

Medtronic Announces U.S. Renal Denervation Pivotal Trial Fails to Meet Primary Efficacy Endpoint While Meeting Primary Safety Endpoint

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MINNEAPOLIS - January 9, 2014 - Medtronic, Inc. (NYSE: MDT) today announced that its U.S. pivotal trial in renal denervation for treatment-resistant hypertension, SYMPPLICITY HTN-3, failed to meet its primary efficacy endpoint. The trial met its primary safety endpoint, and the trial's Data Safety Monitoring Board (DSMB) concluded that there were no safety concerns in the study.

"SYMPPLICITY HTN-3 met its primary safety endpoint related to the incidence of major adverse events one month following randomization and renal artery stenosis to six months," said Deepak L. Bhatt, M.D., M.P.H., executive director, Interventional Cardiovascular Programs, Brigham and Women's Hospital Heart and Vascular Center, professor of medicine, Harvard Medical School, and co-principal investigator of SYMPPLICITY HTN-3. "Importantly, however, the trial did not meet its primary efficacy endpoint."

George Bakris, M.D., professor of medicine and director of the ASH Comprehensive Hypertension Center at the University of Chicago Medicine, past-president of the American Society of Hypertension, and co-principal investigator of SYMPPLICITY HTN-3 stated, "While it's disappointing the trial did not meet its primary efficacy endpoint, this is the most rigorous renal denervation clinical trial conducted to date, and the first of its kind to include a sham-control group. We look forward to advancing these data into the peer-review process and will submit these findings for presentation and scientific discussion at an upcoming scientific congress."

In light of the product's demonstrated safety profile, including the SYMPPLICITY HTN-3 findings, no specific action is currently indicated for patients who have had the renal denervation procedure with the Symplicity system. Patients should consult with their physician regarding any questions they may have about their treatment.

Based on these clinical trial findings, Medtronic intends to formulate a panel of independent advisors made up of physicians and researchers who will be asked to make recommendations about the future of the global hypertension clinical trial program, as well as provide advice on continued physician and patient access to the Symplicity technology in countries with regulatory approvals.

Pending this panel review, the company intends to:

- Suspend enrollment in the three countries where renal denervation hypertension trials are being conducted for regulatory approvals (SYMPPLICITY HTN-4 in the U.S., HTN-Japan and HTN-India).
- Begin informing clinical trial sites and investigators, global regulatory bodies, and customers of these findings and decisions.
- Continue to ensure patient access to the Symplicity technology at the discretion of their physicians in markets where it is approved.
- Continue the Global SYMPPLICITY post-market surveillance registry and renal denervation studies evaluating other non-hypertension indications.

"We are disappointed that the clinical trial failed to meet its primary efficacy endpoint," said Dr. Rick Kuntz, chief medical officer, Medtronic. "We believe this course of action is the most prudent and will help us thoroughly evaluate these findings and determine the appropriate next steps for renal denervation therapy. We would like to thank the patients and investigators for their participation in the trial and their important contribution to the field of hypertension research."

The company is evaluating the carrying value of the renal denervation assets and based on the above trial results, believes a one-time impairment charge in the future will be likely. The company today reiterated its previously communicated revenue outlook and diluted earnings per share guidance for fiscal year 2014.

About the SYMPPLICITY HTN-3 Clinical Trial

SYMPPLICITY HTN-3 is the first blinded, randomized, controlled trial designed to evaluate the safety and effectiveness of renal

denervation with the investigational Symplicity renal denervation system in patients with treatment-resistant hypertension and systolic blood pressure higher than 160 mmHg in the United States. Follow-up for all patients randomized in the trial will continue as planned out to five years.

The study randomized 535 treatment-resistant hypertension patients in 87 U.S. medical centers. People receiving the investigational treatment were compared with a sham-control group that did not receive treatment, with all patients continuing to take their blood pressure medications. Patients enrolled in the SYMPLICITY HTN-3 trial were randomly assigned to a group, with two out of three assigned to the treatment group and one out of three assigned to the sham-control group. In addition, those in the control group had the option to receive the treatment after the six-month assessment of the primary endpoint. The primary endpoints of the study are the change in office blood pressure from baseline to six months and incidence of major adverse events.

Further details about the SYMPLICITY HTN-3 Clinical Trial can be found on www.clinicaltrials.gov (Identifier: NCT01418261). Also, the full study design is published in *Clinical Cardiology* in February 2012; (35: 528-35).

About the Symplicity(TM) Renal Denervation System

The Symplicity(TM) renal denervation system consists of a flexible catheter and proprietary generator. In an endovascular procedure, similar to an angioplasty, the physician inserts the small, flexible Symplicity catheter into the femoral artery in the upper thigh and threads it into both renal arteries in turn. Once the catheter tip is in place within the renal artery, the Symplicity generator is activated to deliver a controlled, low-power radio-frequency (RF) energy routine according to a proprietary algorithm aiming to deactivate the surrounding renal nerves. This, in turn, is intended to reduce hyper-activation of the sympathetic nervous system, which is an established contributor to chronic hypertension. The procedure does not involve a permanent implant.

About Medtronic

Medtronic, Inc. (www.medtronic.com), headquartered in Minneapolis, is the global leader in medical technology - alleviating pain, restoring health, and extending life for millions of people around the world.

Any forward-looking statements are subject to risks and uncertainties such as those described in Medtronic's periodic reports on file with the Securities and Exchange Commission. Actual results may differ materially from anticipated results. Earnings per share guidance excludes adjustments relating to the fair value of contingent consideration payments, charitable donations to the Medtronic Foundation, restructuring charges, certain litigation charges, and any unusual charges or gains that might occur during the fiscal year. The guidance provided only reflects information available to Medtronic at this time.

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