

PRECISION[®] THE WAY TO SIMPLICITY[®] ANTERIOR CERVICAL PLATE SYSTEM

Instructions for Use

LB-LFU-005 Rev D
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SIMPLICITY[®] ANTERIOR CERVICAL PLATE SYSTEM

CAUTION: Federal (USA) law restricts this device to sale by or on the order of a physician.

DISCLAIMER OF WARRANTY AND LIMITATION OF REMEDY

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DEVICE DESCRIPTION

The Simplicity Anterior Cervical Plate System consists of various sizes of anterior cervical bone plates, locking rivets pre-assembled and bone screws that can be assembled with associated instruments to provide immobilization of the cervical spine. All components are made from medical grade titanium or titanium alloy described by such standards as ASTM F136 or ISO5832-3. The products are supplied clean and "NON-STERILE".

INDICATIONS

The Simplicity Anterior Cervical Plate System is indicated for use in temporary stabilization of the anterior spine from C2 to T1 during the development of cervical spinal fusions in patients with degenerative disc disease (DDD) (as defined by neck pain of discogenic origin with degeneration of disc confirmed by patient history and radiographic studies), spondylolisthesis; trauma (including fractures or dislocations); spinal tumors; spinal stenosis; pseudotumor; and failed previous fusions.

PRECISIONS

The Simplicity Anterior Cervical Plate System should be implanted only by surgeons who are fully experienced in the use of such implants and the required specialized spinal surgery techniques.

CONTRAINDICATIONS

The Simplicity Anterior Cervical Plate System contraindications include, but are not limited to:

1. Patients with infection in or adjacent to the spine or spinal structures
2. Inadequate tissue coverage over operative site
3. Patients with morbid obesity
4. Pregnancy
5. Bone absorption, rapid joint disease, osteomalacia, osteopenia, and/or osteoporosis
6. Any spinal surgery case not needing a fusion
7. Any reuse or multiple use
8. Fever or leukocytosis
9. Any patient unwilling or resistant to following postoperative instructions
10. Mental status or altered sensorium
11. Cardiovascular complications
12. Allergic or other reaction to the metallic components and/or implants

POTENTIAL ADVERSE EFFECTS

The following potential adverse effects associated with the procedure have been informed concerning the spinal abnormality, the anterior fusion with instrumentation, and the potential adverse effects. The following are general contraindications, but are not limited to:

1. Loss of proper spinal curvature, correction, height, and/or reduction
2. Infection
3. Non-union or delayed union
4. Foreign body reaction to the implants
5. Hemorrhaging
6. Loss of neurological function, dual neck, pain, and/or discomfort
7. Bone graft fracture, vertebral body fracture or discontinued growth of fusion at, above and/or below the surgery level
8. Bending, loosening, fracture, disassembly, slippage and/or migration of the components
9. Revision surgery
10. Dysphagia
11. Bursitis
12. Bone loss and/or bone fracture due to stress shielding
13. Loss of bladder control
14. Injury to recurrent laryngeal nerve resulting in alteration of voice
15. Injury to esophagus and/or trachea

WARNINGS

The following are not approved for screw attachment to the posterior elements (pedicles) of the cervical, thoracic, or lumbar spine.

Potential risks identified with the use of this device system, which may require additional surgery, include device component fracture, loss of fixation, non-union, fracture of the vertebrae, necrosis of the bone, neurological injury, and/or vascular or visceral injury.

The benefit of spinal fusion utilizing any anterior plating system has not been adequately established in patients with stable spines.

The safety and outcome and compliance will greatly affect the ability. Patients suffering from obesity, malnutrition, and/or poor bone quality are poor candidates for spinal fusion. Patients who smoke or abuse alcohol are poor candidates for spinal fusion.

Patients who smoke should be advised of the consequences of the fact that an increased incidence of non-union has been reported with patients who smoke.

If it is recommended that the locking rivets should only be engaged once, or tightened once, if necessary.

The locking rivets should not be engaged until the surgeon has screwed and diagnosed all bone screws and is ready to close the soft tissue.

Failure to engage the locking rivet may miss back out of the screws because of the following:

1. Implants and instruments are provided non-sterile and must be cleaned and sterilized before use.
2. A successful result is not always achieved in every surgical case due to many extraneous circumstances. This device is intended for temporary spinal fusion in order to obtain a solid fusion mass using a bone graft.
3. Only surgeons trained and experienced in spinal decompression and bone grafting techniques should use the cervical plates. Preoperative and operating procedures, including knowledge of surgical techniques and proper selection and placement of the implants are essential considerations in the utilization of this device.
4. Do not use implants, or other devices, or otherwise suspect implants. AN IMPLANT SHOULD NEVER BE RE-USED. Any implant, once used, should be discarded. Even though it appears undamaged, it may have small defects and internal stress patterns that may lead to failure. Reuse can potentially compromise device performance and patient safety.

PREOPERATIVE

The surgeon should only consider utilizing the Simplicity Anterior Cervical Plate System with those patients who meet the criteria in Indications.

The surgeon should avoid utilizing this device with those patients who are uncooperative, and available prior to surgery.

Patients should make sure that all implants and instruments are unpacked, sterilized, and available prior to surgery.

STERILIZATION

The Simplicity Anterior Cervical Plate System is supplied non-sterile and must be cleaned and sterilized prior to use. Remove all packaging before sterilization. Implants and instruments should be autoclave sterilized using one of the following validated cycle parameters.

Method	Cycle Type	Sterilization Temperature	Minimum Exposure Time
Steam	Gravity Displacement	270°F (132°C)	15 minutos
Steam	Pre-vacuum	270°F (132°C)	4 minutos

CARE AND HANDLING

All torques handling should be returned to the manufacturer for recalculation every six months.

Please refer to ASTM standards such as F1744-96, "Standard Guide for Care and Handling of Stainless Steel Surgical Instruments" for additional information.

Surgical instruments are subject to wear with normal usage. Instruments which have experienced extensive use or excessive force are susceptible to fracture. Surgical instruments should only be used for their intended purpose.

Precision Spine recommends that all instruments be visually inspected for wear and disfigurement, as well as tested to ensure instruments are functioning properly prior to use. If instruments are discolored, have loose screws/rivets, are out of alignment, are cracked or have other irregularities, do **NOT USE**.

CLEANING AND DECONTAMINATION

These instructions are to be followed prior to initial use and reprocessing of the instruments.

Reprocessing the instruments using the methods described herein, will not limit the useful life of the instruments. The useful life of the product is typically determined by wear and damage due to use.

Transport trays should be considered reusable devices, and inspected for visible soils and must be cleaned.

WARNING: The following Cleaning Instructions have been validated. Failure to follow all steps may result in a improperly cleaned and sterile instrument (Non-Sterile).

CAUTION: In order to preserve optimal efficiency and safety of the instruments, the following instructions must be followed.

MAGNETIC RESONANCE ENVIRONMENT

The Simplicity Anterior Cervical Plate System has not been evaluated for safety and compatibility in the Magnetic Resonance environment. The Simplicity Anterior Cervical Plate System has not been tested for heating or migration in the Magnetic Resonance environment.

STORAGE INSTRUCTIONS

All products should be stored in a cool dry place.

HOW SUPPLIED

The required components and specialized instruments are supplied non-sterile in a container suitable for transport sterilization or individually packaged as replacement product. All components and instruments may be purchased independently.

PREPARATION

Before beginning to use the instruments of the package, it is recommended that the user should read and understand the instructions for use for each component of the package. It is recommended that the user should read and understand the instructions for use for each component of the package. It is recommended that the user should read and understand the instructions for use for each component of the package.

REPRODUCTION

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LIMITATION OF LIABILITY

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NOTICE

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