

Arthrex Inc.
Rebecca R. Homan
Senior Regulatory Affairs Associate
1370 Creekside Boulevard
Naples, Florida 34108-1945

October 3, 2019

Re: K191344

Trade/Device Name: Arthrex Mini Comprehensive Fixation System - 2.0mm & 2.4mm Module

Regulation Number: 21 CFR 888.3030

Regulation Name: Single/Multiple Component Metallic Bone Fixation Appliances And Accessories

Regulatory Class: Class II Product Code: HRS, HWC Dated: August 29, 2019 Received: August 30, 2019

#### Dear Rebecca R. Homan:

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 <a href="https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm">https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm</a> 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 <u>Federal Register</u>.

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 <a href="https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products">https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products</a>); 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 <a href="https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems">https://www.fda.gov/medical-device-problems</a>.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (<a href="https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance</a>) and CDRH Learn (<a href="https://www.fda.gov/training-and-continuing-education/cdrh-learn">https://www.fda.gov/training-and-continuing-education/cdrh-learn</a>). 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 (<a href="https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice</a>) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

For, Shumaya Ali, M.P.H.
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

# DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

## **Indications for Use**

Form Approved: OMB No. 0910-0120

Expiration Date: 06/30/2020 See PRA Statement below.

510(k) Number (if known)
K191344
Device Name
Arthrex Mini Comprehensive Fixation System – 2.0mm & 2.4mm Module
Indications for Use (Describe)
The Arthrex Mini Comprehensive Fixation System Plates (2.0-2.4 mm) are intended for fixation of fractures, osteotomies,
nonunions, replantations, and fusions of small bones and small bone fragments, particularly in osteopenic bone.
Examples include, but are not limited to, the hand, wrist, foot, and ankle. The Arthrex Mini Comprehensive Fixation System Plates are to be used with the Arthrex Mini Comprehensive Fixation System Screws (2.0-2.4 mm solid).
The Arthrex Mini Comprehensive Fixation System Screws (2.0-2.4 mm solid) are intended for fixation of fractures,
osteotomies, nonunions, replantations, and fusions of small bones and small bone fragments, particularly in osteopenic
bone. Examples include, but are not limited to, the hand, wrist, foot, and ankle. The Arthrex Mini Comprehensive Fixation
System Screws are to be used with the Arthrex Mini Comprehensive Fixation System Plates (2.0-2.4 mm).
Type of Use (Select one or both, as applicable)
➤ Prescription Use (Part 21 CFR 801 Subpart D)
CONTINUE ON A SEPARATE PAGE IF NEEDED.

This section applies only to requirements of the Paperwork Reduction Act of 1995.

### \*DO NOT SEND YOUR COMPLETED FORM TO THE PRA STAFF EMAIL ADDRESS BELOW.\*

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Department of Health and Human Services Food and Drug Administration Office of Chief Information Officer Paperwork Reduction Act (PRA) Staff PRAStaff@fda.hhs.gov

"An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB number."

# 510(k) Summary or 510(k) Statement

Date Prepared	August 29, 2019
Submitter	Arthrex Inc.
	1370 Creekside Boulevard
	Naples, FL 34108-1945
Contact Person	Rebecca R. Homan
	Senior Regulatory Affairs Associate
	1-239-643-5553, ext. 73429
	rebecca.homan@arthrex.com
Name of Device	Arthrex Mini Comprehensive Fixation System – 2.0mm & 2.4mm Module
Common Name	Single/multiple component metallic bone fixation appliances and accessories
	Smooth or threaded metallic bone fixation fastener
Product Code	HRS; HWC
Classification Name	21 CFR 888.3030: Single/multiple component metallic bone fixation appliances
	and accessories
	21 CFR 888.3040: Smooth or threaded metallic bone fixation fastener
Regulatory Class	
Predicate Device	K063049: Synthes (USA) Modular Mini Fragment LCP System
Purpose of	This Traditional 510(k) premarket notification is submitted to obtain clearance for
Submission	the Arthrex Mini Comprehensive Fixation System – 2.0mm & 2.4mm Module.
<b>Device Description</b>	The Arthrex Mini Comprehensive Fixation System – 2.0mm & 2.4mm Module
	consists of a series of plates and screws of varying lengths and thickness. The
	plates are contoured to fit the various aspects of the hand, wrist, foot and ankle
	including Straight, T-, Y-, V-, Cage, Triangular and Bridge. The plates are attached
	to bone with 2.0 mm and 2.4 mm cortical and variable locking screws. The
	screws range from 2.0 mm to 2.4 mm in diameter and from 6 mm to 40 mm in
	length. The plates and screws are manufactured from titanium. The plates and
	screws are sold non-sterile and single-use.
Indications for Use	The Arthrex Mini Comprehensive Fixation System Plates (2.0-2.4 mm) are
	intended for fixation of fractures, osteotomies, nonunions, replantations, and
	fusions of small bones and small bone fragments, particularly in osteopenic bone.
	Examples include, but are not limited to, the hand, wrist, foot, and ankle. The
	Arthrex Mini Comprehensive Fixation System Plates are to be used with the
	Arthrex Mini Comprehensive Fixation System Screws (2.0-2.4 mm solid).
	The Arthrex Mini Comprehensive Fixation System Screws (2.0-2.4 mm solid) are
	intended for fixation of fractures, osteotomies, nonunions, replantations, and
	fusions of small bones and small bone fragments, particularly in osteopenic bone.
	Examples include, but are not limited to, the hand, wrist, foot, and ankle. The
	Arthrex Mini Comprehensive Fixation System Screws are to be used with the
	Arthrex Mini Comprehensive Fixation System Plates (2.0-2.4 mm).
Performance Data	Pull-out (ASTM F543), insertion torque/failure torque, static four-point bend
	(ASTM F382) and four-point bend fatigue testing (ASTM F382) was conducted to
	demonstrate that the proposed Arthrex Mini Comprehensive Fixation System –
	2.0mm & 2.4mm Module performs statistically equivalent to the predicate.
Conclusion	The Arthrex Mini Comprehensive Fixation System – 2.0mm & 2.4mm Module is
	substantially equivalent to the predicate device in which the basic design features
	and intended uses are the same. Any differences between the proposed device
	and the predicate device are considered minor and do not raise different

questions concerning safety or effectiveness.

The submitted mechanical testing data demonstrates that the pull-out, torque, bending strength and the fatigue strength of the proposed devices are substantially equivalent to that of the predicate device for the desired indications.

Based on the indications for use, technological characteristics, and the summary of data submitted, Arthrex Inc. has determined that the proposed device is substantially equivalent to the currently marketed predicate device.