

October 19, 2018

Medtronic Vascular Mahek Laxmipriya Regulatory Affairs Manager 3576 Unocal Place Santa Rosa, California 95403

Re: P100040/S036

Trade/Device Name: Valiant Navion<sup>TM</sup> Thoracic Stent Graft System

Product Code: MIH Filed: April 23, 2018

Amended: July 13, 2018, August 6, 2018

## Dear Mahek Laxmipriya:

The Center for Devices and Radiological Health (CDRH) of the Food and Drug Administration (FDA) has completed its review of your premarket approval application (PMA) supplement for the Valiant Navion<sup>TM</sup> Thoracic Stent Graft System, a modified device design from the Valiant Thoracic Stent Graft with Captivia Delivery System. This device is indicated for the endovascular repair of all lesions of the descending thoracic aorta (DTA) in patients having the appropriate anatomy including:

- iliac or femoral artery access vessel morphology that is compatible with vascular access techniques, devices, or accessories;
- nonaneurysmal aortic diameter in the range of:
  - o 16 mm to 42 mm for fusiform and saccular aneurysms/penetrating ulcers
  - o 16 mm to 44 mm for blunt traumatic aortic injuries
  - o 19 mm to 45 mm for dissections;
- proximal landing zone (nonaneurysmal aortic proximal neck length for fusiform and saccular aneurysms/penetrating ulcers *or* nondissected length of aorta proximal to the primary tear for blunt traumatic aortic injuries and dissections) of:
  - ≥ 20mm for FreeFlo configuration
  - ≥ 25mm for CoveredSeal configuration; and
- nonaneurysmal aortic distal neck length ≥ 20mm for FreeFlo and CoveredSeal configurations for fusiform and saccular aneurysms/penetrating ulcers.

We are pleased to inform you that the PMA supplement is approved. You may begin commercial distribution of the device in accordance with the conditions of approval described below. Although this letter refers to

your product as a device, please be aware that some approved products may instead be combination products. The Premarket Approval Database located at <a href="https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfPMA/pma.cfm">https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfPMA/pma.cfm</a> identifies combination product submissions.

The sale and distribution of this device are restricted to prescription use in accordance with 21 CFR 801.109 and under section 515(d)(1)(B)(ii) of the Federal Food, Drug, and Cosmetic Act (the act). The device is further restricted under section 515(d)(1)(B)(ii) of the act insofar as the labeling must specify the specific training or experience practitioners need in order to use the device. FDA has determined that these restrictions on sale and distribution are necessary to provide reasonable assurance of the safety and effectiveness of the device. Your device is therefore a restricted device subject to the requirements in sections 502(q) and (r) of the act, in addition to the many other FDA requirements governing the manufacture, distribution, and marketing of devices.

Expiration dating for this device has been established and approved at 2 years.

Continued approval of the PMA is contingent upon the submission of periodic reports, required under 21 CFR 814.84, at intervals of one year (unless otherwise specified) from the date of approval of the original PMA. This report, identified as "Annual Report" and bearing the applicable PMA reference number, should be submitted to the address below. The Annual Report should indicate the beginning and ending date of the period covered by the report and should include the information required by 21 CFR 814.84.

In addition to the above, and in order to provide continued reasonable assurance of the safety and effectiveness of the PMA device, the Annual Report must include, separately for each model number (if applicable), the number of devices sold and distributed during the reporting period, including those distributed to distributors. The distribution data will serve as a denominator and provide necessary context for FDA to ascertain the frequency and prevalence of adverse events, as FDA evaluates the continued safety and effectiveness of the device.

You have agreed to include information regarding the Valiant Navion Thoracic Stent Graft System in the Valiant Annual Clinical Update, which you provide to physician users at least annually and include as part of the Valiant Annual Report per previous approval orders for this PMA. The information you have agreed to include regarding the Valiant Navion Thoracic Stent Graft System is as follows:

- Information from your Valiant EVO clinical study. At a minimum, this will include the number of patients for whom data are available and a summary of lesion-related deaths, aortic ruptures, aneurysm enlargements, major device effects, losses of device integrity, endoleaks, conversion to open surgical repair, and secondary interventions for these patients, including the reasons for the interventions.
- Relevant information from commercial experience of the Valiant Navion Thoracic Stent Graft System within and outside of the U.S.
- A summary of any explant analysis findings regarding the Valiant Navion Thoracic Stent Graft System.

You have agreed to include this information in addition to the information required per the previous approval orders for this PMA.

In addition to the Annual Report requirements, you must provide the following data in post-approval study (PAS) reports for each PAS listed below. Separate PAS Progress Reports must be submitted for each study

annually, unless otherwise specified by FDA. Each report, identified as a "PMA Post-Approval Study Report" in accordance with how the study is identified below and bearing the applicable PMA reference number, should be submitted to the address below.

**Continued Follow-Up Valiant EVO Study**: The Continued Follow-Up Valiant EVO Study is a prospective, non-randomized, multi-center, US and OUS, single arm, confirmatory study.

The purpose of the Continued Follow-Up Valiant EVO Study is to obtain longer-term follow-up on the use of the Valiant Navion Thoracic Stent Graft System to treat descending thoracic aortic aneurysms. Five-year follow-up on the surviving patients from the 100 subjects enrolled in the IDE study, in accordance with the IDE protocol, will be reported. Clinical outcomes will include all-cause mortality, lesion-related mortality, major device effects, secondary procedures, conversion to open repair, occlusions and stenoses, endoleaks, stent graft migration, aneurysm expansion, aortic rupture, and losses of device integrity. These endpoints will be analyzed descriptively on a yearly basis.

Be advised that the failure to conduct any such study in compliance with the good clinical laboratory practices in 21 CFR part 58 (if a non-clinical study subject to part 58) or the institutional review board regulations in 21 CFR part 56 and the informed consent regulations in 21 CFR part 50 (if a clinical study involving human subjects) may be grounds for FDA withdrawal of approval of the PMA.

Be advised that protocol information, interim and final results will be published on the Post Approval Study Webpage <a href="http://www.fda.gov/devicepostapproval">http://www.fda.gov/devicepostapproval</a>.

In addition, the results from any post approval study should be included in the labeling as these data become available. Any updated labeling must be submitted to FDA in the form of a PMA Supplement. For more information on post-approval studies, see the FDA guidance document entitled, "Procedures for Handling Post-Approval Studies Imposed by PMA Order"

(http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/GuidanceDocuments/ucm070974.htm).

This is a reminder that as of September 24, 2014, class III devices are subject to certain provisions of the final UDI rule. These provisions include the requirement to provide a UDI on the device label and packages (21 CFR 801.20), format dates on the device label in accordance with 21 CFR 801.18, and submit data to the Global Unique Device Identification Database (GUDID) (21 CFR 830 Subpart E). Additionally, 21 CFR 814.84 (b)(4) requires PMA annual reports submitted after September 24, 2014, to identify each device identifier currently in use for the subject device, and the device identifiers for devices that have been discontinued since the previous periodic report. It is not necessary to identify any device identifier discontinued prior to December 23, 2013. Combination Products may also be subject to UDI requirements (see 21 CFR 801.30). For more information on these requirements, please see the UDI website, http://www.fda.gov/udi.

Before making any change affecting the safety or effectiveness of the PMA device, you must submit a PMA supplement or an alternate submission (30-day notice) in accordance with 21 CFR 814.39. All PMA supplements and alternate submissions (30-day notice) must comply with the applicable requirements in 21 CFR 814.39. For more information, please refer to the FDA guidance document entitled, "Modifications to Devices Subject to Premarket Approval (PMA) - The PMA Supplement Decision-Making Process" <a href="http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/GuidanceDocuments/ucm089274.htm">http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/GuidanceDocuments/ucm089274.htm</a>.

You are reminded that many FDA requirements govern the manufacture, distribution, and marketing of devices. For example, in accordance with the Medical Device Reporting (MDR) regulation, 21 CFR 803.50 and 21 CFR 803.52 for devices or postmarketing safety reporting (21 CFR 4, Subpart B) for combination products, you are required to report adverse events for this device. Manufacturers of medical devices, including in vitro diagnostic devices, are required to report to FDA no later than 30 calendar days after the day they receive or otherwise becomes aware of information, from any source, that reasonably suggests that one of their marketed devices:

- 1. May have caused or contributed to a death or serious injury; or
- 2. Has malfunctioned and such device or similar device marketed by the manufacturer would be likely to cause or contribute to a death or serious injury if the malfunction were to recur.

Additional information on MDR, including how, when, and where to report, is available at <a href="http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm.">http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm.</a> and on combination product postmarketing safety reporting is available at (see <a href="https://www.fda.gov/CombinationProducts/GuidanceRegulatoryInformation/ucm597488.htm">https://www.fda.gov/CombinationProducts/GuidanceRegulatoryInformation/ucm597488.htm</a>).

In accordance with the recall requirements specified in 21 CFR 806.10 for devices or the postmarketing safety reporting requirements (21 CFR 4, Subpart B) for combination products, you are required to submit a written report to FDA of any correction or removal of this device initiated by you to: (1) reduce a risk to health posed by the device; or (2) remedy a violation of the act caused by the device which may present a risk to health, with certain exceptions specified in 21 CFR 806.10(a)(2). Additional information on recalls is available at

http://www.fda.gov/Safety/Recalls/IndustryGuidance/default.htm.

CDRH does not evaluate information related to contract liability warranties. We remind you; however, that device labeling must be truthful and not misleading. CDRH will notify the public of its decision to approve your PMA by making available, among other information, a summary of the safety and effectiveness data upon which the approval is based. The information can be found on the FDA CDRH Internet HomePage located at

http://www.fda.gov/MedicalDevices/ProductsandMedicalProcedures/DeviceApprovalsandClearances/PMA Approvals/default.htm. Written requests for this information can also be made to the Food and Drug Administration, Dockets Management Branch, (HFA-305), 5630 Fishers Lane, Rm. 1061, Rockville, MD 20852. The written request should include the PMA number or docket number. Within 30 days from the date that this information is placed on the Internet, any interested person may seek review of this decision by submitting a petition for review under section 515(g) of the act and requesting either a hearing or review by an independent advisory committee. FDA may, for good cause, extend this 30-day filing period.

Failure to comply with any post-approval requirement constitutes a ground for withdrawal of approval of a PMA. The introduction or delivery for introduction into interstate commerce of a device that is not in compliance with its conditions of approval is a violation of law.

You are reminded that, as soon as possible and before commercial distribution of your device, you must submit an amendment to this PMA submission with a copy of all final labeling. Final labeling that is

identical to the labeling approved in draft form will not routinely be reviewed by FDA staff when accompanied by a cover letter stating that the final labeling is identical to the labeling approved in draft form. If the final labeling is not identical, any changes from the final draft labeling should be highlighted and explained in the amendment.

All required documents should be submitted, unless otherwise specified, to the address below and should reference the above PMA number to facilitate processing.

U.S. Food and Drug Administration Center for Devices and Radiological Health Document Control Center - WO66-G609 10903 New Hampshire Avenue Silver Spring, MD 20993-0002

If you have any questions concerning this approval order, please contact Stacy Monza at 301-796-2783 or <a href="mailto:Stacy.Monza@fda.hhs.gov">Stacy.Monza@fda.hhs.gov</a>.

Sincerely,

Nicole G. Ibrahim -S

for Bram D. Zuckerman, M.D.
Director
Division of Cardiovascular Devices
Office of Device Evaluation
Center for Devices and Radiological Health