

January 13, 2023

Bright Spine % Bahram Parvinian Founder & Principal Consultant Lighthouse Regulatory Consulting Group 5801 Nicholson Lane, Apt. 1705 North Bethesda, Maryland 20852

Re: K221542

Trade/Device Name: Galileo Vertebral Body Replacement Device

Regulation Number: 21 CFR 888.3060

Regulation Name: Spinal Intervertebral Body Fixation Orthosis

Regulatory Class: Class II

Product Code: PLR

Dated: December 14, 2022 Received: December 19, 2022

Dear Bahram Parvinian:

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/training-and-continuing-education/cdrh-learn) 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,

Katherine D. Kavlock -S

for Brent 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: 06/30/2023
See PRA Statement below.

| Submission Number (if known) | | | | | | |
|---|--|--|--|--|--|--|
| K221542 | | | | | | |
| Device Name | | | | | | |
| Galileo Vertebral Body Replacement Device | | | | | | |
| Indications for Use (Describe) | | | | | | |
| When used as a single-level partial vertebral body replacement device, the Galileo™ devices are indicated for use in the cervical spine (C2-T1) of skeletally mature patients for the partial replacement (i.e., partial vertebrectomy) of a vertebral body resected or excised for the treatment of tumors, or trauma/fracture, or osteomyelitis, or to achieve decompression of the spinal cord and neural tissues in cervical degenerative disorders. The device is intended for use with autograft or allogenic bone graft comprising cancellous and/or corticocancellous bone graft. When the Galileo™ device is used as a single-level, partial vertebral body replacement device, supplemental fixation may be used. | | | | | | |
| 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.

DO NOT SEND YOUR COMPLETED FORM TO THE PRA STAFF EMAIL ADDRESS BELOW.

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Department of Health and Human Services Food and Drug Administration Office of Chief Information Officer Paperwork Reduction Act (PRA) Staff PRAStaff@fda.hhs.gov

"An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB number."

510(k) Summary: Galileo VBR
In accordance with 21 CFR 807.92 of the Federal Code of Regulations

| Date Prepared | May 5, 2022 | | | | |
|-----------------------------|--|--|--|--|--|
| Submitted By | Bright Spine LLC Robert Simonson t 561-289-9378 r@brightspine.com | | | | |
| Primary Contact | Bahram Parvinian PhD, Founder and Principal Consultant Lighthouse Regulatory Consulting Group LLC (301)938-7669 Bahram@lighthouseregulatory.com | | | | |
| Trade Name | Galileo Vertebral Body Replacement Device | | | | |
| Common Name | Vertebral body replacement device | | | | |
| Classification Name | Spinal intervertebral body fixation orthosis | | | | |
| Class | II | | | | |
| Product Code | PLR | | | | |
| CFR Section | 21 CFR section 888.3060 | | | | |
| Device Panel | Orthopedic | | | | |
| Primary Predicate Device | Galileo Vertebral Body Replacement Device (K192145) | | | | |
| Device Description | The Galileo Vertebral Body Replacement device is a surgical grade titanium (Ti-6A1-4V) device and is available in various widths and heights. It has openings of various sizes to allow for the placement of bone graft and for the free flow of cells between the bone graft and the bone of the patient. It is intended for partial vertebral body replacement in a single vertebra and to hold bone graft material. | | | | |
| Materials | Titanium (Ti-6A1-4V) | | | | |
| Intended Use | Partial cervical vertebral body replacement | | | | |

| Substantial Equivalence Claimed to Predicate Device | Galileo VBR is substantially equivalent to the predicate device in terms of intended use, design, materials used, mechanical safety and performances. | | | | | |
|--|--|-----------|------------|-----------|--|--|
| Indications for Use | When used as a single-level vertebral body replacement device, the Galileo TM devices are indicated for use in the cervical spine (C2-T1) of skeletally mature patients for the partial replacement (i.e., partial vertebrectomy) of a vertebral body resected or excised for the treatment of tumors, or trauma/fracture, or osteomyelitis, or to achieve decompression of the spinal cord and neural tissues in cervical degenerative disorders. The device is intended for use with autograft or allogenic bone graft comprising cancellous and/or corticocancellous bone graft. When the Galileo TM device is used as a single-level, partial vertebral body replacement device, supplemental fixation may be used | | | | | |
| Summary of the technological | Galileo VBR has the same intended use and Indications For Use as K192145. The Galileo VBR includes four additional sizes: | | | | | |
| characteristics compared to predicate | | A (width) | B (height) | C (depth) | | |
| | | 7 mm | 7 mm | 12 mm | | |
| | | 8 mm | 8 mm | 12 mm | | |
| | | 9 mm | 9 mm | 12 mm | | |
| | | 10 mm | 10 mm | 12 mm | | |
| | There were no changes made to the device design, materials, or manufacturing method. | | | | | |
| Non-clinical Test Summary | Mechanical performance tests were conducted following the ASTM F2077 (Test methods for intervertebral body fusion devices). All tests were passed. | | | | | |
| Clinical Test Summary | Not Applicable | | | | | |
| SE conclusion | The intended use and technological characteristics of Galileo VBR is the same as the identified predicate. The Galileo VBR has additional sizes compared to the predicate; however, these new device sizes do not result in new questions of safety and effectiveness. Based on the required design verification and validation activities, Galileo VBR is substantially equivalent to the identified predicate. | | | | | |