

October 19, 2020

Medtronic Raphael McInnis Sr. Manager, Regulatory Affairs 1800 Pyramid Pl Memphis, Tennessee 38132

Re: K202771

Trade/Device Name: CD HorizonTM Spinal System

Regulation Number: 21 CFR 888.3070

Regulation Name: Thoracolumbosacral Pedicle Screw System

Regulatory Class: Class II

Product Code: NKB, KWP, KWQ

Dated: September 18, 2020 Received: September 21, 2020

Dear Mr. McInnis:

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 and Part 809; 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). 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) 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
Assistant Director
Division of Spinal Devices
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.

510(k) Number (if known)		
K202771		
Device Name CD Horizon Spinal System		
Indications for Use (Describe)		

The CD Horizon™ Spinal System with or without Sextant™ instrumentation is 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, trauma (i.e. fracture or dislocation), spinal stenosis, curvatures (i.e. scoliosis, kyphosis, or lordosis), tumor, pseudarthrosis, and/or failed previous fusion.

Except for hooks, when used as an anterolateral thoracic/lumbar system, the CD HorizonTM Spinal System titanium, cobalt chrome, and stainless steel implants may also be used for the same indications as an adjunct to fusion. With the exception of DDD, the CD HorizonTM LegacyTM 3.5mm rods and associated components may be used for the aforementioned indications in skeletally mature patients as an adjunct to fusion. The 3.5mm rods may be used for the specific pediatric indications noted below.

When used for posterior non-cervical pedicle screw fixation in pediatric patients, the CD Horizon™ Spinal System titanium, cobalt chrome, and stainless steel implants are indicated as an adjunct to fusion to treat progressive spinal deformities (i.e. scoliosis, kyphosis, or lordosis) including idiopathic scoliosis, neuromuscular scoliosis, and congenital scoliosis. Additionally, the CD Horizon™ Spinal System is intended to treat pediatric patients diagnosed with the following conditions: spondylolisthesis/spondylolysis, fracture caused by tumor and/or trauma, pseudarthrosis, and/or failed previous fusion. These devices are to be used with autograft and/or allograft. Pediatric pedicle screw fixation is limited to a posterior approach.

The CD HorizonTM PEEK rods are intended to provide posterior supplemental fixation when used with an interbody fusion cage for patients diagnosed with DDD. These DDD patients may also have up to Grade 1 spondylolisthesis or retrolisthesis at the involved level. This device is intended for 1-2 level use in the lumbosacral spine (L2 – S1) in skeletally mature patients. The device is intended for use with an interbody fusion cage at the instrumented level and is not intended for stand-alone use.

The CD Horizon™ Spire™ plate is a posterior, single-level, non-pedicle supplemental fixation device intended for use in the non-cervical spine (T1-S1) as an adjunct to fusion in skeletally mature patients. It is intended for plate fixation/ attachment to spinous processes for the purpose of achieving supplemental fixation in the following conditions: DDD (as previously defined), spondylolisthesis, trauma, and/or tumor.

In order to achieve additional levels of fixation, the CD HorizonTM Spinal System rods may be connected to the VertexTM

CONTINUE ON A SEPARATE PAGE IF NEEDED.				
Prescription Use (Part 21 CFR 801 Subpart D)	Over-The-Counter Use (21 CFR 801 Subpart C)			
Type of Use (Select one or both, as applicable)				
a list of the Vertex [™] indications of use.	, ,			
Reconstruction System with the Vertex TM rod connector. Refe	r to the Vertex TM Reconstruction System package insert for			

510(k) SUMMARY

$\begin{array}{c} \textbf{MEDTRONIC} \\ \textbf{CD Horizon}^{\text{TM}} \ \textbf{Spinal System} \end{array}$

September 2020

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N CD :	CD II . TM C . 10
Name of Device	CD Horizon™ Spinal System
C N	
Common Name	Spinal Fixation Appliance, Spinal Fixation Orthosis
Classification Name	NKB, KWP, KWQ
Classification	Class II
Product Codes	NKB, KWP, KWQ
	21 CFR 888.3070 - Thoracolumbosacral Pedicle Screw System
	21 CFR 888.3060 - Spinal intervertebral body fixation orthosis
	21 CFR 888.3050 - Spinal interlaminal fixation orthosis
Predicate Devices	Primary Predicate:
	CD Horizon Spinal System (K113174, S.E. 11/21/2011)
	Secondary Predicates:
	PASS LP Spinal System (K140738, S.E. 11/04/2014)
	CD Horizon TM Spinal System (K042025, S.E. 08/25/2004)
	CD Horizon™ Spinal System (K201407, S.E. 09/10/2020)
	The predicates have not been subject to a design related recall.
Description of Devices	The CD Horizon TM Spinal System consists of a variety of shapes
	and size of rods, hooks, screws, CROSSLINK(R) Plates, staples,
	and connecting components, and well as implant components from
	other Medtronic spinal systems, which can be rigidly locked into a

variety of configurations, with each construct being tailor-made for the individual case.

The purpose of this submission is to allow the use of the patient specific UNiD Rods cleared as a part of the PASS LP Spinal System with the CD Horizon™ Spinal System to allow additional surgeon options.

The CD Horizon™ Spinal System with or without Sextant™ instrumentation is 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, trauma (i.e. fracture or dislocation), spinal stenosis, curvatures (i.e. scoliosis, kyphosis, or lordosis), tumor, pseudarthrosis, and/or failed previous fusion.

Except for hooks, when used as an anterolateral thoracic/lumbar system, the CD HorizonTM Spinal System titanium, cobalt chrome, and stainless steel implants may also be used for the same indications as an adjunct to fusion.

With the exception of DDD, the CD Horizon[™] Legacy[™] 3.5mm rods and associated components may be used for the aforementioned indications in skeletally mature patients as an adjunct to fusion. The 3.5mm rods may be used for the specific pediatric indications noted below.

Indications for Use

When used for posterior non-cervical pedicle screw fixation in pediatric patients, the CD HorizonTM Spinal System titanium, cobalt chrome, and stainless steel implants are indicated as an adjunct to fusion to treat progressive spinal deformities (i.e. scoliosis, kyphosis, or lordosis) including idiopathic scoliosis, neuromuscular scoliosis, and congenital scoliosis.

Additionally, the CD HorizonTM Spinal System is intended to treat pediatric patients diagnosed with the following conditions: spondylolisthesis/ spondylolysis, fracture caused by tumor and/or trauma, pseudarthrosis, and/or failed previous fusion. These devices are to be used with autograft and/or allograft. Pediatric pedicle screw fixation is limited to a posterior approach.

The CD Horizon™ PEEK rods are intended to provide posterior supplemental fixation when used with an interbody fusion cage for patients diagnosed with DDD. These DDD patients may also have up to Grade 1 spondylolisthesis or retrolisthesis at the involved

	level. This device is intended for 1-2 level use in the lumbosacral spine $(L2-S1)$ in skeletally mature patients. The device is intended for use with an interbody fusion cage at the instrumented level and is not intended for stand-alone use.
	The CD Horizon TM Spire TM plate is a posterior, single-level, non-pedicle supplemental fixation device intended for use in the non-cervical spine (T1-S1) as an adjunct to fusion in skeletally mature patients. It is intended for plate fixation/attachment to spinous processes for the purpose of achieving supplemental fixation in the following conditions: DDD (as previously defined), spondylolisthesis, trauma, and/or tumor.
	In order to achieve additional levels of fixation, the CD Horizon TM Spinal System rods may be connected to the Vertex TM Reconstruction System with the Vertex TM rod connector. Refer to the Vertex TM Reconstruction System package insert for a list of the Vertex TM indications of use.
	When used with the PASS LP Spinal System UNiD Rods, the CD Horizon Spinal System have the same fundamental scientific technology, indications for use, intended use, materials, and levels of attachment as the predicate CD Horizon TM Spinal System devices.
Comparison of	devices.
Technological	The difference between the primary predicate and subject devices
Characteristics with the Predicate Devices	is that rods used with the predicate CD Horizon TM Spinal System are cut and bent by the surgeon based on the need of the individual case, while the PASS LP Spinal System UNiD Rods are directly adapted to a unique patient. However, both the subject and predicate systems are intended to help provide immobilization and stabilization of spinal segments as an adjunct to fusion of the thoracic, lumbar, or sacral spine.
	In accordance with the Guidance for Industry and FDA Staff – Spinal System 510(k)'s, Medtronic has evaluated the subject devices to demonstrate substantial equivalence to the predicate devices.
Performance Data	Rationales were provided confirming that the use of the PASS LP Spinal System UNiD Rods did not introduce a new worst case when used with the subject CD Horizon TM Spinal System. However, confirmatory testing in accordance with ASTM F1717 (static and dynamic compression bending and static torsion) and ASTM F1798 (static axial grip, static flexion extension, and

	dynamic flexion extension) was provided and met the pre-	
	determined acceptance criteria. Therefore, Medtronic believes	
	that the testing confirmed that the subject devices are substantially	
	equivalent to the predice devices.	
Conclusion	Based on the test results and additional supporting information	
	provided in this premarket notification, Medtronic believes the	
	subject CD Horizon TM Spinal System devices when used with the	
	PASS LP Spinal System Patient Specific Rods are at least as safe	
	as and effective as the legally marketed predicate devices.	