



Food and Drug Administration
10903 New Hampshire Avenue
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Silver Spring, MD 20993-0002

Ortho Development Corporation
Ms. Lindsay Martin
Manager, Regulatory Affairs
12187 South Business Park Drive
Draper, Utah 84020

March 30, 2017

Re: K162995

Trade/Device Name: Ibis® Pedicle Screw System
Regulation Number: 21 CFR 888.3070
Regulation Name: Thoracolumbosacral pedicle screw system
Regulatory Class: Class II
Product Code: NKB
Dated: January 10, 2017
Received: January 11, 2017

Dear Ms. Martin:

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 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 contact the Division of Industry and Consumer Education 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>. 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 Industry and Consumer Education 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,

Mark N. Melkerson -S

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

Enclosure

Indications for Use

510(k) Number (if known)

K162995

Device Name

Ibis® Pedicle Screw System

Indications for Use (Describe)

The Ibis® Pedicle Screw System is intended to provide immobilization and stabilization of spinal segments in skeletally mature patients as an adjunct to fusion using autograft or allograft. This system is intended for posterior, non-cervical pedicle fixation of the thoracic, lumbar, and sacral/iliac spine (T1 – Sacrum/Ileum) for the following indications:

- 1) Degenerative disc disease (DDD) (defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies)
- 2) Degenerative Spondylolisthesis with objective evidence of neurologic impairment
- 3) Trauma (fracture or dislocation)
- 4) Spinal tumor
- 5) Failed previous fusion (pseudarthrosis)
- 6) Spinal stenosis
- 7) Spinal deformities or curvatures such as scoliosis, kyphosis, or lordosis

Type of Use (Select one or both, as applicable)

☒ Prescription Use (Part 21 CFR 801 Subpart D)

☐ Over-The-Counter Use (21 CFR 801 Subpart C)

PLEASE DO NOT WRITE BELOW THIS LINE – CONTINUE ON A SEPARATE PAGE IF NEEDED.

FOR FDA USE ONLY

Concurrence of Center for Devices and Radiological Health (CDRH) (Signature)

This section applies only to requirements of the Paperwork Reduction Act of 1995.

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510(k) Summary

Name of Sponsor: Ortho Development Corporation
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Draper, Utah 84020

510(k) Contact: Lindsay Martin
Manager, Regulatory Affairs
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Date Prepared: March 27, 2017

Proprietary Name: Ibis® Pedicle Screw System

Common Name: Thoracolumbosacral Pedicle Screw System

Classification: 21 CFR 888.3070

Device Product Code: NKB

Class: Class II

Primary Predicate Device: Ibis® Pedicle Screw System (K142146)
Ortho Development Corporation

Additional Predicate Devices: Pagoda® Pedicle Screw System (K131785)
Ortho Development Corporation

Additions to the EXPEDIUM® and VIPER® Systems (K101993)
Depuy Spine, Inc

Description

The Ibis® Pedicle Screw System consists of bulletted rods; cannulated polyaxial, monoaxial, extended length (Ibis® XL) and extended tab screws; and set screws; which can be variously assembled to provide immobilization of the thoracolumbar and lumbosacral spine. The Ibis® Pedicle Screw System maintains compatibility with the Pagoda Pedicle Screw System. All components are made from Titanium Alloy (Ti6Al4V).

Indications:

The Ibis® Pedicle Screw System is intended to provide immobilization and stabilization of spinal segments in skeletally mature patients as an adjunct to fusion using autograft or allograft. This system is intended for posterior, non-cervical pedicle fixation of the thoracic, lumbar, and sacral/ilium spine (T1 – Sacrum/Ilium) for the following indications:

1. Degenerative disc disease (DDD) (defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies)
2. Degenerative Spondylolisthesis with objective evidence of neurologic impairment
3. Trauma (fracture or dislocation)
4. Spinal tumor
5. Failed previous fusion (pseudarthrosis)
6. Spinal stenosis
7. Spinal deformities or curvatures such as scoliosis, kyphosis, or lordosis

Basis for Substantial Equivalence:

The Ibis® XL Cannulated Polyaxial Screws are a line extension of the Ibis® Pedicle Screw System and have the following similarities to those which previously received 510(k) concurrence (K142146):

- have the same indicated use,
- incorporate the same basic polyaxial ball-socket and screw thread design,
- incorporate the same materials,
- have the same interconnection components (set screw and 5.5mm bulleted rod),
- have the same shelf life, and
- are packaged and sterilized using the same materials and processes.

In summary, the Ibis® XL Cannulated Polyaxial Screws described in this submission are, in our opinion, substantially equivalent to the predicate device.

Nonclinical Test Summary:

The following mechanical tests were conducted:

- Static Compression Bending in accordance with ASTM F1717 "Standard Test Methods for Spinal Implant Constructs in a Vertebrectomy Model"
- Dynamic Compression Bending in accordance with ASTM F1717 "Standard Test Methods for Spinal Implant Constructs in a Vertebrectomy Model"
- Axial Torque Gripping Capacity in accordance with ASTM F1798 "Standard Test Method for Evaluating the Static and Fatigue Properties of Interconnection Mechanisms and Subassemblies Used in Spinal Arthrodesis Implants"

Conclusions:

Ibis® XL Cannulated Polyaxial Screw has substantially the same intended use, indications for use, materials, general dimensions, performance, and principles of operation as the predicate devices.