

Vascular Solutions LLC Steph Pahl Regulatory Product Specialist 6464 Sycamore Court North Minneapolis, Minnesota 55369

Re: K210647

Trade/Device Name: SuperCross microcatheter, SuperCross FT microcatheter, SuperCross AT

microcatheter

Regulation Number: 21 CFR 870.1250 Regulation Name: Percutaneous catheter

Regulatory Class: Class II Product Code: DQY Dated: March 1, 2021 Received: March 3, 2021

# Dear Steph Pahl:

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/efdocs/efpmn/pmn.cfm">https://www.accessdata.fda.gov/scripts/cdrh/efdocs/efpmn/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

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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,

Lydia S. Glaw -S Digitally signed by Lydia S. Glaw -S Date: 2021.04.30 12:22:30 -04'00'

Lydia Glaw
Assistant Director
DHT2C: Division of Coronary
and Peripheral Interventional 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

Expiration Date: 06/30/2023 See PRA Statement below.

K21064/
Device Name SuperCross microcatheter, SuperCross FT microcatheter, SuperCross AT microcatheter
Indications for Use ( <i>Describe</i> )  The SuperCross microcatheter is intended to be used in conjunction with steerable guidewires to access discrete regions of the coronary and/or peripheral vasculature. It may be used to facilitate placement and exchange of guidewires and other interventional devices and to subselectively infuse/deliver diagnostic and therapeutic agents.
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.

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

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#### 510(k) Summary

[As required by 21 CFR 807.92]

Date Prepared: March 1, 2021

#### Submitter's Name / Contact Person

Manufacturer

Vascular Solutions LLC 6464 Sycamore Court North Minneapolis, MN 55369 USA

Establishment Registration # 2134812

**Contact Person** 

Steph Pahl

**Regulatory Product Specialist** 

Tel: 763-762-2641 Fax: 763-251-0363

**General Information** 

Trade Name SuperCross microcatheter

SuperCross FT microcatheter SuperCross AT microcatheter

Common / Usual Name Catheter

Classification Name 21 CFR 870.1250, DQY, Percutaneous catheter, Class II

Predicate Device K101659, SuperCross microcatheter (Vascular Solutions, Inc.)

### **Device Description**

The SuperCross microcatheters are single lumen catheters designed for use in the coronary and/or peripheral vasculature. The SuperCross microcatheters provide guidewire support during interventional procedures and allows for the exchange of one distally located guidewire for another while maintaining access to distal vasculature. The SuperCross microcatheters are available in various tip configurations (straight, flexible, angled) and two working lengths (130cm, 150cm). The distal 40cm of the straight tip catheters and the distal 72 cm of the angled tip catheters has a hydrophilic coating. The proximal end of the catheter incorporates a strain relief and a luer-lock adapter for flushing. The SuperCross microcatheters are compatible with .014" guidewires and 5F guide catheters.

## **Intended Use**

The SuperCross microcatheter is intended to be used in conjunction with steerable guidewires to access discrete regions of the coronary and/or peripheral vasculature. It may be used to facilitate placement and exchange of guidewires and other interventional devices and to subselectively infuse/deliver diagnostic and therapeutic agents.

#### **Technological Characteristics Comparison**

The key technological differences between the SuperCross microcatheters and the predicate device are the addition of flexible and angled tip versions and a change to the hub and markerband materials.

## **Substantial Equivalence and Summary of Studies**

The technological differences between the subject and predicate devices have been evaluated through performance and biocompatibility tests to provide evidence of substantial equivalence for the Supercross microcatheters.

The device performance was verified through the following tests:

- Deliverability
- Hydrophilic Coating Evaluation
- Structural Integrity

- ISO 10555-1 Verification
- ISO 594 Hub Verification

Device samples passed the following biocompatibility tests performed in accordance with ISO 10993-1:

- Cytotoxicity
- Sensitization
- Irritation
- Systemic Toxicity

- Material Mediated Pyrogenicity
- Hemolysis
- Complement Activation
- Thrombogenicity

The results of the verification tests met the specified acceptance criteria and did not raise new questions of safety or effectiveness; therefore, the SuperCross microcatheters are substantially equivalent to the predicate device.