LivaNova

Health innovation that matters

NEWS RELEASE

LivaNova Initiates BELIEVE Aortic Heart Valve Study in the U.S. and Canada

Company is advancing clinical research with three aortic valve studies

London, January 11, 2018 – LivaNova PLC (NASDAQ:LIVN) ("LivaNova" or the "Company"), a market-leading medical technology company, today announced that the first patient has been enrolled in the **Be**havior of Valve **L**eaflets and the **I**ncidence of R**e**duced Mobility Post-Surgical Aortic Val**ve** Implant Study ("BELIEVE"). This study is a post-market, prospective, interventional, multi-center trial designed to report the overall incidence of reduced leaflet motion identified by CT imaging in patients receiving a commercially approved LivaNova bioprosthetic aortic heart valve.

"Thrombus formation on valve leaflets has been shown to occur in some patients receiving prosthetic tissue valve replacement via transcatheter or open surgical procedures and may lead to leaflet thickening and immobility," said Dr. Brian Duncan, LivaNova's Vice President of Medical Affairs in Cardiac Surgery. "BELIEVE is the first trial to examine this process with advanced imaging and a standardized approach to anticoagulation in patients undergoing implantation of LivaNova bioprosthetic aortic valves."

The BELIEVE study is expected to enroll approximately 230 patients at 15 sites from the U.S and Canada to ascertain whether valve leaflets are fully operational following surgery. Four-dimensional, volume-rendered CT scans will be obtained from patients at a minimum of 30 days after they discontinue anticoagulation or dual antiplatelet therapy. There will be one year of follow-up for all patients.

"The BELIEVE study is designed to enhance the understanding of reduced leaflet motion phenomenon, while providing important information to clinicians and patients to ensure the best possible outcomes after surgical aortic valve replacement," said Dr. Basel Ramlawi, who enrolled the first patient in BELIEVE and is the attending cardiothoracic surgeon and chairman of The Heart & Vascular Center at Valley Health System in Winchester, Va., in the U.S.

In addition to BELIEVE, LivaNova is sponsoring two global studies to advance clinical evidence for aortic valve replacement. The **S**orin **U**niversal **Re**gistry on **A**ortic **V**alve **R**eplacement ("SURE-AVR") is a post-market, international, prospective, multi-center observational registry collecting clinical outcomes data from up to 5,000 patients implanted with LivaNova aortic

devices (bioprosthetic or mechanical). Currently, more than 1,400 patients have been enrolled in the registry from 35 active sites in 13 countries. U.S. sites are currently being activated within this registry, which will follow all patients through five years of follow-up.

The **Per**ceval® **S**utureless **I**mplant vs. **St**andard **A**ortic **V**alve **R**eplacement ("PERSIST-AVR") Study is a global, randomized controlled trial in the surgical treatment of aortic valve replacement. More than 1,200 patients will be randomized to receive either a LivaNova sutureless valve, Perceval, or a standard, sutured, stented bioprosthetic valve on market (LivaNova or other). Currently, more than 570 patients have been enrolled in the study from 43 active sites in multiple countries. U.S. sites are currently being activated within this study, which will follow all patients through five years of follow-up. The primary endpoint of the study is one year freedom from major adverse cardiovascular and cerebral events (composite endpoint of all cause deaths, myocardial infarction, stroke and valve-related re-intervention).

About LivaNova

LivaNova PLC is a global medical technology company built on nearly five decades of experience and a relentless commitment to improve the lives of patients around the world. LivaNova's advanced technologies and breakthrough treatments provide meaningful solutions for the benefit of patients, healthcare professionals and healthcare systems. Headquartered in London and with a presence in more than 100 countries worldwide, the company employs more than 4,500 employees. LivaNova operates as three business franchises: Cardiac Surgery, Neuromodulation and Cardiac Rhythm Management, with operating headquarters in Mirandola (Italy), Houston (U.S.A.) and Clamart (France), respectively.

For more information, please visit www.livanova.com.

Safe Harbor Statement

This news release may include certain statements concerning expectations for the future that are forward-looking statements as defined by U.S. federal law. Such forward-looking statements are subject to a variety of known and unknown risks, uncertainties and other factors that are difficult to predict and many of which are beyond management's control. An extensive list of factors that can affect future results are discussed in LivaNova's Annual Report on Form 10-K and other documents filed from time to time with the Securities and Exchange Commission. LivaNova undertakes no obligation to update or revise any forward-looking statement to reflect new information or events. Actual results may differ materially from anticipated results.

LivaNova PLC Investor Relations and Media
Karen King, +1 (281) 228-7262
Vice President, Investor Relations & Corporate Communications

Deanna Wilke, +1 (281) 727-2764
Corporate External Communications Manager
corporate.communications@livanova.com

###