

May 2, 2022

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

Re: K220341

Trade/Device Name: ARx Modular Spinal System

Regulation Number: 21 CFR 888.3070

Regulation Name: Thoracolumbosacral pedicle screw system

Regulatory Class: Class II

Product Code: NKB Dated: April 5, 2022 Received: April 11, 2022

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,

for

Colin O'Neill, M.B.E. Assistant Director DHT6B: Division of Spinal 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)
K220341
Device Name
ARx Modular Spinal System
Indications for Use (Describe)
The ARx Modular 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 Modular 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.
-F
In order to achieve additional levels of fixation in skeletally mature patients, the ARx Modular 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.
CUNTINUE UN A BEFARATE PAGE IF NEEDED.

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

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510(k) Summary ARx® Modular Spinal System

Submitted By: Life Spine, Inc.

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510(k) Contact: Angela Batker

Life Spine, Inc.

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Telephone: 847-884-6117

Fax: 847-884-6118

Date Prepared: May 2nd, 2022

Trade Name: ARx Modular Spinal System

Regulation Name: Thoracolumbosacral Pedicle Screw System

Classification: NKB CFR 888.3070, Class II

Primary Predicate: Life Spine Centerline Modular Spinal System K183430

Additional Predicate: Life Spine ARx Spinal CoCr Pedicle Screw System K200070

Life Spine ARx BL CoCr Spinal Pedicle Screw System K203163

Life Spine Conquest Spinal System K080767

Device Description:

The ARx Modular Spinal System consists of an assortment of rods, modular screws, modular tulips, and offset connectors. The tulip head and taper lock are assembled during manufacturing to create the modular tulip assembly. The ARx Modular Spinal System implant components are made from titanium alloy (Ti- 6Al-4V ELI) as described by ASTM F136 and Cobalt Chrome (Co-28Cr-6Mo) per ASTM F1537.

All implants are intended for single use only and should not be reused under any circumstances. Do not use any of the ARx Modular Spinal System components with components from any other system or manufacturer.

Indications for Use:

The ARx Modular 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

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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 Modular 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 Modular Spinal System 5.5/6.0 rod system may be connected to the Solstice OccipitoCervicoThoracic Fixation System's 3.5mm rod.

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 Modular Spinal System was tested according to ASTM F1717, F1798 & F5436-01 includes: Static Axial Compression Bending Testing, Static Torsion, Dynamic Compression Bending Testing, Axial and Torsional Grip, Flexion-Extension and Tulip Head Dissociation was presented to demonstrate the substantial equivalency of the Life Spine Conquest Spinal System K080767.

Substantial Equivalence:

The ARx Modular 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 Modular Spinal System.