K010690

MAY 1 8 2001

SYNTHES®

3.0 Summary of Safety and Effectiveness Information

SPONSOR:	Synthes (USA) 1690 Russell Road Paoli, PA 19301 (610) 647-9700 Contact: Thomas M. Maguire
DEVICE NAME:	Synthes Titanium Multi-Vector Distractor
CLASSIFICATION:	Class II, Section 872.4880, Intraosseous fixation screw or wire.
PREDICATE DEVICE:	Howmedica Mandibular Bone Distractor II.
DEVICE DESCRIPTION:	The Synthes Titanium Multi-Vector Distractor is a bone lengthening and distraction device that functions by gradually activating the device in a linear, angular, and/or transverse fashion. Bone stabilization may also be accomplished with this device after distraction. The device is comprised of interchangeable distraction arms, various pin clamps, socket and hex head screws, rods, and activation nuts. All MVD pin clamps accommodate 2.0mm k-wires.
INTENDED USE:	For use in mandibular bone lengthening for conditions such as mandibular hypoplasia or post-traumatic defects such as tumor resections, severe trauma, bone grafting defects, severe open mandible fractures where gradual distraction is required. Where bone loss is a result of the condition, bone transport can be performed as an alternative to free flaps or bone grafts.
MATERIAL:	Ti-6Al-4V

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

MAY 1 8 2001

Mr. Thomas M. Maguire
Project Leader of Regulatory Affairs
Synthes (USA)
1690 Russell Road
Paoli, Pennsylvania 19301

Re: K010690
Trade/Device Name: Synthes Titanium Multi-Vector Distractor
Regulation Number: 872.4880
Regulatory Class: II
Product Code: DZL
Dated: March 7, 2001
Received: March 8, 2001

Dear Mr. Maguire:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we 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). 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 (Premarket Approval), 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 895. A substantially equivalent determination assumes compliance with the Current Good Manufacturing Practice requirements, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic QS inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements

concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

This letter will allow you to begin marketing your device as described in your 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 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4692. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers 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,

Timothy A. Ulatowski
Director
Division of Dental, Infection Control
and General Hospital Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

SYNTHES®

2.0 Indications for Use Statement

510(k) Number (if known): K010690

Device Name: Synthes (USA) Titanium Multi-Vector Distractor

Indications/Contraindications:

For use in mandibular bone lengthening for conditions such as mandibular hypoplasia or post-traumatic defects such as tumor resections, severe trauma, bone grafting defects, severe open mandible fractures where gradual distraction is required.

Where bone loss is a result of the condition, bone transport can be performed as an alternative to free flaps or bone grafts.

(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)

Susan Runner

(Division Sign-Off)
Division of Dental, Infection Control,
and General Hospital Devices
510(k) Number K010690