

January 10, 2020

Medtronic Sofamor Danek USA, Inc. Mr. Lee Grant Distinguished Regulatory Affairs Advisor 1800 Pyramid Place Memphis, Tennessee 38132

Re: K193011

Trade/Device Name: CD HorizonTM Fenestrated Screw Set

Regulation Number: 21 CFR 888.3070

Regulation Name: Thoracolumbosacral pedicle screw system

Regulatory Class: Class II Product Code: NKB Dated: October 28, 2019 Received: October 29, 2019

Dear Mr. Grant:

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

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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,

Ronald P. Jean, Ph.D.
Director (Acting)
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.

510(k) Number (if known)
K193011
Device Name CD Horizon TM Fenestrated Screw Set
Indications for Use (Describe) When used without cement, CD Horizon TM Fenestrated Screws (with or without Sextant TM or Longitude TM instrumentation) are intended for posterior, non-cervical fixation as an adjunct to fusion for the following indications: degenerative disc disease (DDD - defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies), spondylolisthesis, tumor and/or trauma (e.g. fracture or dislocation), spinal stenosis, curvatures (e.g. scoliosis, kyphosis, or lordosis), pseudarthrosis, and/or failed previous fusion. Additionally, CD Horizon TM Fenestrated Screws may be used for immobilization and stabilization when used for trauma (e.g., fracture or dislocation) with the usage of bone graft material left to the surgeon's discretion.
When used in conjunction with Medtronic HV-R TM Fenestrated Screw Cement or Kyphon TM Xpede TM Bone Cement, CD Horizon TM Fenestrated Screws are intended to restore the integrity of the spinal column even in the absence of fusion for a limited time in patients with advanced stage tumors involving the thoracic, lumbar, or sacral spine in whom life expectancy is of insufficient duration to permit achievement of fusion. CD Horizon TM Fenestrated Screws augmented with Medtronic HV-R TM Fenestrated Screw Cement or Kyphon TM Xpede TM Bone Cement are for use at spinal levels where the structural integrity of the spine is not severely compromised.
Type of Use (Select one or both, as applicable)

CONTINUE ON A SEPARATE PAGE IF NEEDED.

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

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.

The burden time for this collection of information is estimated to average 79 hours per response, including the time to review instructions, search existing data sources, gather and maintain the data needed and complete and review the collection of information. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden, to:

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."

Prescription Use (Part 21 CFR 801 Subpart D)

510(k) Summary K193011 January 3, 2020

I. Company: Medtronic Sofamor Danek USA, Inc.

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Principal Regulatory Affairs Specialist Telephone number: (901) 396-3133 Email: Shweta.s.sharma@medtronic.com

Proprietary Trade Name: CD HorizonTM Fenestrated Screw Set

Common Name: Bone Screw, Pedicle Screw

Classification Name/ Thoracolumbosacral pedicle screw system

Regulation Numbers/ 21 CFR 888.3070

Classification/ Class II **Classification Product** NKB

Code

II. Predicate Devices:

Primary Predicate:

CD HorizonTM Fenestrated Screw Set (K170347, S.E. 04/04/2017)

Additional Predicate:

CD HorizonTM Spinal System (K182119, S.E. 08/29/2018)

Additional Predicate:

CD HorizonTM Fenestrated Screw Set (K152604, S.E. 01/06/2016 and K191148, S.E. 09/12/2019)

The predicate devices have not been subject to a design-related recall.

III. Device Description:

CD HorizonTM Fenestrated Screw Set

The CD HorizonTM Fenestrated Screw Set consists of a variety of cannulated screws. These screws contain a series of fenestrations which allows polymethylmethacrylate (PMMA) bone cement (Medtronic HV-RTM Fenestrated Screw Cement or KyphonTM XpedeTM Bone Cement) to be injected into the treated site. This cement is used to augment screw fixation into the pedicle in patients whose life expectancy is of insufficient duration to permit achievement of fusion.

These implants may also serve as traditional pedicle screws when used without bone cement in patients. Please see Section IV for the complete Indications for Use.

CD HorizonTM Fenestrated Screws are specifically designed to connect to appropriate rods and associated connecting components contained within the CD HorizonTM Spinal System. Refer to the CD HorizonTM Spinal System package insert for information regarding those implants. Care should be taken so the correct components are used in the spinal construct. CD HorizonTM Fenestrated Screw Set implant components are fabricated from medical grade titanium and/or medical grade titanium alloy and/or medical grade cobalt-chromium-molybdenum alloy. Never use stainless steel and titanium implant components in the same construct.

To achieve best results, do not use CD Horizon[™] Fenestrated Screw implants with components from any system other than the CD Horizon[™] Spinal System. As with all orthopedic and neurosurgical implants, CD Horizon[™] Fenestrated Screw implants should never be reused under any circumstances.

IV. Indications for Use:

CD HorizonTM Fenestrated Screw Set

When used without cement, CD HorizonTM Fenestrated Screws (with or without SextantTM or LongitudeTM instrumentation) are intended for posterior, non-cervical fixation as an adjunct to fusion for the following indications: degenerative disc disease (DDD - defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies), spondylolisthesis, tumor and/or trauma (e.g., fracture or dislocation), spinal stenosis, curvatures (e.g., scoliosis, kyphosis, or lordosis), pseudarthrosis, and/or

failed previous fusion. Additionally, CD Horizon[™] Fenestrated Screws may be used for immobilization and stabilization when used for trauma (e.g., fracture or dislocation) with the usage of bone graft material left to the surgeon's discretion.

When used in conjunction with Medtronic HV-RTM Fenestrated Screw Cement or KyphonTM XpedeTM Bone Cement, CD HorizonTM Fenestrated Screws are intended to restore the integrity of the spinal column even in the absence of fusion for a limited time in patients with advanced stage tumors involving the thoracic, lumbar, or sacral spine in whom life expectancy is of insufficient duration to permit achievement of fusion. CD HorizonTM Fenestrated Screws augmented with Medtronic HV-RTM Fenestrated Screw Cement or KyphonTM XpedeTM Bone Cement are for use at spinal levels where the structural integrity of the spine is not severely compromised.

V. Comparison of the Technological Characteristics with the Predicate Device:

CD HorizonTM Fenestrated Screw Set devices have the same fundamental scientific technology; indications for use, intended use, design, material, levels of attachment as the predicate device. The CD HorizonTM Fenestrated Screw Set devices are intended to help provide immobilization and stabilization of spinal segments of the thoracic, and lumbar, or sacral spine for the indications stated above. The purpose of this submission is to expand the CD HorizonTM Fenestrated Screw Set current indications for use to include treatment of trauma (e.g., fracture or dislocation), with the usage of bone graft material left to the surgeon's discretion.

VI. Performance Data:

Published performance outcomes were provided in support of this application. This clinical data supports the use of CD HorizonTM Fenestrated Screw Set for treatment of trauma patients (e.g., fracture or dislocation), with the usage of bone graft material left to the surgeon's discretion. No changes were made to the existing devices, nor were any new components added to the system. Therefore, no additional testing was required or performed.

VII. Conclusion

Based upon the supporting documentation provided in the pre-market notification for the CD HorizonTM Fenestrated Screw Set, the modification to the trauma indication with usage of graft material left to the surgeon's discretion, has been demonstrated to be substantially equivalent to the cited predicate.