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MEDTRONIC Sofamor Danek PYRAMID® +4 Anterior Lumbar Plate System 510(k) Summary May 2007

I. Company:

Medtronic Sc famor Danek, Inc.

1800 Pyramid Place

Memphis, Tennessee 38132

(901) 396-3133

Contact:

Christine Scieert, Regulatory Affairs Group Director

II. Product Name:

PYRAMID® +4 Anterior Lumbar Plate System

Classification Name:

Spinal Inter aminal Fixation Orthosis

Class II

Product Cocle: KWO

21 CFR:

888.3060

ANTERIOR PLATE System. The predicate system will be renamed the PYRAMID® +4 ANTERIOR LUMBAR PLATE System. Like its predicate counterpart, the subject device is intended for use as an anterior fixation device to supplement an anterior lumbar interbody fusion. The variety of the PYRAMID® +4 ANTERIOR LUMBAR PLATE System provides surgeons with options in the placement of the device to avoid interference with the vasculature, while still allowing for fixation. The PYRAMID® +4 ANTERIOR LUMBAR PLATE components are made of titanium alloy.

IV. Indications for Use: The Medtronic Spfamor Danek PYRAMID® +4 ANTERIOR LUMBAR PLATE System is indicated for use as an anteriorly placed supplemental fixation device for the lumbosacral level below the bifurcation of the vascular structures or as an or anteriorly lateral placed supplemental fixation device for the L1 – L5 region.

When properly used, this system will help provide temporary stabilization until a solid spinal fusion develops. Specific indications include: 1) Degenerative disc disease (as defined by back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies); 2) Pseudoarthrosis; 3) Spondylolysis; 4) Spondylolisthesis; 5)Fracture; 6) Neo plastic disease; 7) Unsuccessful previous fusion surgery; 8) Lordotic deformities of the spine; 9) Idiopathic thoracolumbar or lumbar scoliosis; 10) Deformity (i.e., scoliosis, lordosis, and/or kyphosis) associated with deficient posterior elements such as that resulting from laminectomy, spina bifida, or myelomenigocele; and/or 11) Neuromuscular deformity (i.e., scoliosis, lordosis, and / or kyphosis) associated with pelvic obliquity.

V. <u>Substantial Equivalence</u>: Documentation, including mechanical test results, provided has demonstrated that the PYRAMID® +4 Anterior Lumbar Plate System is substantially equivalent to similar previously cleared devices such as the PYRAMID® Anterior Plate Fixation System (K010665, 12/29/2002) and the XANTUS® Anterior Lateral Supplemental Fixation System (K022070, SE 07/22/02).

PYRAMID® +4 ANTERIOR I UMBAR PLATE System 510(k) APPLICATION

NOTICE

The enclosed materials and descriptions contain information, which is trade secure or confidential under 21 CFR 20.61 and not disclosable to the public under the Freedom of Information Act (FOIA). If you are not able to assure us that the enclosed information will not be disclosed to the public, we request that this submission be handled by FDA in accordance with 21 CFR 20.44 relating to presubmission reviews. Consequently, until you hear otherwise from us, we ask hat you keep our application for this device confidential. We consider this premarket notification confidential commercial information. If we disclose this application to anyone except consultants or employees, we will notify the FDA.

I. Submitter Information

Medtronic Sofamor Danek USA, Inc.

1800 Pyramid Place

Memphis, Tennessee 38132

Telephone:

901-396-3133

Telefax:

901-346-9738

Contact:

Christine Scifert

Director, Regulatory Affairs

Manufacturing Facilities

Warsaw Orthopedic, Inc. (also known as) Medtronic Sofamor Danek Manufacturing, Inc. 2500 Silveus Crossing

Warsaw, Indiana 46582 Telephone: 219-267-6826

Medtronic Puerto Rico Operations Co., med Rel

Road 909, KM.0.4 Barrio Mariana Humacao, PR 00792

Device Name

Common or Usual Name:

Metallic Bene Fixation Appliance

Proposed Proprietary

or Trade Name;

PYRAMIC™ +4 ANTERIOR LUMBAR PLATE System

Classification Name:

Spinal Intellaminal Fixation Orthosis

Establishment Registration Number

1030489 Medtronic Sofamor Danek USA, Inc.

1824199 Warsaw Orthopedic (also known is) Medtronic Sofamor Danek

Manufacturing (For reference onl /)

2647346 Medtronic Puerto Rico Operation : Co.

Classification

Class II - 21 CFR 888.3060 (Orthopedic OR 87)

Product Code - KWQ

Performance Standards (FD&C Act Section 514)

We are unaware of any performance standards for this device.

800000

DEPARTMENT OF HEALTH & HUMAN SERVICES



NOV - 1 2007

Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

Medtronic Sofamor Danek, Inc. % Ms. Christine Scifert Regulatory Affairs Group Director 1800 Pyramid Place Memphis, TN 38132

Re: K071416

Trade/Device Name: Pyramid® +4 Anterior Lumbar Plate System

Regulation Number: 21 CFR 888.3060

Regulation Name: Spinal intervertebral body fixation orthosis

Regulatory Class: II Product Code: KWQ

Dated: September 25, 2007 Received: September 26, 2007

Dear Ms. Scifert:

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. 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.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such 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); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Page 2 – Ms. Christine Scifert

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Center for Devices and Radiological Health's (CDRH's) Office of Compliance at (240) 276-0120. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding postmarket surveillance, please contact CDRH's Office of Surveillance and Biometric's (OSB's) Division of Postmarket Surveillance at (240) 276-3474. For questions regarding the reporting of device adverse events (Medical Device Reporting (MDR)), please contact the Division of Surveillance Systems at (240) 276-3464. You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at toll-free number (800) 638-2041 or (240) 276-3150 or the Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Market Markets Marke

Mark N. Melkerson

Director

Division of General, Restorative and Neurological Devices Office of Device Evaluation Center for Devices and Radiological Health

Enclosure

510(k) Number (if known): K071416

Indications for Use

Device Name. Fyramid +4 An	retion rumpar	riate System
Indications For Use:		
PLATE Fixation System is fixation device for the	s indicated fo lumbosacral l ular structure	evel, anterior below the s or laterally above the
When properly used, this stabilization until a so indications include: 1) back pain of discogenic confirmed by history and Pseudoarthrosis; 3) Spon 5) Fracture; 6) Neoplastifusion surgery; 8) Lordo Idiopathic thoracolumbar (i.e., scoliosis, lordos deficient posterior elementaminectomy, spina bificon Neuromuscular deformity kyphosis) associated with	Degenerative origin with de radiographic dylolysis; 4) ic disease; 7) otic deformic or lumbar scass, and/or kyments such as da, or myelome (i.e., scolio	sion develops. Specific disc disease (as defined by egeneration of the disc studies); 2) Spondylolisthesis; Unsuccessful previous ties of the spine; 9) oliosis; 10) Deformity phosis) associated with that resulting from nigocele; and/or 11) sis, lordosis, and/or
Prescription Use X (Part 21 CFR 801 Subpart D)	AND/OR	Over-The-Counter Use(21 CFR 807 Subpart C)
(PLEASE DO NOT WRITE BE NEEDED)	LOW THIS LINE-C	CONTINUE ON ANOTHER PAGE IF
Concurrence of C	(Division Sign-Of Division of Generand Neurological 510(k) Number_	al, Restorative,