



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
10903 New Hampshire Avenue
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Silver Spring, MD 20993-0002

Intuitive Surgical, Inc.
Vishal Kanani
Senior Regulatory Affairs Specialist
1266 Kifer Road
Sunnyvale, California 94086

October 16, 2015

Re: K152663

Trade/Device Name: Bladeless Optical Obturators
Regulation Number: 21 CFR 876.1500
Regulation Name: Endoscope and accessories
Regulatory Class: Class II
Product Code: GCJ
Dated: September 15, 2015
Received: September 17, 2015

Dear Vishal Kanani:

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. 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); good manufacturing practice requirements as set forth in

the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

<http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>. 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

<http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

<http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>.

Sincerely yours,

Joshua C. Nipper -S

For Binita S. Ashar, M.D., M.B.A., F.A.C.S.
Director
Division of Surgical Devices
Office of Device Evaluation
Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known)

K152663

Device Name

Bladeless Optical Obturators

Indications for Use (Describe)

The da Vinci Xi Trocar has application in a variety of endoscopic procedures to provide a port of entry for endoscopic instruments.

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

510(k) Owner: Intuitive Surgical, Inc.
1266 Kifer Road
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Date Summary Prepared: September 15, 2015

Trade Name: Bladeless Optical Obturator

Common Name: Endoscope and accessories

Classification: Class II
21 CFR 876.1500, Endoscope and Accessories

Product Codes: GCJ

Classification Advisory Committee: General and Plastic Surgery

Predicate Device: K133845 – 8MM Trocar Kit

Device Description

The *da Vinci Xi* Bladeless Optical Obturators are used with the *da Vinci Xi* Cannulas and *da Vinci Xi* Cannula Seals to facilitate placement of the Cannula in the body wall. The Bladeless Optical Obturators consist of three components – a shaft, a handle, and two latches that allow the obturator to latch onto the Cannula Seal. The handle has an opening which allows the insertion of a size-compatible endoscope into the Bladeless Optical Obturator. The subject devices are single use devices and are offered in two sizes, 8 mm and 12 mm and in two lengths (standard and long) to match the Cannula lengths and to meet users' needs.

Intended Use/Indications for Use:

The *da Vinci Xi* Trocar has application in a variety of endoscopic procedures to provide a port of entry for endoscopic instruments.

Technological Characteristics:

The subject Bladeless Optical Obturators are very similar to the predicate devices, 8 mm Bladeless Obturators (K133845). They have the same intended use, same fundamental scientific technology, and similar technological characteristics as the predicate devices. Modifications include the presence of an opening in the handle of the subject device and the change in material of the tip of the obturator, from gray polycarbonate to clear polycarbonate.

Performance Data:

In accordance with the Design Control process, risk analysis was conducted to evaluate the impact of modifications on the predicate devices. Design verification and design validation testing were conducted on the subject devices to confirm that the design outputs meet design input requirements and that the devices are safe and effective for its intended use.

Design Verification:

The bench testing summarized in this submission verifies dimensional, mechanical, and labeling requirements for the subject device. Drop test, axial load bearing capacity of the connection between the Obturator and Cannula Seal, maximum diametrical clearance when the Obturator is used with the Cannula, ability to differentiate between colors when used with a size-compatible endoscope, and maximum length of the Obturator shaft past the distal end of the Cannula were tested along with adequacy of labeling required to communicate compatibility of the subject device.

Design Validation:

The testing summarized in this submission validates general, functional, and interaction (compatibility) requirements for the subject device. Tests with an animal model were performed to assess the subject device's latching mechanism and verify that the obturator does not catch on tissue. The subject devices' compatibility with the cannulas, cannula seals, and size-compatible endoscopes were tested to ensure they maintain insufflation when used together.

Summary:

Based on the intended use, indications for use, technological characteristics, and performance data, the subject Bladeless Optical Obturators are substantially equivalent to the predicate 8 mm Bladeless Obturators cleared in K133845.