OCT 2 2 2003

K032559
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3.0 Summary of Safety and Effectiveness Information [510(k) Summary]

SPONSOR:	Synthes (USA) 1690 Russell Road Paoli, PA 19301 (610) 647-9700 Contact: Lisa M. Boyle
DEVICE NAME:	Synthes 4.0mm Titanium (Ti.) Locking Screws
CLASSIFICATION:	Class II § 21 CFR 888.3040: Smooth or Threaded Metallic Bone Fixation Fastener.
PREDICATE DEVICE:	Synthes 4.0 mm Stainless Steel Locking Screws
DEVICE DESCRIPTION:	The Synthes 4.0mm Ti. Locking Screws feature a self-tapping tip, stardrive mechanishm, and have a flat head profile with rounded edges. They are available in lengths ranging from 14mm to 90mm. The threads below the head of each locking screw are designed to engage with the threaded holes of currently marketed Synthes LCP® plating systems.
INTENDED USE:	Synthes 4.0mm Ti. Locking screws are intended to be used with existing Synthes LCP® plating systems for the fixation of various long bones, such as the humerus, femur and tibia.
SUBSTANTIAL EQUIVALENCE:	Comparative information presented supports substantial equivalence.
MATERIAL	Titanium Alloy

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

OCT 2 2 2003

Ms. Lisa M. Boyle
Regulatory Associate
Synthes (USA)
1690 Russell Road
Post Office Box 1766
Paoli, PA 19301

Re: K032559
Trade/Device Name: Synthes (USA) 4.0mm Titanium Locking Screws
Regulation Number: 21 CFR 888.3040
Regulation Name: Smooth or threaded metallic bone fixation fastener
Regulatory Class: II
Product Code: HRS
Dated: August 18, 2003
Received: August 19, 2003

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 (301) 594-4659. 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 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

2.0 Indications for Use Statement

510(k) Number (if known): K032559

Device Name: Synthes (USA) 4.0mm Titanium Locking Screws

Indications: Synthes 4.0mm Titanium Locking Screws are intended to be used with existing Synthes LCP® plating systems for the fixation of various long bones, such as the humerus, femur and tibia.

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

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use _____ OR Over-The-Counter Use_
(Per 21 CFR 801.109)

for Mark N Milhous

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

510(k) Number K032559