisms and facilitates the subsequent cleaning stage. Strict compliance with the instructions for use pertaining to decontamination and cleaning is mandatory, particularly the concentration and exposure time requirements. Thorough rinsing with water must be performed after decontamination and cleaning.

Decontamination: Each hospital must use their own validated decontamination procedures.

Cleaning: Wash instruments in a LANCER type or equivalent ISO 15883-1 and ISO 15883-2 compliant washing machine with the appropriate cleaning product, rinse, and dry. Any product which may alter the material is prohibited, i.e. bleach, formalin, hypochlorite solutions, saline solution, etc.

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