## Medtronic News

Landmark SURTAVI Clinical Trial Shows Transcatheter Aortic Valve Replacement (TAVR) with the Self-Expanding Platform Performs as Well as Surgery in Intermediate Risk Severe Aortic Stenosis Patients

Late-Breaking SURTAVI Pivotal Clinical Trial Presented at ACC.17 and Published in NEJM Meets Primary Endpoint at Two Years

DUBLIN and WASHINGTON, D.C. - March 17, 2017 - Medtronic plc (NYSE: MDT) today unveiled first-ever clinical data from the Surgical Replacement and Transcatheter Aortic Valve Implantation (SURTAVI) Trial, which was presented at the American College of Cardiology (ACC) 66th Annual Scientific Session and published simultaneously in *The New England Journal of Medicine (NEJM)1*.

Data from the trial showed the Medtronic self-expanding TAVR platform met its primary endpoint of all-cause mortality or disabling stroke at two years. Rates of all-cause mortality or disabling stroke at two years were similar to surgical aortic valve replacement (SAVR) (12.6 percent for TAVR versus 14.0 percent for SAVR; *posterior probability of non-inferiority* >0.999). The minimally-invasive TAVR procedure also demonstrated significantly better mean aortic valve gradient (7.8 mm Hg vs. 11.8 mm Hg; p<0.001) at two years, while neither TAVR- nor SAVR-treated patients displayed evidence of structural valve deterioration at two years.

"We observed excellent outcomes in both arms of the study and were pleased to see the self-expanding platform perform as well as the gold standard of surgery in this intermediate risk patient population," said Michael Reardon, M.D., professor of cardiothoracic surgery and Allison Family Distinguished Chair of Cardiovascular Research at Houston Methodist DeBakey Heart & Vascular Center, principal investigator and author of the SURTAVI trial. "Importantly, near-term results showed critical insights for the therapy. In the first 30 days, patients treated with TAVR experienced statistically lower rates of stroke, lower rates of new onset atrial fibrillation, a quicker hospital discharge, less acute kidney injury and transfusions, and an improved quality of life. SAVR was associated with less aortic regurgitation, major vascular complications and need for permanent pacemaker implantation."

The SURTAVI trial is a global, prospective, multi-center, randomized study evaluating the Medtronic CoreValve(TM) System and CoreValve(TM) Evolut(TM) R System versus open-heart surgery at two years. The SURTAVI trial enrolled intermediate risk patients and compared 863 TAVR patients (STS: 4.4 percent) to 794 SAVR patients (STS: 4.5 percent).

"This is a landmark trial demonstrating our commitment to generating clinical evidence to support the expansion of global patient access to life-changing therapies such as TAVR," said Rhonda Robb, vice president and general manager of the Heart Valve Therapies business, which is part of the Cardiac and Vascular Group at Medtronic. "We are delighted to have met the primary endpoint in the SURTAVI trial, the results of which have been submitted to the FDA to support an intermediate risk label expansion."

The use of the CoreValve and Evolut R systems in intermediate risk severe aortic stenosis patients is investigational only in the U.S.

Following the launch of the self-expanding CoreValve System in the U. S. in 2014, the CoreValve Evolut R System became the first-and-only recapturable and repositionable TAVR device approved in the U.S. for severe aortic stenosis patients at a high or extreme risk for surgery in 2015. The Evolut R system received CE (*Conformité Européene*) Mark for intermediate risk severe aortic stenosis patients in 2016.

In collaboration with leading clinicians, researchers and scientists worldwide, Medtronic offers the broadest range of innovative

medical technology for the interventional and surgical treatment of cardiovascular disease and cardiac arrhythmias. The company strives to offer products and services that deliver clinical and economic value to healthcare consumers and providers around the world.

## **About Medtronic**

Medtronic plc (<u>www.medtronic.com</u>), headquartered in Dublin, Ireland, is among the world's largest medical technology, services and solutions companies - alleviating pain, restoring health and extending life for millions of people around the world. Medtronic employs more than 88,000 people worldwide, serving physicians, hospitals and patients in more than 160 countries. The company is focused on collaborating with stakeholders around the world to take healthcare Further, Together.

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.

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1 Reardon MJ, Van Mieghem NM, Popma JJ, et al. Surgical or transcatheter aortic-valve replacement in intermediate-risk patients. *N Engl J Med.* DOI: 10.1056/NEJMoa1700456.

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