

April 23, 2020

Life Spine, Inc. Angela Batker RA/QA Manager 13951 S Quality Drive Huntley, Illinois 60142

Re: K200070

Trade/Device Name: ARx Spinal System Regulation Number: 21 CFR 888.3070

Regulation Name: Thoracolumbosacral Pedicle Screw System

Regulatory Class: Class II Product Code: NKB Dated: January 3, 2020 Received: January 13, 2020

Dear Angela Batker:

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. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database located at https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm identifies combination product submissions. 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 <u>Federal Register</u>.

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) for

devices or postmarketing safety reporting (21 CFR 4, Subpart B) for combination products (see https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

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 https://www.fda.gov/medical-device-problems.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance) and CDRH Learn (https://www.fda.gov/training-and-continuing-education/cdrh-learn). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

Colin O'Neill
Acting Assistant Director
DHT6B: Division of Spinal Devices
OHT6: Office of Orthopedic Devices
Office of Product Evaluation and Quality
Center for Devices and Radiological Health

Enclosure

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

Form Approved: OMB No. 0910-0120 Expiration Date: January 31, 2017 See PRA Statement below.

510(k) Number (if known)
K200070
Device Name
ARx Spinal System
ANA Spinut System
Indications for Use (Describe)
The ARx Spinal System, is intended for posterior pedicle screw fixation of the non-cervical posterior spine (T1 to S2/
ilium) in skeletally mature patients and for pediatric patients to treat adolescent idiopathic scoliosis. It provides
stabilization and immobilization of spinal segments as an adjunct to fusion in the treatment of acute and chronic
instabilities or deformities of the posterior thoracic, lumbar, and sacral spine. These devices are to be used with autograft
and/or allograft. Pediatric pedicle screw fixation is limited to a posterior approach. When used as a posterior spine
thoracic/lumbar system, the ARx Spinal System is indicated for one or more of the following: (1) degenerative disc
disease (is defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic
studies), (2) trauma (i.e. fracture or dislocation), (3) curvatures and spinal deformity (scoliosis, kyphosis, and/or lordosis),
(4) spinal tumor, (5) failed previous fusion (pseudarthrosis), (6) spinal stenosis, (7) spondylolisthesis.
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In order to achieve additional levels of fixation in skeletally mature patients, the ARx Spinal System 5.5/6.0 rod system
may be connected to the Solstice OccipitoCervicoThoracic Fixation System's 3.5mm rod.
Type of Use (Select one or both, as applicable)
Prescription Use (Part 21 CFR 801 Subpart D)

CONTINUE ON A SEPARATE PAGE IF NEEDED.

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510(k) Summary ARx Spinal System

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510(k) Contact: Angela Batker

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Date Prepared: March 19th, 2020

Trade Name: ARx Spinal System

Common Name: Thoracolumbosacral Pedicle Screw System

Classification: NKB CFR 888.3070, Class II

Primary Predicate: Life Spine Nautilus (K151196)

Additional Predicate: Life Spine ARx (K191575)

Device Description:

The ARx Spinal System consists of screws and longitudinal rods intended to provide temporary stabilization and immobilization following surgery to fuse a portion of the thoracic, lumbar, and/or sacral spine. The ARX Spinal System consists of an assortment of rods and screws. The bone screw, head, and taper lock are assembled together during manufacturing to create the ARX Spinal System screw assembly component. The ARX Spinal System implant components are made from titanium alloy (Ti-6Al-4V ELI) as described by ASTM F136 and Cobalt Chrome (Co-28Cr-6Mo) as described by ASTM F1537. Do not use any of the ARX Spinal System components with the components from any other system or manufacturer.

Indications for Use:

The ARx Spinal System, is intended for posterior pedicle screw fixation of the non-cervical posterior spine (T1 to S2/ilium) in skeletally mature patients and for pediatric patients to treat adolescent idiopathic scoliosis. It provides stabilization and immobilization of spinal

segments as an adjunct to fusion in the treatment of acute and chronic instabilities or deformities of the posterior thoracic, lumbar, and sacral spine. These devices are to be used with autograft and/or allograft. Pediatric pedicle screw fixation is limited to a posterior approach. When used as a posterior spine thoracic/lumbar system, the ARx Spinal System is indicated for one or more of the following: (1) degenerative disc disease (is defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies), (2) trauma (i.e. fracture or dislocation), (3) curvatures and spinal deformity (scoliosis, kyphosis, and/or lordosis), (4) spinal tumor, (5) failed previous fusion (pseudarthrosis), (6) spinal stenosis, (7) spondylolisthesis.

In order to achieve additional levels of fixation in skeletally mature patients, the ARx Spinal System 5.5/6.0 rod system may be connected to the Solstice OccipitoCervicoThoracic Fixation System's 3.5mm rod.

Technological Characteristics:

The ARx Spinal System is substantially equivalent to the predicate systems in terms of design, materials, indications for use and sizing.

Material:

This submission seeks clearance of a device made from titanium alloy (Ti-6Al-4V ELI) as described by ASTM F136 and cobalt chrome (Co-28Cr-6Mo) per ASTM 1537. This this is the same material used in the predicate devices.

Performance Data:

The ARx Spinal System was tested according to ASTM F1717 & F1798 includes: Static Axial Grip, Static Torsional Grip, Static Moment Bending, Static Axial Compression Bending, Static Torsion was presented to demonstrate substantial equivalence to the Life Spine Nautilus K151196.

Substantial Equivalence:

The ARx Spinal System was shown to be substantially equivalent to the predicate devices in indications for use, design, function, materials used and mechanical performance.

Conclusion:

The information presented demonstrates the substantial equivalency of The ARx Spinal System.