3/1/17

K984543

510(k) Summary of Safety and effectiveness

> Sponsor: Syntec-Taichung Medical Instruments Co., Ltd.

2, Kung San Road, Chuan Shing Industrial Zone, Shen Kang,

Chang Hua, Taiwan. 509

Phone / FAX: 886-4-7987099 / 886-4-7987077

Contact Person: Ted Y. Shi

> Proprietary Name: Syntec-Taichung Non-sterile Interlocking Nail System

> Common Name: Various Types of Intramedullary Fixation Implants

> Classification Status: Class II, CFR 888.3020

> Device Product Code: 87 HSB

Material: This device is manufactured from commercially 316LS stainless steel.

Indication for Use :

The Interlocking Nail System is provided non-sterile. The implants are inserted into the medullary(bone marrow) canal of long bones(humerus, femur, and tibia) for the fixation of fractures.

Description of the Device :

The interlocking system makes up of Humeral, Femoral, Tibial Nail and bolt screws. The bolt screws are utilized with the different interlocking nail. The interlocking nails have the same features such as:

Proximal locking: Choice of two oval holes for static locking(only three holes for humerus) secures the rotational and axial stability.

> Anatomical design:

- ♦ Humerus: The curvature of 5° in the upper third of the Reamed Humeral Nail allows for easy insertion and good anatomical fit.
- → Femur: The 1.88m radius of the Reamed Femoral Nail corresponds closely
 with the average anatomical curvature of the femur.
- ♦ Tibia: The curvature of 15° in the upper third of the Reamed Tibial Nail allows for easy insertion and good anatomical fit.

- > Distal locking: Through two medial holes, additional locking is also possible in the anatomical seat.
- Easy insertion: The curvature of the posterior aspect of the nail reduces damage to the interior posterior cortical surface during insertion.

The dimension of the interlocking nail ranges in diameter from 7 to 16 mm and total length 200 to 480 mm.

The locking bolt screws have high strength, no tapping necessary and easy locking technique. The dimension of the bolt screw ranges in thread diameter from 3.9 to 6.4 mm and total length 20 to 100 mm.

Basis of Substantial Equivalence :

A comparison of the non-sterile Interlocking Nail System described in this submission and Richards — Trimax Nail System has been commercial device that they are very similar or identical in terms of design, sizes, material and appliance. Based on this information, Syntec-Taichung (Taiwan) believes that the non-sterile Interlocking Nail System is substantially equivalent to Richards — Trimax Nail System.



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

MAR - 1 1999

Mr. Ted Y. Shi President Syntec-Taichung Medical Instruments Company Limited 2, Kung San Road, Chuan Shing Industrial Zone Shen Kang, Chang Hua, Taiwan 509

Re: K984543

Syntec-Taichung (Taiwan) Non-sterile

Interlocking Nail System

Regulatory Class: II Product Code: HSB

Dated: December 15, 1998 Received: December 21, 1998

Dear Mr. Shi:

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 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 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 requirement, 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) 594-4659. 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" (21 CFR 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/dsmamain.html".

Sincerely yours,

Celia M. Witten, Ph.D., M.D.

Director

Division of General and
Restorative Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

Page _1_ of _1	
510(K) Number (if known):	
Device Name: Syntec-Taichung Non-sterile Interlock	king Nail System
Indications for use:	
The Interlocking Nail System is provided non-stemedullary(bone marrow) canal of long bones(humerus fractures.	
(PLEASE DO NOT WRITE BELOW THIS LI	NE-CONTINUE ON ANOTHER
PAGE IF NEEDED)	
Concurrence of CDRH, Office of Devi	ce Evaluation (ODE)
Prescription Use OR	Over-The-Counter-Use
(Per 21 CFR 801.109)	(Optional Format 1-2-96)
(Division Sign-Off) Division of General Restorative Device 510(k) Number	5 169 8454 3