

October 1, 2021

Surgimatix, Inc.
Dorene Markwiese
Director of Regulatory Affairs
1539 Jarvis Ave
Elk Grove Village, Illinois 60007

Re: K201934

Trade/Device Name: Surgimatix Absorbable Fixation System

Regulation Number: 21 CFR 878.4750 Regulation Name: Implantable Staple

Regulatory Class: Class II Product Code: GDW Dated: September 1, 2021 Received: September 2, 2021

Dear Dorene Markwiese:

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 <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 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-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/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,

Deborah Fellhauer
Acting Assistant Director
DHT4B: Division of Infection Control
and Plastic Surgery Devices
OHT4: Office of Surgical
and Infection Control 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

510(k) Number (if known)

Form Approved: OMB No. 0910-0120 Expiration Date: 06/30/2023

See PRA Statement below.

K201934	
Device Name Surgimatix Absorbable Fixation System	
Indications for Use (Describe) The Surgimatix Absorbable Fixation System is indicated for the approximation of soft tissues during open or laparoscopic surgical procedures, such as hernia repair.	e and fixation of surgical mesh
Type of Use (Select one or both, as applicable)	
	(21 CFR 801 Subpart C)

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

CONTINUE ON A SEPARATE PAGE IF NEEDED.

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

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"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."

K201934

SECTION 5: 510(k) SUMMARY STATEMENT

This 510(k) summary is being submitted in accordance with the requirements of the Safe Medical Devices Act of 1990, 21 CFR 807.92

1. General Information

Date of Submission: June 29, 2020

Submitted By: Surgimatix, Inc.

1539 Jarvis Street

Elk Grove Village, IL 60007

Contact Person: Dorene Markwiese

Director of Regulatory Affairs

Phone 847-400-2546 Fax 847-258-3326

dmarkwiese@surgimatix.com

2. Trade/Proprietary Name of Device:

Trade Name: Surgimatix Absorbable Fixation System

Common Name: Staple, Implantable

Regulation Number 878.4750 Product Code: GDW

Device Panel: General and Plastic Surgery

Device Classification: Class II

3. Legally Marketed Predicate Devices for Claimed Equivalence:

Name: Davol Absorbable Fastener System

510(k) #: K082396

The SorbaFix Absorbable Fixation System (K111153) and the Surgimatix Proxifast Absorbable Staple (K132669) are reference devices for this submission.

4. Device Description

The Surgimatix Absorbable Fastener System is designed to deliver an absorbable fastener for tissue-to-tissue fixation or mesh-to-tissue fixation during surgical procedures. The deployment device consists of an ergonomic handle with trigger, shaft and tip. The shaft is 38 cm long, and can be utilized for laparoscopic or open surgical procedures. The device is preloaded with 20 polydioxanone absorbable fasteners. During deployment into soft tissue or mesh the absorbable fastener is formed into a helical configuration to establish fixation.

5. Indications for Use Statement

The Surgimatix Absorbable Fixation System is intended for the approximation of soft tissue and fixation of surgical mesh to tissues during open or laparoscopic surgical procedures, such as hernia repair.

6. Substantial Equivalence Comparison

Indications for Use:

Substantial equivalence for the Surgimatix Absorbable Fixation System is supported by the predicate device listed in this submission, which has an identical indications statement.

Technological Characteristics:

Key technological characteristics of the Surgimatix Absorbable Fixation System are similar to the predicate device. Both devices have the same basic components including a handle and shaft designed to deliver a fastener. Both devices use similar fixation technology to deliver a fastener by activating a trigger. The Surgimatix absorbable fasteners are manufactured from polydiaxonone, whereas the predicate absorbable fasteners are manufactured from poly (D,L) lactide. The materials are both commonly used for implantable sutures or fasteners. The Surgimatix absorbable fastener material is identical to the material utilized for the Surgimatix Proxifast Absorbable Staple (K132669), referenced within this submission.

The proposed device and the predicate device differ in the details of the device design. The proposed device utilizes opposing needles at the tip to deliver the fastener into a helical configuration in the soft tissue or mesh. The predicate device has fasteners that are screw like which are driven into the tissue or mesh using a needle. The functional result of each device is equivalent as the end effect is to effectively place a fastener into tissue and/or mesh for fixation.

Mechanical, biocompatibility, and preclinical data confirmed that the Surgimatix Absorbable Fixation System performs as intended and that no new issues of safety and effectiveness are introduced. The Surgimatix Absorbable Fasteners were tested in vivo in an animal model to confirm the mechanical strength of the repair over time as compared to the predicate device.

7. Conclusion

The Surgimatix Absorbable Fixation System is substantially equivalent to the predicate device currently marketed in accordance with the Federal Food, Drug and Cosmetic Act.