KO81849

Premarket Notification Special 510(k)
Blackstone Medical, Inc.
PILLAR SA PEEK Spacer System
System Modification

AUG 2 8 2008

510(K) SUMMARY

Blackstone Medical, Inc.

1211 Hamburg Turnpike

Suite 300

Wayne, NJ 07470

Registration Number: 3004606875

Contact Person: Whitney G. Törning, Senior Director of Regulatory Affairs &

Quality Assurance

Telephone Number:

973.406.2838 973.406.2938

Fax Number: Email:

Sponsor:

wtorning@blackstonemedical.com

Submitter: Martin G. Sprunck

Regulatory Affairs Manager

Manufacturer: Blackstone Medical, Inc.

90 Brookdale Drive Springfield, MA 01104

Registration Number: 1225457

Trade Name: Blackstone PILLAR™ SA PEEK Spacer System

Common Names: Intervertebral Body Fusion Device

Spinal Partial Vertebral Body Replacement Device

Classification Class II

Device Product Codes: MAX – Intervertebral Fusion Device with Bone Graft, Lumbar

MQP - Spinal Vertebral Body Replacement Device

Regulation Numbers: 888.3080 – Intervertebral Body Fusion Device

888.3060 – Spinal Intervertebral Body Fixation Orthosis

Substantially Equivalent Devices:

- Blackstone Medical, Inc. Construx PL/TL Partial VBR Spacers (K060350 SE 2-24-06)
- Blackstone Medical, Inc. Construx Mini (K051246 SE 6-14-05)
- Blackstone Medical, Inc. PILLAR Spacer System (K081177 SE 7-23-08)
- Surgicraft, Ltd. STALIF TT (K041617 SE 9-8-04 and K051027 SE 6-29-05)
- Surgicraft, Ltd., STALIF TT Intervertebral Body Fusion System (K073109 SE 6-4-08)
- Medtronic Sofamor Danek, Intrepid Spinal System (K080083 SE 4-10-08)

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Device Description:

The Blackstone Medical, Inc. PILLAR SA PEEK Spacer System is comprised of a variety of implants manufactured from Polyetheretherketone (PEEK-OPTIMA® LT1), as described by ASTM F-2026, with tantalum markers as described by ASTM F-560. The implants are available in multiple footprint sizes, and a variety of heights and angles of lordosis. The implants incorporate integrated anterior screw holes to allow for medial placement of titanium screws that anchor to the vertebrae, as well as a titanium plate for securing the screws once in place. The superior and inferior surfaces of the implant have a pattern of ripples that provide increased stability and help prevent movement of the device.

Intended Use / Indications for Use:

When used as an Intervertebral Body Fusion System:

The PILLARTM SA PEEK Spacer System is indicated for spinal fusion procedures in skeletally mature patients with degenerative disc disease (DDD) at one or two contiguous levels in the lumbar spine (L2-S1). DDD is defined as back pain of discogenic origin with degeneration of the disc confirmed by patient history and radiographic studies. DDD patients may also have up to Grade 1 spondylolisthesis at the involved levels. These patients may have had a previous non-fusion surgery at the involved level(s). The PILLARTM SA PEEK Spacer System is intended for use with autograft.

The PILLARTM SA PEEK Spacer System is intended for use with the four titanium alloy screws provided with the device. If the physician chooses to use fewer than four of the provided screws, then supplemental internal fixation must be used to augment stability. As an example, the supplemental internal fixation system that may be used is the Blackstone Medical, Inc. Spinal Fixation System (SFS).

Patients must have undergone a regimen of at least six (6) months of non-operative treatment prior to being treated with the PILLARTM Spacer System.

When used as a Partial Vertebral Body Replacement (VBR) System:

The PILLARTM SA PEEK Spacer System is indicated for use in the thoracolumbar spine (T1-L5) for partial replacement (i.e. partial vertebrectomy) of a diseased vertebral body resected or excised for the treatment of tumors, to achieve anterior decompression of the spinal cord and neural tissues, and to restore the height of a collapsed vertebral body. The PILLARTM SA PEEK Spacer System is also indicated for treating fractures of the thoracic and lumbar spine.

The PILLARTM SA PEEK Spacer System is designed to restore the biomechanical integrity of the anterior, middle, and posterior spinal column, even in the absence of



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fusion for a prolonged period of time. The PILLARTM SA PEEK Spacer System is intended to be used with autograft or allograft.

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Basis of Substantial Equivalence:

Based on mechanical performance data and equivalence in configuration and indications for use, the Blackstone PILLAR SA PEEK Spacer System is substantially equivalent to the following devices, which have been cleared by FDA for the purpose of building a spinal implant construct in the non-cervical spine:

- Blackstone Medical, Inc. Construx PL/TL Partial VBR Spacers (K060350 SE 2-24-06)
- Blackstone Medical, Inc. Construx Mini (K051246 SE 6-14-05)
- Blackstone Medical, Inc. PILLAR Spacer System (K081177 SE 7-23-08)
- Surgicraft, Ltd., STALIF TT (K051027 SE 6-29-05 and K041617 SE 9-8-04)
- Surgicraft, Ltd., STALIF TT Intervertebral Body Fusion System (K073109 SE 6-4-08)
- Medtronic Sofamor Danek, Intrepid Spinal System (K080083 SE 4-10-08)





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

SEP 12 2011

Blackstone Medical, Inc. % Ms. Whitney G. Törning Senior Director of Regulatory Affairs and Quality Assurance 1211 Hamburg Turnpike, Suite 300 Wayne, New Jersey 07470

Re:

K081849

Trade/Device Name: Blackstone PILLAR™ SA PEEK Spacer System

Regulation Number: 21 CFR 888.3080

Regulation Name: Intervertebral body fusion device

Regulatory Class: Class II Product Code: OVD, MQP Dated: July 30, 2008 Received: July 31, 2008

Dear Ms. Törning:

This letter corrects our substantially equivalent letter of August 28, 2008.

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 (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 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); 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

Mark MMIller

Enclosure

Indications for Use

510(k) Number (if known):
Device Name: Blackstone PILLAR™ SA PEEK Spacer System
Indications for Use:

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Prescription Use X	AND/OR	Over-The-Counter Use		
(Part 21 CFR 801 Subpart D) ((21 CFR 807 Subpart	C)		
(PLEASE DO NOT WRITE B NEEDED)	ELOW THIS LINE-(CONTINUE ON ANOTHER PA	AGE IF	
Concurrence of CDRH, Office of Device Evaluation (ODE)				

Page 2 of __2_

(Division Sign-Off)

Division of General, Restorative, and Neurological Devices

510(k) Number K08/8