

July 27, 2021

Ra Medical Systems, Inc. Jami Miller Director Regulatory Affairs 2070 Las Palmas Drive Carlsbad, California 92011

Re: K210664

Trade/Device Name: DABRA Laser System (DABRA Laser Model RA-308 and DABRA Catheter

Model 101)

Regulation Number: 21 CFR 870.1250 Regulation Name: Percutaneous Catheter

Regulatory Class: Class II

Product Code: PDU Dated: June 28, 2021 Received: June 29, 2021

Dear Jami Miller:

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>.

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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/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">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,

Gregory O'Connell
Assistant Director
DHT2C: Division of Coronary
and Peripheral Intervention Devices
OHT2: Office of Cardiovascular 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.

| K210664 |
|---|
| Device Name DABRA Laser System (DABRA Laser model RA-308 and DABRA Catheter model 101) |
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| Indications for Use (Describe) The DABRA Laser System is indicated for crossing chronic total occlusions in patients with symptomatic infrainguinal |
| lower extremity vascular disease. |
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| Type of the (Color and ar both, as applicable) |
| 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. |

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

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510(k) SUMMARY

I Submitter Information

Ra Medical Systems, Inc.

2070 Las Palmas Drive, Carlsbad CA 92011

Company Phone: (760) 804 1648

Fax: (760) 804 1657

Contact: Jami Miller, Director Regulatory Affairs

Date Prepared: February 19, 2021

II Device Identification

Device Trade Name: DABRA Laser System (DABRA Laser model RA-308 and

DABRA Catheter model 101)

Common Name: Laser Catheter, Excimer Laser

Classification Name: Percutaneous catheter

Regulatory Class: Class II (per 870.1250 percutaneous catheter)

Device Code: PDU

III Identification of Predicate Device

DABRA Laser System (K170349)

IV Device Description

The Ra Medical Systems' DABRA™ Laser Catheter model 101 and RA-308 Excimer Laser is composed of an Excimer laser light source and gamma sterilized single use catheter consisting of an extruded fluorinated ethylene propylene (FEP) tube coated on the inner diameter with an amorphous fluoropolymer thin film resulting in total internal reflection of 308 nm light capped at each end by optical fiber (fused silica).

The laser light is generated by a software-controlled 308nm Excimer source though a discharge excitation process within a gas filled resonating cavity. The light is directed to the catheter through a lens. The fiber and the fluid use total internal reflection to direct the ultraviolet laser energy from the laser light source to the tip of the catheter. The catheter is connected to the laser for the procedure, and then inserted into the patient's vasculature along the length of a previously inserted guide catheter, support catheter, guiding sheath, or introducer sheath allowing the physician to target the laser energy to the lesion.

The laser energy photoablates the lesion creating a lumen that permits blood flow. The lumen can be used for other interventional treatment devices. The system is

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designed to be used in a catheterization laboratory. This setting includes fluoroscopy devices, injecting devices, patient monitoring devices, a table for the patient, and personnel to assist the physician in performing the treatment.

V Intended Use (807.92(a)(5))

For use in ablating a channel in occlusive peripheral vascular disease.

Indications for Use

The DABRA Laser System is indicated for crossing chronic total occlusions in patients with symptomatic infrainguinal lower extremity vascular disease.

VI Technological Comparison to Predicate Device

The technological characteristics of the subject device is identical to the predicate device in its design, intended use, indications for use, target population, environments for use, fundamental scientific technology, principal of operation and method of action, packaging configuration, sterility assurance level (SAL) and method of sterilization.

The subject device is a modification to the predicate device and is different as follows:

- Changed calibration sleeve design.
- Strain relief design.
- Addition of marker band.
- Packaging changes.
- New footswitch.
- New wheels, additional labeling.
- Changes to cleaning processes.
- Reduced shelf life to 60 days.

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VII Performance Data

The following performance data were provided in support of the substantial equivalence determination:

- Package integrity testing.
- Catheter performance testing.
- Calibration sleeve verification testing.
- Safety testing.
- Biocompatibility.
- Software testing.

VIII Conclusions

The identified differences do not raise new or different concerns of safety or effectiveness relative to the predicate device. Performance testing has demonstrated that the subject device met the applicable design output requirements and demonstrate that the modified device and predicate device are substantially equivalent.