Chronic Heart Failure

- Chronic heart failure is the #1 cause of death in the developed world
  - >20 million people worldwide
  - 5.7 million Americans
  - 550,000 diagnosed in the US annually
- Ventricular assist devices
  - >20,000 implanted worldwide
  - 2.2 million medically qualify
- **Clinical Limitations:**
  - Suction events
  - Ventricular collapse
  - Intraventricular septum shift
  - Loss of native geometry
VADStent Maintains Left Ventricular Geometry
VADStent

• Prevents suction events
• Maintains intraventricular septum midline
  – Prevent adverse right ventricular remodeling
• Custom shape and size
  – Left ventricle size
  – Right ventricle or atrial devices
  – Congenital Anatomy
Prototype Implanted in Adult Swine

VADStent
- Maintained cavity
- Prevented septal shift
- No arrhythmias
- No ventricular injury

LV collapse  No Collapse
VADStent Preserves Left Ventricular Geometry

- Prevents suction events
- Maintains intraventricular septum - positive right ventricular remodeling

Videos available upon request
Intellectual Property

- UVA TechID: 2016-110
  - Title: Ventricular assist device stent, ventricular assist device, and related methods thereof
  - International patent application no. PCT/US2017/031027 filed May 4, 2017

For further inquiry, please contact:
Heather Bansbach, PhD
Licensing Analyst
hbansbach@virginia.edu
434-982-4191