SYNTHES®

JAN - 5 2005

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K043310

3.0 510(k) Summary

Sponsor:

Synthes (USA)
1690 Russell Road
Paoli, PA 19301
(610) 647-9700

Device Name: Synthes Electric Pen Drive (EPD) System

Classification:

21 CFR 872.4120: Drill, bone, powered
21 CFR 874.4250: Drill, surgical, ENT (Electric or Pneumatic
21 CFR 882.4310: Powered simple cranial drills, burrs, trephines, and accessories
21 CFR 882.4360: Electric cranial drill motor
Instrument, surgical, orthopedic, AC-powered motor & accessories

Predicate Device: Stryker Total Performance (TPS) System

Device Description: The Synthes Electric Pen Drive System consists of a console, handpieces, attachments, footswitch, and cutting tools. The console is connected to the mains by an electric cord, and includes connectors for the handpieces and the footswitch, as well as speed controls, torque limiting feature, and irrigation pump. The handpieces are pen-shaped, and will be available in two versions: 60,000 rpm and 90,000 rpm. The handpieces are connected to the console via a sterilizeable cord. The rotation speed of the motor can be controlled via the footswitch or a removable handswitch. Multiple attachments are available that have a quick-connect into the handpieces; these attachments accept various cutting tools, including drill bits, burrs and saw blades.

Intended Use: The Synthes Electric Pen Drive (EPD) System is indicated for screw insertion, pin and wire placement, cutting of bone and metal, drilling, reaming, decorticating, shaping and smoothing of bones and teeth in a wide variety of surgical procedures, including but not limited to general orthopedic trauma, foot, hand, maxillofacial, neurosurgical, oral, otolaryngological, reconstructive and spine surgery.

Substantial Equivalence: Comparative information presented supports substantial equivalence.

The term "substantial equivalence" as used in this 510(k) notification is limited to the definition of substantial equivalence found in the Federal Food, Drug and Cosmetic Act, as amended and as applied under 21CFR 807, Subpart E under which a device can be marketed without premarket approval or reclassification. A determination of substantial equivalency under this notification is

not intended to have any bearing whatsoever on the resolution of patent infringement suits or any other patent matters. No statements related to, or in support of substantial equivalence herein shall be construed as an admission against interest under the US Patent Laws or their application by the courts.

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

JAN - 5 2005

Ms. Lisa M. Boyle
Regulatory Specialist
Synthes (USA)
1690 Russell Road
Paoli, Pennsylvania 19301

Re: K043310
Trade/Device Name: Synthes (USA) Electric Pen Drive (EPD) System
Regulation Number: 21 CFR 882.4310, 21 CFR 874.4250
Regulation Name: Powered simple cranial drills, burrs, trephines and accessories
Regulatory Class: II
Product Code: HWE, DZI, ERL, and HBE
Dated: December 17, 2004
Received: December 20, 2004

Dear Ms. Boyle:

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 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); 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.

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 Office of Compliance at (240) 276-0115. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). 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) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html

Sincerely yours,

for Miriam C. Provost

Celia M. Witten, Ph.D., M.D.
Director
Division of General, Restorative
and Neurological Devices
Office of Device Evaluation
Center for Devices and Radiological Health

Enclosure

SYNTHES®

2.0 Indications for Use

510(k) Number (if known): K043310

Device Name: Synthes (USA) Electric Pen Drive (EPD) System

Indications for Use:

The Synthes Electric Pen Drive (EPD) System is indicated for screw insertion, pin and wire placement, cutting of bone and metal, drilling, reaming, decorticating, shaping and smoothing of bones and teeth in a wide variety of surgical procedures, including but not limited to general orthopedic trauma, foot, hand, maxillofacial, neurosurgical, oral, otolaryngological, reconstructive and spine surgery.

Prescription Use X AND/OR Over-The-Counter Use
(Per 21 CFR 801.109) (21 CFR 807 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE – CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Miriam C. Provost

(Division Sign-Off)
Division of General, Restorative, and Neurological Devices

510(k) Number K043310