

December 22, 2020

Spinal Elements, Inc.
Julie Lamothe, Ph.D., MBA
Vice President of Regulatory Affairs
3115 Melrose Dr. Suite 200
Carlsbad, California 92010

Re: K202298

Trade/Device Name: Lucent® XP, Lucent® XP Curved

Regulation Number: 21 CFR 888.3080

Regulation Name: Intervertebral Body Fusion Device

Regulatory Class: Class II Product Code: MAX Dated: November 20, 2020

Received: November 25, 2020

Dear Dr. Lamothe:

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,

Brent L. Showalter, Ph.D.
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: 06/30/2020

See PRA Statement below.

K202298
Device Name Lucent® XP Curved
Indications for Use (Describe) Lucent® intervertebral body fusion devices are intended for spinal fusion procedures at one or two contiguous levels (L2-S1) in skeletally mature patients with degenerative disc disease (DDD). DDD is defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies. DDD patients may also have up to Grade 1 spondylolisthesis or retrolisthesis at the involved levels. These patients may have had a previous non-fusion spinal surgery at the involved spinal level(s).
These devices are intended to be used with supplemental spinal fixation systems that have been cleared for use in the lumbosacral spine (i.e., posterior pedicle screw and rod systems, anterior plate systems, and anterior screw and rod systems).
This device is intended to be used with autograft or allogenic bone graft comprised of cancellous and/or corticancellous bone graft. Patients must have undergone a regimen of at least six (6) months non-operative treatment prior to being treated with this device.
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)
CONTINUE ON A SEPARATE PAGE IF NEEDED.

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

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Spinal Elements, Inc. Premarket Notification –Lucent® Intervertebral Body Fusion Device

510(k) Summary Lucent® XP Curved

510(k) Number: K202298

I. SUBMITTER

Spinal Elements, Inc.

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Contact Information: Julie Lamothe

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Date Prepared: August 11, 2020

II. DEVICE

Proprietary Name Lucent® XP Curved

Regulation Name Intervertebral Body Fusion Device

Device Classification 21 CFR 888.3080 (Appliance, Fixation Spinal

Intervertebral Body)

Proposed Regulatory Class II
Device Product Code MAX

III.PURPOSE OF THIS 510K

This Traditional 510(k) seeks clearance for a line addition to Spinal Elements' Lucent XP intervertebral body fusion devices previously cleared under K182584. The additional sizes have identical indication for use and fundamental scientific technology as the predicate.

IV. DEVICE DESCRIPTION

The subject devices are intervertebral body fusion devices for use in lumbar spinal surgery. They may also be referred to as an interbody device or interbody cage. The devices are generally box-shaped with various holes throughout their design to allow for the placement of autograft or allogenic bone graft. The exterior of the devices have "teeth" or other generally sharp engagement members on the superior and inferior surfaces to help prevent the devices from migrating once they are surgically positioned.

Spinal Elements, Inc. Premarket Notification –Lucent® Intervertebral Body Fusion Device

The devices submitted herein may be manufactured from polyetheretherketone (PEEK) materials and titanium alloy (Ti-6Al-4V conforming to ASTM F 136 and ISO 5832-3 or ASTM F 1472) or PEEK material conforming to ASTM F 2026 with a plasma sprayed coating of commercially pure titanium (per ASTM F 1580) on their superior and inferior surfaces and titanium alloy (Ti-6Al-4V conforming to ASTM F 136 and ISO 5832-3 or ASTM F 1472). Because PEEK is radiolucent, tantalum (per ASTM F 560) pins are placed in various locations of the PEEK devices to serve as markers for radiographic visualization of device orientation.

V. INDICATION FOR USE

Lucent® intervertebral body fusion devices are intended for spinal fusion procedures at one or two contiguous levels (L2-S1) in skeletally mature patients with degenerative disc disease (DDD). DDD is defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies. DDD patients may also have up to Grade 1 spondylolisthesis or retrolisthesis at the involved levels. These patients may have had a previous non-fusion spinal surgery at the involved spinal level(s).

These devices are intended to be used with supplemental spinal fixation systems that have been cleared for use in the lumbosacral spine (i.e., posterior pedicle screw and rod systems, anterior plate systems, and anterior screw and rod systems).

This device is intended to be used with autograft or allogenic bone graft comprised of cancellous and/or corticancellous bone graft. Patients must have undergone a regimen of at least six (6) months non-operative treatment prior to being treated with this device.

VI. SUBSTANTIAL EQUIVALENCE

The subject devices are substantially equivalent in indications for use, surgical technique, design features, manufacturing methods and raw materials to the following predicate devices:

Lucent[®] devices (K182584): Primary Predicate Lucent[®] devices (K071724): Additional Predicate Lucent[®] devices (K113527): Additional Predicate

VII. COMPARISON OF TECHNOLOGICAL CHARACTERISTICS WITH THE PREDICATE DEVICE

The subject device is identical in manufacturing method, raw material, basic operating principles and fundamental scientific technology to the predicate devices cleared in K182584. The subject devices include additional sizes to the Lucent[®] XP devices. The devices will be marketed sterile and non-sterile. The specifications and manufacturing of the titanium coating is identical to that of the predicate devices cleared in K182584. The devices will be marketed with and without a plasma-sprayed porous titanium surface. The modifications do not raise any new issues of safety or effectiveness.

VIII. PERFORMANCE DATA

Biocompatibility Testing

The materials used to manufacture the subject devices as well as the manufacturing processes for the devices seeking clearance are identical as the materials and processes

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identified in previously cleared K182584 Lucent XP® submission. Biocompatibility testing is not required.

Electrical safety and electromagnetic compatibility (EMC)

No electrical and electromagnetic compatibility testing were performed.

Software Verification and Validation Testing

The device does not contain software. Therefore, no software verification and validation testing were performed.

Mechanical testing

The subject device has the same performance characteristics as the previously cleared predicate device K182584. Non-clinical testing was used to support the decision of substantial equivalence. Non-clinical testing consisted of the following testing performed in accordance with the FDA guidance Class II Special Controls Guidance Document: Intervertebral Body Fusion Device:

- Static Compression Testing per ASTM F 2077-18
- Dynamic Compression Testing per ASTM F 2077-18
- Static Compression Shear Testing per ASTM F 2077-18
- Dynamic Compression Shear Testing per ASTM F 2077-18

All data indicates that the device will perform as intended.

Animal Study

No animal studies were performed.

Clinical Studies

No clinical studies were performed.

VIIII. CONCLUSIONS

Based on the indications for use, technological characteristics, and comparison to predicate devices, the subject device has been shown to be substantially equivalent to the aforementioned predicate devices cleared by FDA for commercial distribution in the United States.