



June 7, 2021

Osteonic Co., Ltd.
% Sanglok Lee
Manager
Wise Company Inc.
#303, 142, Gasan digital 1-ro
Geumcheon-gu, Seoul 08507
Korea, Republic of

Re: K202663
Trade/Device Name: Suture Wing
Regulation Number: 21 CFR 888.3040
Regulation Name: Smooth Or Threaded Metallic Bone Fixation Fastener
Regulatory Class: Class II
Product Code: MBI
Dated: May 4, 2021
Received: May 6, 2021

Dear Sanglok Lee:

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. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database located at <https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm> identifies combination product submissions. 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. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

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 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); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803) for devices or postmarketing safety reporting (21 CFR 4, Subpart B) for combination products (see <https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products>); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems>.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (<https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance>) and CDRH Learn (<https://www.fda.gov/training-and-continuing-education/cdrh-learn>). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (<https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice>) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

Pooja Panigrahi -S

for

Laura C. Rose, Ph.D.
Assistant Director
DHT6C: Division of Restorative, Repair
and Trauma Devices
OHT6: Office of Orthopedic Devices
Office of Product Evaluation and Quality
Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known)

K202663

Device Name

Suture Wing

Indications for Use (Describe)

Suture wing is intended for fixation of soft tissue to bone, using suture, in orthopedic surgery.

Type of Use (Select one or both, as applicable)

☒ Prescription Use (Part 21 CFR 801 Subpart D)

☐ Over-The-Counter Use (21 CFR 801 Subpart C)

CONTINUE ON A SEPARATE PAGE IF NEEDED.

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The assigned 510(k) Number: K202663

01. Date of Submission: 2020.09.11

02. Applicant

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03. Submission Correspondent

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04. Subject Device Identification

Trade Name: Suture Wing
Common Name: Sterile bone anchor-all suture
Classification Name: fastener, fixation, non-biodegradable, soft tissue
Product Code: MBI
Panel: Orthopedic
Regulation Number: 21 CFR 888.3040
Device Class: II

05. Indication for use

Suture wing is intended for fixation of soft tissue to bone, using suture, in orthopedic surgery.

06. Predicate devices

Predicate device
510(k) Number: K133224
Device Name: Y-Knot RC All-suture anchor w/Two and Three #2 Hi-Fi Sutures
Manufacturer: ConMed Corporation

07. Device Description

This product is used for orthopedic surgery, which soft tissue fix such as ligaments, tendons, and capsules to bone. The anchor and sutures is made of non-absorbable and consists of Driver Handle (ABS) and Driver Shaft(Nitinol) for anchor insertion. This product is sterilized product and single use only.
Sterile bone anchor-all suture is supplied EO gas sterile state and it was packed in tyvek and PE film.

08. Non-Clinical Test Conclusion

Bench tests were conducted to verify that the subject device met all design specifications as was Substantially Equivalent (SE) to the predicate device. The test results demonstrated that the subject device complies with the following standards:

▪ **Material**

- ASTM F2848: 2017 Standard Specification for Medical-Grade Ultra-High Molecular Weight Polyethylene Yarns
- ASTM F2063: 2012 Standard Specification for Wrought Nickel-Titanium Shape Memory Alloys for Medical Devices and Surgical Implants

▪ **Mechanical performance**

- ASTM F543: 2013 Standard specification and test methods for metallic medical bone screws
- ASTM F1839: 2008 (Reapproved 2016), Standard specification for rigid polyurethane foam for use as a standard material for testing orthopaedic devices and instruments

▪ **Sterilization, shelf-life and packaging for sterile product**

- ISO 11135:2014, Sterilization of health-care products – Ethylene oxide – Requirements for the development validation and routine control of a sterilization and routine control of a sterilization process for medical devices
- ISO 11138-1:2006, Sterilization of health care products — Biological indicators — Part 1: General requirements
- ISO 11138-2:2009, Sterilization of health care products — Biological indicators — Part 2: Biological indicators for ethylene oxide sterilization processes
- ISO 11140-1:2014, Sterilization of health care products — Chemical indicators — Part 1: General requirements
- ISO 11737-1:2018 Sterilization of medical devices - Microbiological methods- Part 1: Estimation of population of microorganisms on products
- ISO 11737-2:2009 Sterilization of medical devices - Microbiological methods- Part 2: Tests of sterility performed in the validation of a sterilization process
- ISO 11607-1:2006/AMD1:2014 Packaging for terminally sterilized medical devices - part 1: requirements for materials, sterile barrier systems and packaging system
- ISO 11607-2:2006/AMD1:2014 Packaging for terminally sterilized medical devices - Part 2: Validation requirements for forming, sealing and assembly processes
- ASTM F1980:2016 Standard Guide for Accelerated Aging of Sterile Barrier Systems for Medical Devices
- ASTM F88/F88M:2015 Standard test method for seal strength of flexible barrier materials.
- ASTM F1929:2015 Standard Test Method for Detecting Seal Leaks in Porous Medical Packaging by Dye Penetration

▪ **Bacterial Endotoxin**

- USP <85> Bacterial Endotoxin Test
- USP <161> Medical Devices-Bacterial Endotoxin and Pyrogen Tests

▪ **Material mediated pyrogenicity**

- USP <151> Pyrogenicity Test
- ISO 10993-11: Tests for systemic toxicity

▪ **Insertion test**

- FDA guidance : Bone Anchors – Premarket notification (510(K)) Submissions
- ASTM F1839: 2008 (Reapproved 2016), Standard specification for rigid polyurethane foam for use as a standard material for testing orthopaedic devices and instruments

09. Substantially Equivalent Conclusion

Table 1: Substantial Equivalence Comparison

Product Name	SUBJECT Device	PREDICATE Device Y-Knot RC All-suture anchor w/Two and Three #2 Hi-Fi Sutures (K133224)	Equivalence Discussion
Product code	MBI	MBI	Same
Regulatory class	Class II	Class II	Same
Regulation Number	21 CFR 888.3040	21 CFR 888.3040	Same



Intended use	Suture wing is intended for fixation of soft tissue to bone, using suture, in orthopedic surgery.	The non-absorbable suture anchors are intended to reattach soft tissue to bone in orthopedic surgical procedures.	Same
Operating Principles	Bone fixation anchor that ties soft tissues such as ligament, tendon, and the articular capsules to bone.	Bone fixation anchor that ties soft tissues such as ligament, tendon, and the articular capsules to bone.	Same
Material	Anchor and suture: UHMWPE	Anchor and suture: UHMWPE	Similar
Structure	This product consists of a non-absorbable all suture and driver shaft and handle.	This product consists of a non-absorbable all suture and driver shaft and handle.	Similar
Product Size	1.7mm/ 2.8mm	1.8mm/ 2.8mm	Similar
Sterilization	Sterile (EtO sterilization)	Sterile (EtO sterilization)	Same
Single Use/ Reuse	Single use	Single use	Same
Packaging	1 EA / BOX	1 EA / BOX	Same
Shelf -life	5Years	5Years	Same

Based on above, the subject device, **Suture Wing**, is Substantially Equivalent (SE) to the predicate devices, Y-Knot RC All-suture anchor w/Two and Three #2 Hi-Fi Sutures (K133224) in respect of safety and effectiveness.