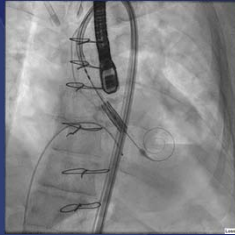
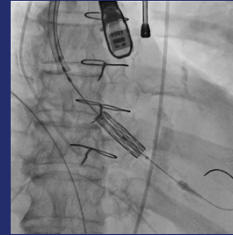




## Structural Heart Disease 2018



Ernesto Ruiz-Rodriguez, M.D.  
Structural Heart Interventions



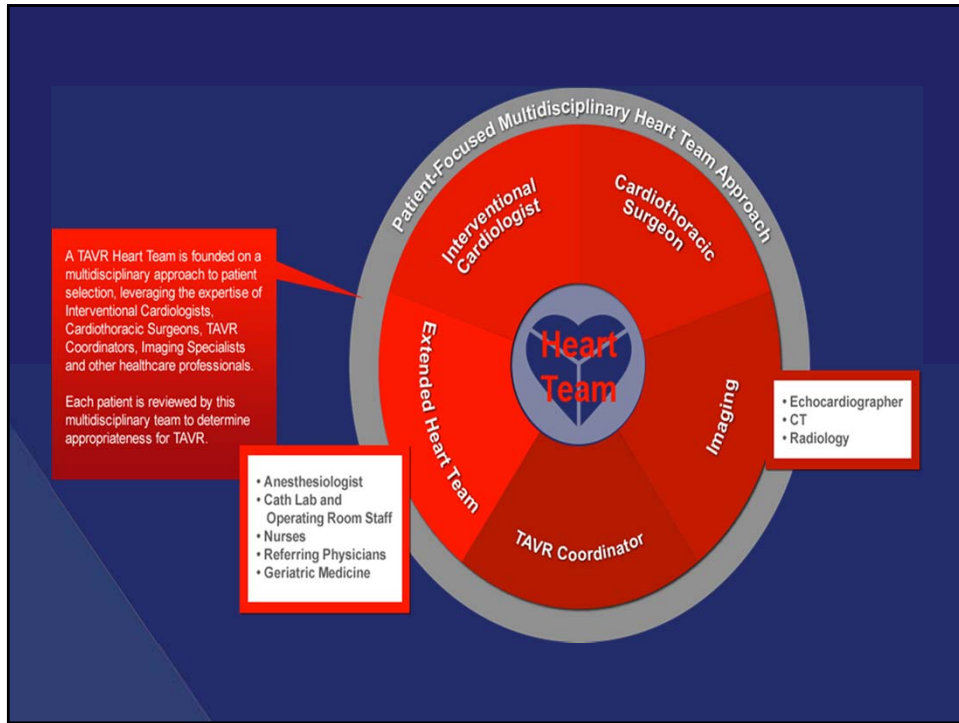
Disclosures: None

## A Revolutionary Field

- Most exciting and fastest growing field in cardiovascular medicine
- Incredible advancements in technology have allowed previously unthinkable procedures to become the norm
- For many patients with structural heart disease, previously high-risk open-heart surgeries have been replaced by non-surgical minimally invasive procedures with lower risk, less trauma, and faster recovery
- Procedures such as heart valve repairs and replacements can now be performed through catheters
- Originally designed for high-risk populations, structural heart procedures are being performed on lower and lower risk populations

## Transcatheter Aortic Valve Replacement

- TAVR has completely transformed the way we managed patients
- Approved for use in intermediate to high surgical risk or inoperable patients and likely to be utilized in progressively lower-risk patients
- Structural Heart Team involved with all aspects of the decision-making and delivery of this complex technology
- Management of patients is best achieved by a multidisciplinary, collaborative team (cardiologists with expertise in heart valve disease, structural interventional cardiologists, imaging specialists, cardiovascular surgeons, cardiovascular anesthesiologists, and cardiovascular nursing professionals)
- Minimalist approach (conscious sedation, expedited discharge)



## Transcatheter Valve-in-Valve Implantation

- Pulmonic
- Mitral
- Aortic

# MitraClip

- Percutaneous Mitral Valve Edge-to-Edge Repair
- Novel method of treatment that is targeted for patients who are not good candidates for surgical therapy for mitral regurgitation



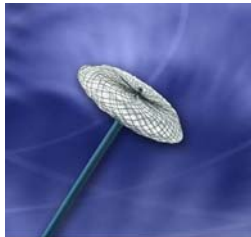
## Cryptogenic Stroke and Patent Foramen Ovale (PFO)

- New data from the CLOSE, REDUCE and RESPECT trials demonstrated a lower rate of recurrent ischemic stroke after patent foramen ovale closure compared with antiplatelet therapy alone in patients with a patent foramen ovale and recent cryptogenic stroke



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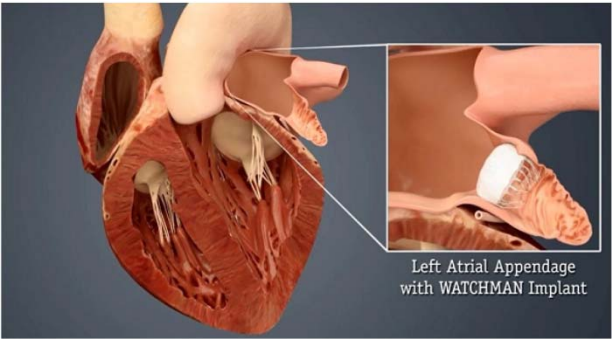
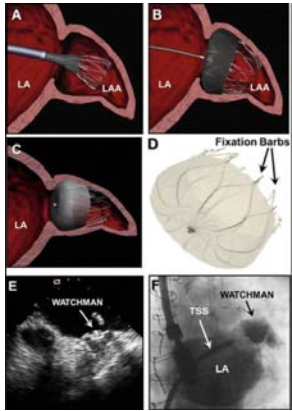
## Atrial Septal Defect (ASD)



# Ventricular Septal Defect (VSD)

Video

# Left Atrial Appendage Closure (WATCHMAN)



## Percutaneous Left Ventricular Assist Device

- Impella Heart Pump
- Protected Complex Percutaneous Coronary Interventions
- Chronic Total Occlusions



## Hypertrophic Obstructive Cardiomyopathy

Video

# Thank You

eruizrodz@gmail.com  
(216) 744-5430  
Heather Hall & Kelli Fritcher  
(501) 940-8017  
Erika Jaco