Special 510(k) Summary of Safety and Effectiveness: TRIO+ Spinal System - Line Extension

Proprietary Name:

TRIO+ Spinal Fixation System

APR 12 2010

Common Name:

Spinal Fixation Appliances

Classification Name and Reference:

1) Pedicle Screw Spinal System, 21 CFR §888.3070 (b) (1) & (b) (2)

2) Spinal Intervertebral Body Fixation Orthosis, 21 CFR §888.3060

Device Product Code:

NKB, MNH, MNI

Proposed Regulatory Class:

Class III

For Information contact:

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Date Summary Prepared:

April 9, 2010

Predicate Devices

Stryker Spine TRIO Spinal Fixation System, K052971;

Stryker Spine TRIO and TRIO+ Spinal Systems,

K062698, K070368.

Medtronic Sofamor Danek TSRH Spinal System,

K020699, K021170.

Description of Device Modification

This 510(k) is intended to introduce a line extension to the existing TRIO+ Spinal System. The line extension consists of additional lengths for the 4.5 mm diameter and 5.5 mm diameter standard post screws.

Intended Use

The TRIO+ Spinal Fixation System is intended for posterior, noncervical pedicle and non-pedicle fixation to provide immobilization and stabilization of spinal segments in skeletally mature patients 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, and/or lordosis);
- Tumor;
- Pseudoarthrosis; and
- Failed previous fusion.

The Stryker Spine TRIO+ Spinal Fixation System is intended to be used in conjunction with the OSS/DIAPASON or Opus Rods, Xia pre-bent rods and the Multi-Axis Cross Connector.

Summary of the Technological Characteristics

The Stryker Spine TRIO+ Spinal Fixation System, with the incorporation of the subject components, is substantially equivalent to the predicate devices in terms of material, design, and indications for use. Engineering analysis was completed for the subject screw components and demonstrates equivalence to the predicate product as well as compliance with FDA's Guidance for Spinal System 510(k)'s May 3, 2004.

DEPARTMENT OF HEALTH & HUMAN SERVICES



Food and Drug Administration 10903 New Hampshire Avenue Document Control Room W-066-0609 Silver Spring, MD 20993-0002

Stryker Spine % Mr. Curtis D. Truesdale Regulatory Affairs Project Manager 2 Pearl Court Allendale, New Jersey 07401 APR 1 2 2010

Re: K100737

Trade/Device Name: TRIO® Plus Spinal Fixation System

Regulation Number: 21 CFR 888.3070

Regulation Name: Pedicle screw spinal system

Regulatory Class: Class III

Product Code: NKB, MNI, MNH

Dated: March 01, 2010 Received: March 15, 2010

Dear Mr. Truesdale:

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. 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)

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CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); 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.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please go to http://www.fda.gov/AboutFDA/CentersOffices/CDRH/CDRHOffices/ucm115809.htm for the Center for Devices and Radiological Health's (CDRH's) Office of Compliance. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours.

Mark N. Melkerson

Director

Division of Surgical, Orthopedic

And Restorative Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

Indications for Use

		, 101 050
510(k) Number (if known): 🛕	100737	
Device Name: TRIO+ Spinal Fixation System Line Extension - Additional Screws		
Indications for Use:		
pedicle and nonpedicle fixation	n of the spine to p	em is intended for posterior, noncervical provide immobilization and stabilization as an adjunct to fusion for the following
	c confirmed by h r dislocation); sis, kyphosis, and	ack pain of discogenic origin with istory and radiographic studies); l/or lordosis);
The TRIO+ Spinal Fixation Sy OSS/DIAPASON or Opus Roc	stem is intended ls, Xia pre-bent r	to be used in conjunction with the ods and the Multi-Axia Cross Connector.
Prescription Use <u>X</u>	AND/OR	Over-The-Counter Use
(21 CFR 801 Subpart D)		(21 CFR 807 Subpart C)
PLEASE DO NOT WRITE BELOW	V THIS LINE – COI	NTINUE ON ANOTHER PAGE IF NEEDED)
Concurrence	of CDRH, Office of	Device Evaluation (ODE)
(Division Sign-Off)		
Division of Surgical, Ortleand Restorative Devices		

510(k) Number K100737