

K103505

SpineCraft, LLC

510(k) Premarket Notification
ALTUM Anterior Cervical Plate

**510(k) Summary
for the ALTUM Anterior Cervical Plate**

MAR 15 2011

In accordance with 21 CFR 807.92 of the Federal Code of Regulations
the following 510(k) summary is submitted for the ALTUM Anterior Cervical Plate

Date Prepared: 11/24/210

Submitter:

SpineCraft, LLC
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Westchester, IL 60154 USA
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Contact Person:

Ami Akallal-Asaad
Director of Regulatory Affairs.
SpineCraft, LLC
a.asaad@spinecraft.com

Establishment Registration No:

3004717358

Trade name:

ALTUM Anterior Cervical Plate System

Common Name:

Anterior Cervical Plate

Classification Name:

Spinal intervertebral body fixation orthosis

Product Code:

Per 21 CFR 88.3060

Classification Panel:

KWQ Class II

87

Predicate or legally marketed devices which are substantially equivalent:

Envision2 Anterior Cervical Plate System (K020649) / Ortho Development
Spider Cervical Plating System (K052292) / X-Spine Systems

Description of the device:

The ALTUM Anterior Cervical Plate System is intended for anterior screw fixation of the plate to the cervical spine. The fixation construct consists of a cervical plate that is attached to the vertebral body of the cervical spine with self-tapping bone screws using an anterior approach. The ALTUM anterior cervical plate, screws and instruments were designed taking into consideration the whole procedure. Plates are available in a variety of lengths, addressing multiple levels of fixation. The ALTUM plate incorporates vision ports that allow visualization of post-operative endplate/graft incorporation. Alignment notches on the cephalad and caudal ends of the plate facilitate precise midline placement and allow for Temporary Pin fixation of the plate. To accommodate normal cervical spine lordosis and, at the same time, minimize the need for additional plate contouring, the ALTUM Anterior Cervical Plate comes with a pre-machined lordotic curve. Bone screws are available for fixed angle or variable angle implantation in a variety of lengths. Each screw head forms an autogenic lock to the plate upon insertion, requiring no additional locking mechanism.

Materials:

Ti-6Al-4V per ASTM F136

Function:

The ALTUM Anterior Cervical Plate system is indicated for use in the temporary stabilization of the anterior spine during the development of cervical spinal fusion.

Substantial equivalence claimed to predicate devices

ALTUM Anterior Cervical Plate system is substantially equivalent to the Envision² Anterior Cervical Plate System (K971730) and Spider Cervical Plating System (K052292) in terms of intended use, design, materials used, mechanical safety and performances. The table below compares the features and characteristics of the ALTUM Anterior Cervical Plate system to these predicate devices.

Device Name Items	ALTUM Anterior Cervical Plate	Envision ² Anterior Cervical Plate System	Spider Cervical Plating System
Sponsor	SpineCraft	Ortho Development	X-Spine Systems
510(k) Number	Current submission	K020649	K052292
Device Classification Name/Product Codes	Spinal intervertebral body fixation orthosis per 21 CFR 88.3060 KWQ	Spinal intervertebral body fixation orthosis per 21 CFR 88.3060 KWQ	Spinal intervertebral body fixation orthosis per 21 CFR 88.3060 KWQ
Classification	II	II	II
Material	Ti-6Al-4V per ASTM F136	Ti-6Al-4V per ASTM F136	Ti-6Al-4V per ASTM F136
# levels	multiple	multiple	multiple
Graft window	Yes	Yes	Yes
Variable angle screw	Yes	Yes	Yes
Fixed screw	Yes	Yes	Yes
Screw size	Ø4.0, Ø4.5mm variety of lengths	Ø4.0, Ø4.35mm variety of lengths	Ø4.0, Ø4.25mm variety of lengths
Pre-lordosed	Yes	Yes	Yes
Sterility	Non-sterile, sterilized at hospital	Non-sterile, sterilized at hospital	Non-sterile, sterilized at hospital

Figure (5)

Intended Use:

The ALTUM Anterior Cervical Plate System is intended for anterior screw fixation to the cervical spine. It is to be used in skeletally mature patients as an adjunct to fusion of the cervical spine (C2 to C7). The system is indicated for use in the temporary stabilization of the anterior spine during the development of cervical spinal fusion in patients with:

- degenerative disc disease (as defined by neck pain of discogenic origin with degeneration of the disc confirmed by patient history and radiographic studies),
- spondylolisthesis,
- trauma (i.e. fractures or dislocations),
- tumors,
- deformity,
- pseudarthrosis,
- failed previous fusion,
- spinal stenosis.

Non-clinical Test Summary:

The following tests were conducted:

ASTM F1717-09, "Standard Test Methods for Spinal Implant Constructs in a Vertebrectomy Model. Testing included Static Compression Bending Tests, Static Torsion Tests and Dynamic Compression Bending Tests. The results of this testing were compared to predicate systems, with the results being equal or higher than the predicate systems.

Clinical Test Summary

No clinical studies were performed

Conclusions Nonclinical and Clinical

The ALTUM Anterior Cervical Plate System is substantially equivalent to the predicate devices in terms of indications for use, design, material, and function.



Food and Drug Administration
10903 New Hampshire Avenue
Document Control Room W-O66-0609
Silver Spring, MD 20993-0002

SpineCraft, LLC
% Ms. Ami Akallal-Asaad
Director of Regulatory Affairs
2215 Enterprise Drive, Suite 1504
Westchester, Illinois 60154

MAR 15 2011

Re: K103505

Trade/Device Name: ALTUM Anterior Cervical Plate System
Regulation Number: 21 CFR 888.3060
Regulation Name: Spinal intervertebral body fixation orthosis
Regulatory Class: Class II
Product Code: KWQ
Dated: February 28, 2011
Received: March 01, 2011

Dear Ms. Akallal-Asaad:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you; however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21

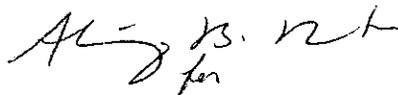
Page 2 – Ms. Akallal-Asaad

CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to <http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm> for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address <http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Mark N. Melkerson" with a stylized flourish at the end.

Mark N. Melkerson
Director
Division of Surgical, Orthopedic
and Restorative Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

A. Indication for Use Statement

510(k) Number (if known): K103505

Device Name: **ALTUM Anterior Cervical Plate System**

Indication for Use:

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- degenerative disc disease (as defined by neck pain of discogenic origin with degeneration of the disc confirmed by patient history and radiographic studies),
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- trauma (i.e. fractures or dislocations),
- tumors,
- deformity,
- pseudarthrosis,
- failed previous fusion,
- spinal stenosis.

Prescription Use X
(Part 21 CFR 801 Subpart D)

AND/OR

Over-The-Counter Use _____
(21 CFR 807 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE OF
NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)



(Division Sign-Off)
Division of Surgical, Orthopedic,
and Restorative Devices

510(k) Number K103505