



April 29, 2022

Covidien  
Katherine Choi  
Senior Principal Regulatory Affairs Specialist  
60 Middletown Avenue  
North Haven, Connecticut 06473

Re: K221006

Trade/Device Name: GIA Stapler with Tri-Staple Technology  
Regulation Number: 21 CFR 878.4740  
Regulation Name: Surgical Stapler  
Regulatory Class: Class II  
Product Code: GAG, GDW  
Dated: March 30, 2022  
Received: April 5, 2022

Dear Katherine Choi :

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](mailto:DICE@fda.hhs.gov)) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

Mark Trumbore  
Assistant Director  
DHT4A: Division of General Surgery Devices  
OHT4: Office of Surgical  
and Infection Control Devices  
Office of Product Evaluation and Quality  
Center for Devices and Radiological Health

Enclosure

## Indications for Use

510(k) Number (if known)  
K221006

Device Name  
GIA™ Stapler with Tri-Staple™ Technology

### Indications for Use (Describe)

The GIA™ stapler with Tri-Staple™ technology has applications in abdominal and thoracic surgical procedures for resection, transection and creation of anastomosis.

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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## 510(k) Summary

**Date Prepared:**

Apr 22, 2022

**Submitter:**

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**Name of Device:**

Proprietary/Trade Name:	GIA™ Stapler with Tri-Staple™ Technology
Model Numbers:	GIA60MTS, GIA60XTS, GIA60MTC, GIA60XTC GIA80MTS, GIA80XTS, GIA80MTC, GIA80XTC
Classification Name:	Staple, Implantable; Stapler, Surgical
Regulations Number:	21 CFR 878.4750, 21 CFR 878.4740
Product Codes:	GDW, GAG
FDA Panel Number:	79
Device Class:	Class II
Review Panel:	General and Plastic Surgery
Common Name:	Surgical stapler with implantable staples

**Predicate Device:**

Proprietary/Trade Name:	GIA™ Stapler with Tri-Staple™ Technology
Model Numbers:	GIA60MTS, GIA60XTS, GIA60MTC, GIA60XTC GIA80MTS, GIA80XTS, GIA80MTC, GIA80XTC
510(k) Number:	K202701 (Primary Predicate Device) K192720
Classification Name:	Staple, Implantable
Regulations Number:	21 CFR 878.4750
Product Codes:	GDW
FDA Panel Number:	79
Device Class:	Class II
Review Panel:	General and Plastic Surgery
Common Name:	Surgical stapler with implantable staples

**Device Description:**

The GIA™ stapler with Tri-Staple™ technology places two triple staggered rows of titanium staples and simultaneously cuts and divides tissue between these two triple rows. The subject

GIA™ stapler and cartridges with Tri-Staple™ technology are available in 60 mm and 80 mm staple line length and two staple sizes to accommodate tissue thicknesses: medium/thick and extra thick. Staplers for medium/thick tissue (purple cartridge) deploy three height-progressive rows of 3.0 mm, 3.5 mm and 4.0 mm titanium staples on either side of the tissue cut line. Staplers for extra thick tissue (black cartridge) deploy three height-progressive rows of 4.0 mm, 4.5 mm and 5.0 mm titanium staples on either side of the cut line. Each GIA™ stapler with Tri-Staple™ technology may be reloaded with a GIA™ Cartridge with Tri-Staple™ Technology up to 7 times for a total of 8 firings per instrument.

The design modification is to add one contraindication per special control 21 CFR 878.4740(b)(2)(ix)(A), and revises IFUs and labels per new regulation requirements.

**Indications for Use:**

The GIA™ stapler with Tri-Staple™ technology has applications in abdominal and thoracic surgical procedures for resection, transection and creation of anastomosis.

**Technological and Performance Characteristics:**

The subject device GIA™ stapler with Tri-Staple™ technology with a new contraindication does not change the fundamental operating principle and mechanism of action when compared to the predicate device. This Special 510(k) submission is triggered by the addition of a contraindication called for in the Labeling Guidance: a statement noting that the device “should not be used to staple tissues that are necrotic, friable, or have altered integrity, e.g., ischemic or edematous tissues.” This contraindication is consistent with surgical training and practice. All GIA™ stapler with Tri-Staple™ technology are single-use manual linear staplers.

**Substantial Equivalence:**

The subject device with a new contraindication is substantially equivalent to the legally marketed GIA™ stapler with Tri-Staple™ technology (K202701, K192720). The intended use, or indications of the subject device is not altered with the introduction of new contraindication.

They are same in fundamental scientific technology in that they are all sterile, single use, hand-held, manual surgical instruments equipped with titanium staples intended to have applications in abdominal and thoracic surgical procedures for resection, transection and creation of anastomosis. The subject and predicate device are the same in design and are sterilized via ethylene oxide.

**Summary of Studies:**

Non-clinical performance data – Usability assessment was performed for the proposed labeling changes to demonstrate substantial equivalence to the predicate device.

Clinical performance data – No clinical study is deemed necessary since the substantial equivalence has been sufficiently demonstrated by non-clinical studies.

**Conclusion:**

Based upon the supporting data summarized above, we concluded that the subject device GIA™ Stapler with Tri-Staple™ Technology with a new contraindication is substantially equivalent to the legally-marketed device K202701, and K192720 and does not raise different questions or additional risks of safety and effectiveness than the predicate device.