



## **4C Medical's Novel Mitral Regurgitation Therapy Highlighted at TVT Innovation Forum**

*Presentation Featured the Company's Supra-Annular Implant, the First Transcatheter Mitral Regurgitation Therapy with Atrial-Only Fixation*

BROOKLYN PARK, Minn. – June 15, 2017 – 4C Medical Technologies, Inc., a developer of minimally invasive therapies for structural heart disease, today announced that its medical device therapy for mitral regurgitation (MR) was featured in the Transcatheter Valve Therapies (TVT) Innovation Forum which took place June 14, 2017 in Chicago, IL. The company is developing the first MR therapy that preserves the native mitral valve and left ventricle using a supra-annular, atrial-only fixation technology. The novel design eliminates known issues of current transcatheter mitral valve replacement (TMVR) technologies which rely on placement and fixation in the native mitral annulus and left ventricle.

“4C Medical’s mitral valve is an innovative and simple solution for a very common problem, and its unique mechanism will allow treatment of many patients not suitable for current TMVR devices,” said Philippe Généreux, MD. “30-day pre-clinical results are promising and demonstrate concept feasibility and safety, with no hemodynamic compromise, no thrombus, and mild-to-no MR as confirmed by echocardiography.”

Dr. Généreux presented “4C Medical Valve: A Novel Transcatheter MR Treatment Technology” and facilitated subsequent roundtable discussions with audience Q&A. He is Co-Director of the Structural Heart Program at the Gagnon Cardiovascular Institute of Morristown Medical Center (Morristown, NJ) and a practicing Interventional Cardiologist at Hôpital du Sacré-Coeur de Montréal (Montreal, Canada).

“The main challenges encountered by current TMVR devices are related to the complexity of the mitral valve anatomy and the multitude of MR mechanisms,” said Dr. Généreux. “With its supra-annular position in the left atrium, the 4C Medical device preserves the native valve apparatus and avoids all issues related to the complexity and dynamism of the mitral annulus, making the device suitable for patients independent of their MR mechanism. This unique approach promotes healthy left ventricular remodeling and healing, and eliminates the complications that are associated with current TMVR devices, such as left ventricular outflow tract obstruction, device embolization and early device fatigue failure.”

“We are dedicated to innovating therapies for structural heart disease through clinical research in partnership with Key Opinion Leaders,” said Robert Thatcher, CEO of 4C Medical Technologies, Inc. “More than half of symptomatic MR patients are not candidates for surgery, and we are driven to develop new solutions that clinicians can use to improve the quality of life for these patients.”

### **About Mitral Regurgitation**

Mitral regurgitation (MR) is a common heart valve disease affecting nearly 10 percent of Americans aged  $\geq 75$  years.<sup>1</sup> MR occurs when the mitral valve leaflets do not close properly and allow blood in

the left ventricle to leak back into the left atrium. It is a progressive disease and if left untreated, MR can lead to atrial fibrillation, pulmonary hypertension, heart failure and death.

**About 4C Medical Technologies, Inc.**

4C Medical Technologies, Inc. is a medical device company developing minimally invasive therapies for structural heart disease, focusing initially on mitral regurgitation (MR) therapy and subsequently on tricuspid regurgitation therapy. The company's unique supra-annular implant is the first MR therapy with atrial-only fixation, thereby eliminating known issues associated with transcatheter MR replacement technologies which rely on placement and fixation in the native mitral annulus and left ventricle.

1. Nkomo VT, et al. Burden of valvular heart diseases: a population-based study. Lancet. 2006;368:1005-11. doi: 10.1016/S0140-6736(06)69208-8.

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