

K102907



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DEC 14 2010

PS 1/2

**510(k) Summary and Certification**

[As required by 21 CFR 807.92(c)]

**1. Submitter / Contact Person / Date of Preparation**

<b>Submitter</b>	Zyga Technology, Inc. 700 10th Ave South, Suite 400 Minneapolis, MN 55415-1745
<b>Contact Person</b>	Diane Brinza Director of Reg/Clin/QA Ph. 612.455.1061, ext. 104 Fax. 612.455.1064
<b>Date of Preparation</b>	September 30, 2010

**2. General Information**

<b>Trade Name</b>	SiMmetry™ Sacroiliac Joint Fusion System
<b>Common / Usual Name</b>	Fixation device/ Bone Screw
<b>Classification Name</b>	Smooth or threaded metallic bone fixation fastener
<b>Classification</b>	Class II (per 21 CFR § 888.3040)
<b>Manufacturer</b>	Zyga Technology, Inc. 700 10th Ave South, Suite 400 Minneapolis, MN 55415-1745
<b>Identification of Predicate Devices</b>	<ul style="list-style-type: none"> <li>• K021932 Synthes (USA) Synthes 6.5mm Cannulated Screw</li> <li>• K051296 DePuy Spine, Inc. SIJF Cannulated Screw System</li> <li>• K092375 SI-Bone, Inc. SI Joint Fusion System</li> </ul>
<b>Device Description</b>	The SiMmetry Sacroiliac Joint Fusion System consists of cannulated screws available in titanium having diameters ranging from 6.5mm-12.5mm; and lengths of 30mm-70mm.
<b>Intended Use / Indications for Use</b>	The SiMmetry Sacroiliac Joint Fusion System is intended for fixation of large bones, including bones of the pelvis, for conditions including degenerative sacroiliitis and sacroiliac joint disruptions.
<b>Technological Characteristic</b>	The principle of operation of the subject devices is identical to that of the identified predicates. A review of the test data for the subject devices indicates that

	they are equivalent to predicate devices that are currently commercially marketed. The subject devices are capable of withstanding expected loading without failure.
<b>Materials</b>	The subject devices are manufactured from Titanium Alloy (Ti-6Al-4V ELI).
<b>Technological Comparison</b>	The SIMmetry Sacroiliac Joint Fusion System technological characteristics do not raise any new questions of safety or effectiveness. Performance data measured against the K021932 Synthes 6.5mm Cannulated Screw predicate device demonstrates that the SIMmetry Sacroiliac Joint Fusion System is as safe and effective as predicate devices.
<b>Summary of Non-clinical Performance Data</b>	Results for mechanical testing for axial pull out strength, driving torque, static bend strength and bending fatigue strength demonstrates the SIMmetry Sacroiliac Joint Fusion System is substantially equivalent with respect to mechanical performance of the K021932 Synthes 6.5mm Cannulated Screw predicate device. Also, the test results establish that the SIMmetry Sacroiliac Joint Fusion System provides the necessary rigidity to support the intended use.
<b>Conclusion</b>	Equivalence for the SIMmetry Sacroiliac Joint Fusion System is based on the similarity in indications for use, design features, operational principles, and material composition and mechanical performance when compared to the predicate devices cleared under the following submissions: <ul style="list-style-type: none"> <li>• K021932 Synthes 6.5mm Cannulated Screw</li> <li>• K051296 DePuy 6.5mm and 8.0mm SIJF Cannulated Screw System</li> <li>• K092375 SI Joint Fusion System</li> </ul>



Food and Drug Administration  
10903 New Hampshire Avenue  
Document Control Room –WO66-G609  
Silver Spring, MD 20993-0002

APR - 7 2011

Zyga Technology, Inc.  
% Ms. Diane Brinza  
Director of Regulatory, Clinical and Quality Assurance  
700 10<sup>th</sup> Avenue South, Suite 400  
Minneapolis, Minnesota 55415

Re: K102907

Trade/Device Name: SIMmetry™ Sacroiliac Joint Fusion System  
Regulation Number: 21 CFR 888.3040  
Regulation Name: Smooth or threaded metallic bone fixation fastener  
Regulatory Class: Class II  
Product Code: OUR  
Dated: December 3, 2010  
Received: December 6, 2010

Dear Ms. Brinza:

This letter corrects our substantially equivalent letter of December 14, 2010.

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.

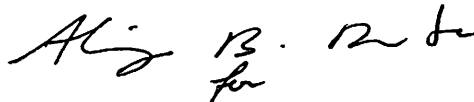
If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

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); 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" (21 CFR 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,

A handwritten signature in black ink, appearing to read "Mark N. Melkerson". The signature is written in a cursive style with some initials and a surname.

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 STATEMENT**

510(k) Number (if known): 102907

**Device Name:** SIMmetry™ Sacroiliac Joint Fusion System


**Indications For Use:** The SIMmetry™ Sacroiliac Joint Fusion System is intended for fixation of large bones, including bones of the pelvis, for conditions including degenerative sacroiliitis and sacroiliac joint disruptions.

Prescription Use  AND/OR Over-The-Counter Use   
(Part 21 CFR 801 Subpart D) (21 CFR 801 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE OF NEEDED)

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Concurrence of CDRH, Office of Device Evaluation (ODE)

 for W. Mellerson  
(Division Sign-Off)  
Division of Surgical, Orthopedic,  
and Restorative Devices

510(k) Number K102907