

June 30, 2023

Medtronic Vascular Shalin Parikh Senior Regulatory Affairs Specialist 37A Cherry Hill Drive Danvers, Massachusetts 01923

Re: K230156

Trade/Device Name: 5F Launcher Guide Catheter, 6F Launcher Guide Catheter, 7F Launcher Guide Catheter
Regulation Number: 21 CFR 870.1250
Regulation Name: Percutaneous Catheter
Regulatory Class: Class II
Product Code: DQY
Dated: June 2, 2023
Received: June 2, 2023

Dear Shalin Parikh:

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-reportingcombination-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-reportingmdr-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/medicaldevices/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-regulatoryassistance/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,

Lydia S. Digitally signed b Lydia S. Glaw -S Date: 2023.06.30 11:55:45 -04'00' Digitally signed by 11:55:45 -04'00'

Lydia Glaw 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

Indications for Use

510(k) Number *(if known)* K230156

Device Name

5F Launcher Guide Catheter

6F Launcher Guide Catheter

7F Launcher Guide Catheter & 8F Launcher Guide Catheter

Indications for Use (Describe)

The Medtronic guide catheter is designed to provide a pathway through which therapeutic devices are introduced. The guide catheter is intended to be used in the coronary or peripheral vascular system.

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 (As required by 21 CFR 807.92)

510(k) Number:	K230156				
510(k) Type:	Special 510(k)				
Submitter:	Medtronic Vascular 37A Cherry Hill Drive, Danvers, Massachusetts 01923, USA				
Contact Person:	Name: Shalin Parikh				
	Designation: Senic	or Regulatory Affairs S	pecialist		
	Email : shalin.a.pa	rikh@medtronic.com			
	Email : shalin.a.parikh@medtronic.com Phone: (978) 739-3047 June 2, 2023 1. 5F Launcher [™] Guide Catheter				
Date Prepared:	June 2, 2023				
Trade Name(s):	 5F Launcher[™] Guide Catheter 6F Launcher[™] Guide Catheter 7F Launcher[™] Guide Catheter 8F Launcher[™] Guide Catheter 				
Common Name:	Percutaneous Guid	de Catheter			
Classification	Percutaneous, Catheter				
Name:	Class II per 21 CFR §870.1250				
	Product Code: DQ				
Predicate Device:	510(k) Number	Device Name	Manufacturer	Product Code	
	K022764 (2002)	7F Launcher Guide Catheter	Medtronic Vascular	DQY	

This predicate has not been subject to a design-related recall.



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Reference Devices:

510(k) Number	Device Name	Manufacturer	Product
			Code
K132673 (2013)	5F Launcher Guide	Medtronic	DQY
	Catheter	Vascular	
K132673 (2013)	6F Launcher Guide	Medtronic	DQY
	Catheter	Vascular	
K103386 (2010)	8F Launcher Guide	Medtronic	DQY
	Catheter	Vascular	

Device Description: Launcher Guide Catheters are comprised of a cylindrical catheter having a proximal and distal end. A single lumen extends from the proximal to the distal end of the catheter. The distal end is the section of the catheter towards the tip and the proximal end is towards the hub and strain relief. The guide catheter is comprised of a luer hub, strain relief, shaft, segments, tungsten marker band, sleeve, and soft tip. The catheter shaft is made of three distinct layers. The guide catheter is available in various lengths ranging from 45 cm to 130 cm and four French sizes [5F, 6F, 7F, and 8F]. Launcher Guide Catheters have a lubricious inner lumen that runs from the proximal to the distal end of the catheter via a lubricious liner material or coating on the inner lumen.

IntendedThe Medtronic Guide Catheter is designed to provide a pathway through whichUse/Indications fortherapeutic devices are introduced. The guide catheter is intended to be usedUse:in the coronary or peripheral vascular system.

Comparison to the predicate devices and predicate device are substantially equivalent. The predicate devices: The subject device is Medtronic Vascular's own legally marketed device. The indications for use/intended use of the subject device and predicate device is same. The catheter shaft design of subject devices is identical to that of predicate device. The components of catheter shaft, distal end and proximal end are the same and the devices have same fundamental operating principle. There are no changes to the sterilization method, sterility assurance level, packaging process, packaging materials, packaging configuration and shelf life of the subject devices in comparison to the predicate devices. The differences in catheter's dimensional, performance and materials related technological characteristics identified between the subject (modified) devices and the predicate (previously cleared) device do not raise different questions of safety and effectiveness.

Launcher Guide Catheter Special 510(k) Summary

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Summary of Nonclinical Data/Performance Testing: The following tests were performed to evaluate and demonstrate substantial equivalence. The necessary test performed met the acceptance criteria and demonstrated that there are no safety or effectiveness concerns. The following tests were performed:

Biocompatibility Assessment

The biocompatibility evaluation for Launcher Guide Catheter was conducted in accordance with the FDA Guidance "Use of International Standard ISO 10993-1,"Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk management process" dated September 04, 2020. The biological evaluation included the following:

- 1) Cytotoxicity
- 2) Sensitization
- 3) Intracutaneous Reactivity
- 4) Material-Mediated Pyrogenicity
- 5) Hemocompatibility
- 6) Acute Systemic Toxicity

Product Performance Evaluation [Dimensional & Performance]

- 1) Inner Diameters (shaft, tip, & hub*)
- 2) Outer Diameters (shaft, segment, soft tip sleeve, & segment/shaft overlap)
- 3) Total Segment Length
- 4) Effective Length*
- 5) Exposed Tip Length
- 6) Luer Connector Performance*
- 7) Leak Resistance*
- 8) Draw-through stiffness of primary and secondary curve
- 9) Shaft bending stiffness & bending kink resistance (Body temperature and room temperature)
- 10) Arch bending stiffness & bending kink resistance (Body temperature and room temperature)
- 11) Shaft & distal segment crush resistance
- 12) Torsional Stiffness, Rotational Kink Angle, and Rotations to Separation
- 13) Curve retention after simulated seating
- 14) Peak shaft & segment tensile load

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- 15) Peak soft tip tensile load
- 16) Soft tip stiffness
- 17) Peak hub/shaft tensile load*
- 18) Internal lubricity

*These tests were performed on the subject device to demonstrate substantial equivalence to the predicate device for the modifications in this premarket notification. Relevant standards for these tests detailed below.

Luer Connector Performance testing conducted in accordance with the following standards:

- ISO 594-1 First edition 1986-06-15 Conical fittings with a 6% (Luer) taper for syringes, needles and certain other medical equipment - Part 1: General requirements
- ISO 594-2 Second edition 1998-09-01 Conical fittings with a 6% (Luer) taper for syringes, needles and certain other medical equipment Part 2: Lock fittings
- EN ISO 80369-7 Second edition 2021-05 Small-bore connectors for liquids and gases in healthcare applications Part 7: Connectors for intravascular or hypodermic applications

Leak Resistance and Peak Hub/Shaft Tensile Load testing conducted in accordance with the following standard:

 ISO 10555-1 Second Edition 2013+A1:2017 Intravascular Catheters – Sterile and Single-Use Catheters – Part 1: General Requirements – Amendment 1

The performance testing along with biocompatibility testing demonstrated that the subject device Launcher Guide Catheter is substantially equivalent to the predicate device.

Summary of Clinical No clinical testing data was required for this special 510k submission.

Data:

Conclusion fromThe differences between subject devices and predicate devices have beenTesting Data:evaluated through non-clinical testing. Based on the results of the testing
performed, the subject devices are demonstrated as substantially equivalent
to the predicate device.

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