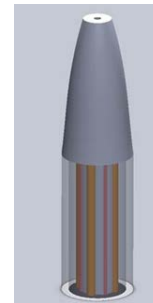
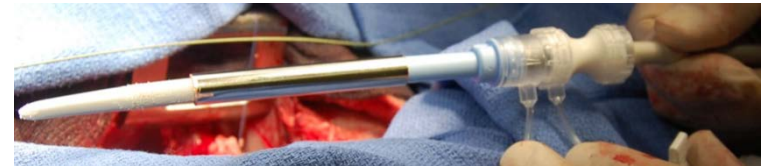


CorAccess – Tissue Strengthening Access Port for Cardiac Surgery

Robert Guyton, M.D.
Murali Padala, Ph.D.

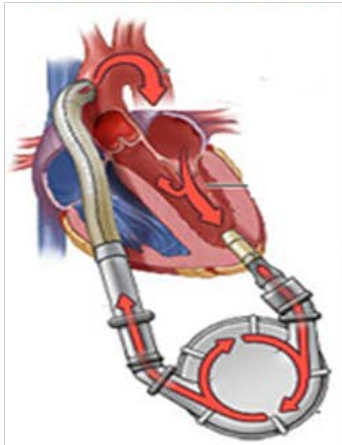
Cale Lennon
Assistant Director
OTT Breakfast Club
December 13th, 2011



Transapical Cardiovascular Devices

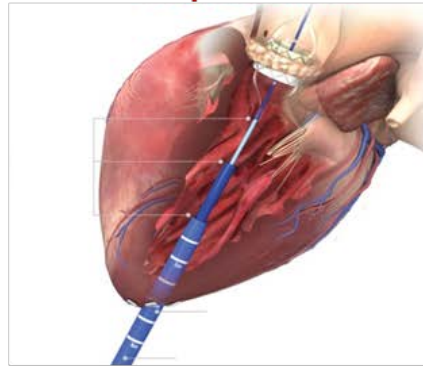
- Simple, direct and less invasive access to left ventricle and valves

Ventricular Assist



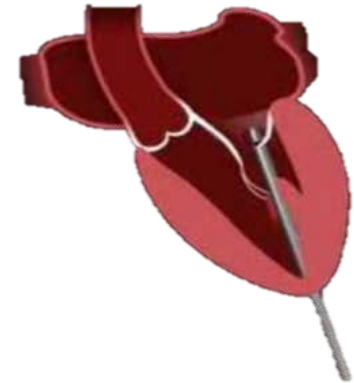
of candidates in U.S. (2012)* 4,500

Transapical Aortic Valve Replacement



91,000

Transapical Mitral Valve Repair



160,000

*Source: Frost & Sullivan

Opportunity: Reducing Transapical Complications

- Ventricular apex thins and weakens in elderly patients/those with chronic heart disease
- Dumont et al.: 29% of TAVR patients had ventricular tearing*
- Risk of rupture during apex closure

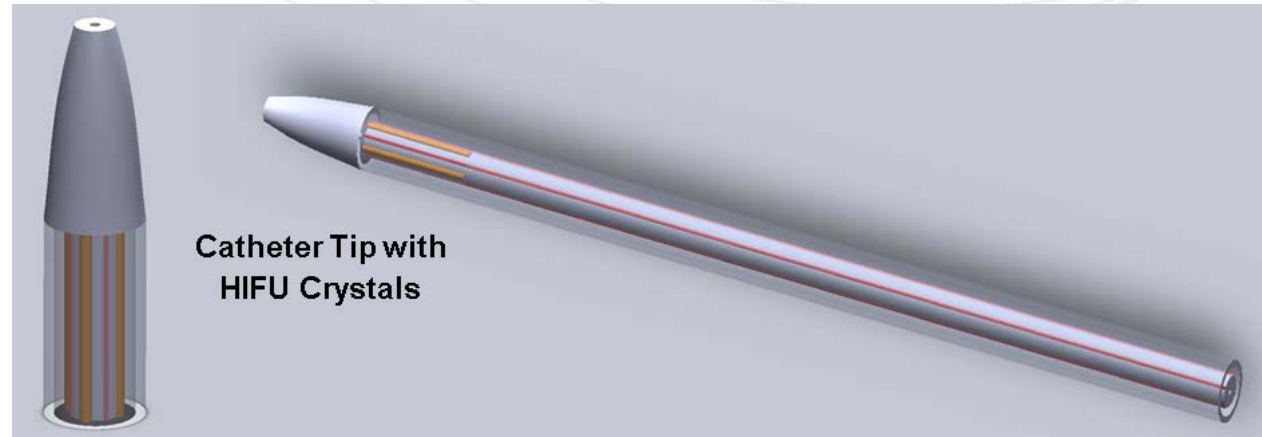


*Journal of Cardiac Surgery 24:295-298 (2009)

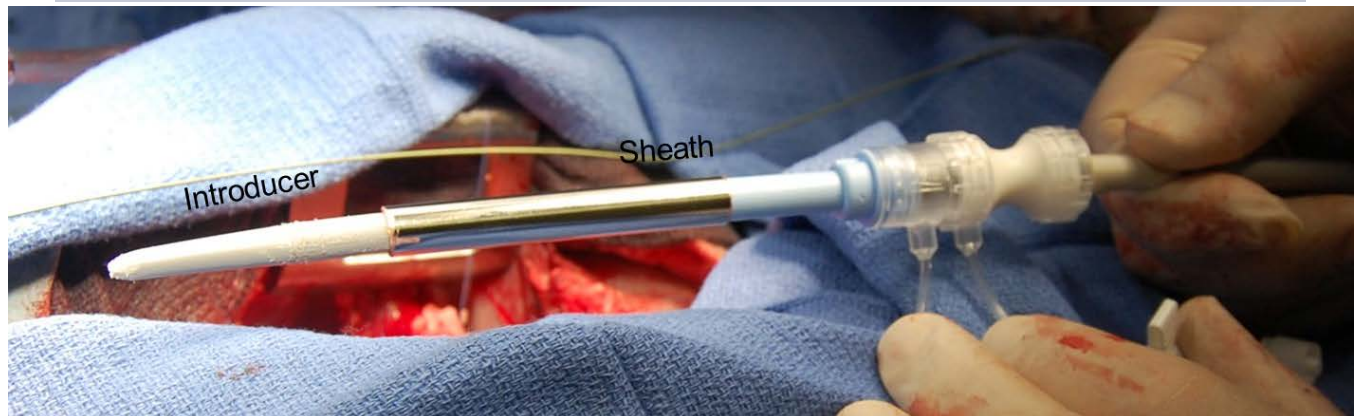
CorAccess Device

- Principle: Tissue strengthening via controlled, localized thermal strengthening

Design Concept

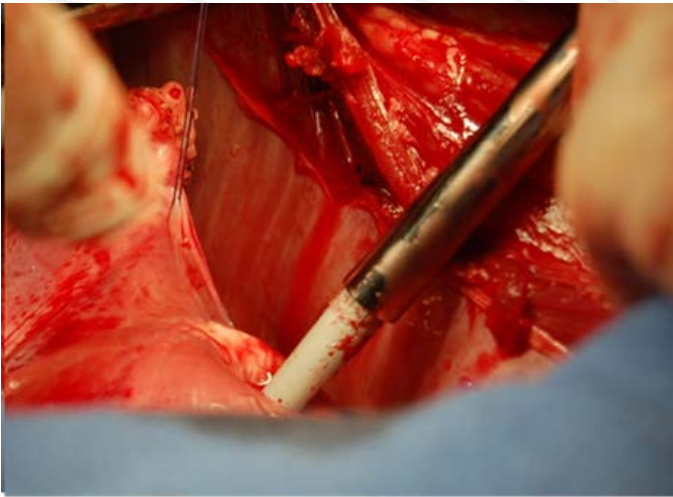


Prototype

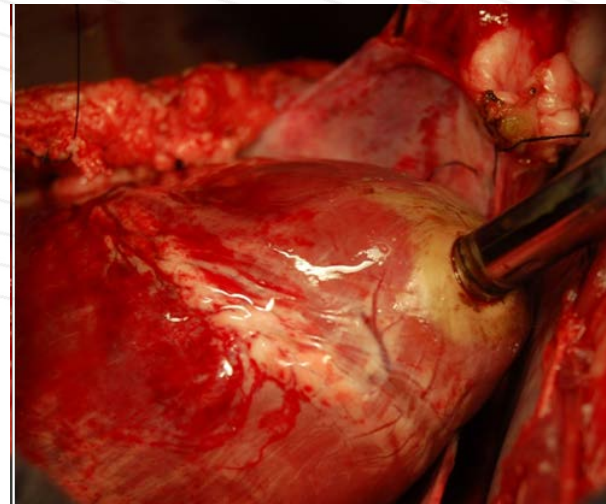


CorAccess – Animal Studies

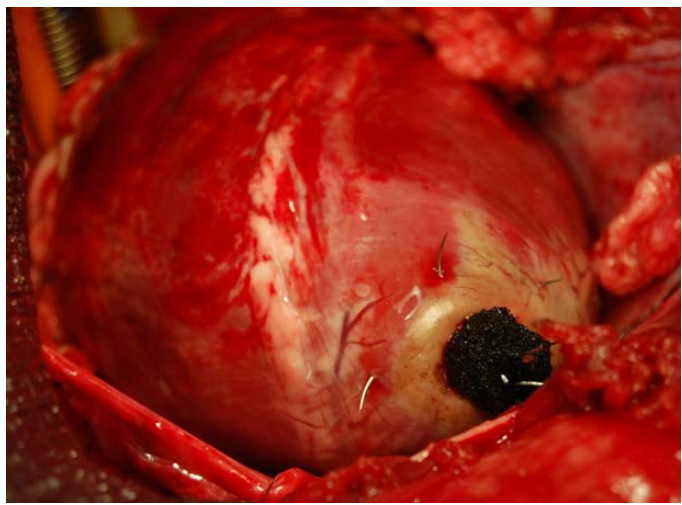
Insertion into LV apex



Localized tissue heating/strengthening



Closure w/biocompatible plug



Safety of Thermal Stabilization

- Apical access already accepted as safe
- Precise, limited treatment area with HIFU
- Ventricle mechanical function preserved
- EKG not affected
- Less tissue trauma compared to suturing

CorAccess Competition

Apical Port Access Systems

- Onset Medical
- Cardious Inc
- Apica
- Cardiovascular
Medical
- CardioVantage
Medical
- Edwards
Lifesciences
- Medtronic



Apical Strengthening Systems

None

Highly Leverageable Technology/IP Platform

(Provisional patent pending through Emory OTT)

CorAccess – Value Proposition

- Reduces procedural risk by increasing the regional myocardial strength
- Improves procedural ease by one-shot closure of the access site
- Enhances patient outcomes by avoiding major surgery