

Cardiac Rhythm Center

Cardiac Rhythm Center Lab



Cardiac Rhythm Center

JMH offers state-of-the-art radiation equipment

- State of the art Xray systems (reduced radiation)
- 3D mapping systems (CARTO and Velocity)
- RF Ablation generators
- Cryo Ablation
- Intracardiac ultrasound

Dedicated EP staff

- 6 electrophysiologists

22 different implanting cardiologists

- On contract with the 4 major device companies, offering the cardiologist more flexibility

Cardiac Rhythm Center

Capable of implanting any type of device

- Pacemaker Implants
- ICD (internal cardio defibrillator) Implants
- Bi Ventricular Pacemaker Implants
- Bi Ventricular ICD Implants

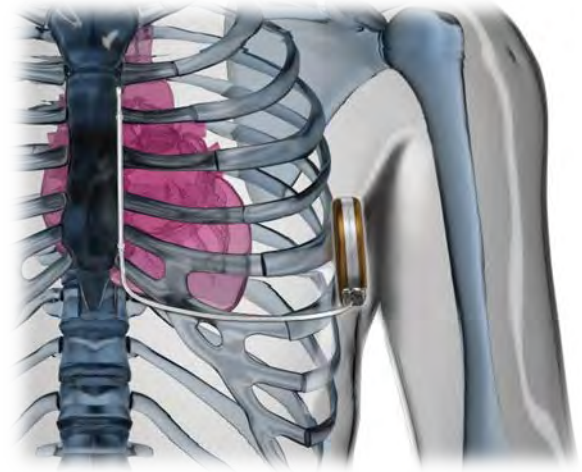
Cardiac Rhythm Center

Plus, JMH specializes in complex cases offering unique procedures

- Subcutaneous ICD Implants
- Cardiac Laser Lead Extraction
- Cardiac Ablations for any arrhythmia
 - Rhythms at one time were only ablated at teaching institutions are now being done successfully at JMH
 - Dedicated core of specialty staff with EP training
 - Minimized need for industry assistance = easier scheduling

Subcutaneous Defibrillator (S-ICD)

- Completely subcutaneous ICD system for ventricular tachyarrhythmias
- Does not require leads in the heart, leaving the vasculature untouched
- Placed strictly by anatomical landmarks, removing the need for fluoroscopy at implant
- Sophisticated algorithms provide performance equal to transvenous ICD's



Lead Extraction Program

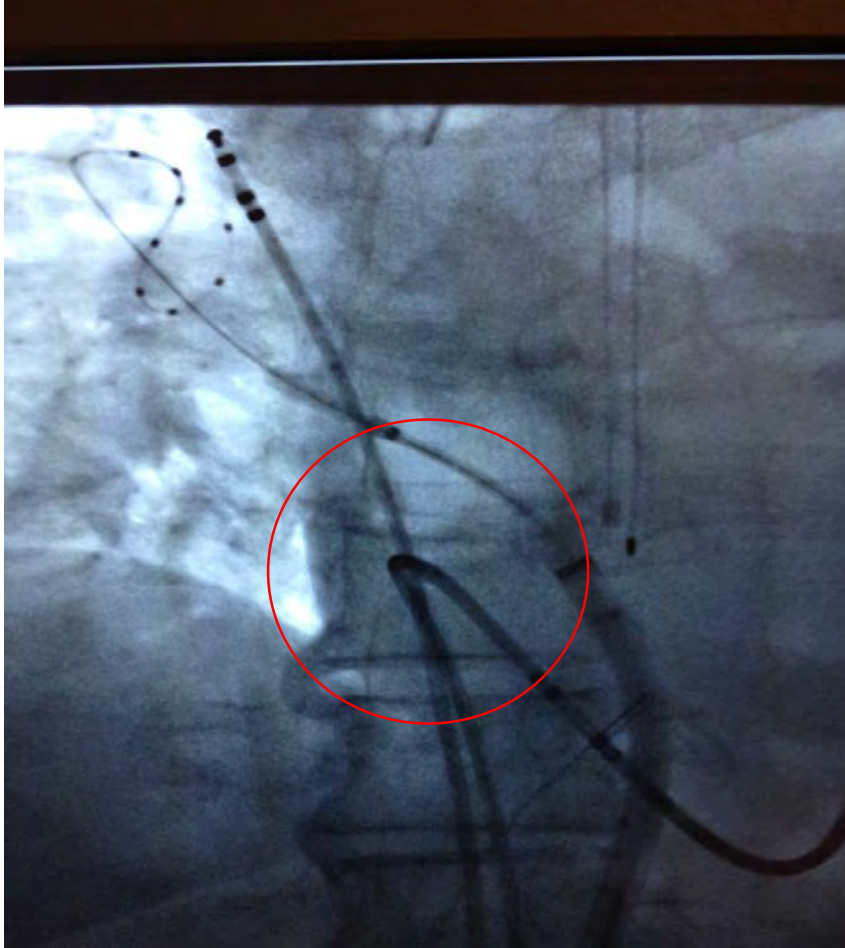
- Lead removal is recommended if pacemaker or implantable cardioverter defibrillator (ICD) systems become infected, lead fracture, insulation break or recall.
- Laser lead extraction uses laser energy (ultraviolet light) delivered through a sheath to free leads from scar tissue
- JMH is the only hospital in the Bay Area where each procedure is performed by an EP/surgeon team for maximum patient safety

Cryo Ablation for AF

- Cryo ablation prevents unwanted electrical currents from traveling from the pulmonary veins (PV) to the atria
- Arctic Front catheter delivers liquid refrigerant via an inflatable balloon to freeze heart tissue at the opening of the PV
- Tissue is scarred and may no longer spread the electrical currents that cause A-Fib
- Procedure times average 2 hours
- Success rates are improved



Cryo Balloon in RSPV



Radio Frequency Ablation

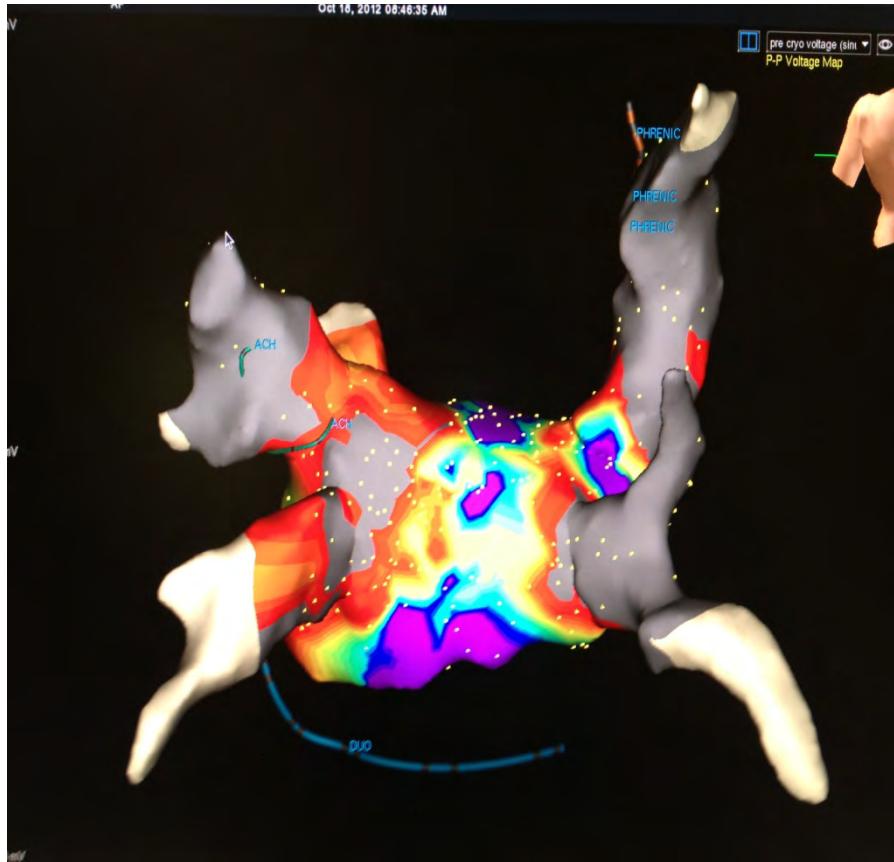


Radio Frequency (RF) ablation.
Using heat to prevent cardiac cells from activating.

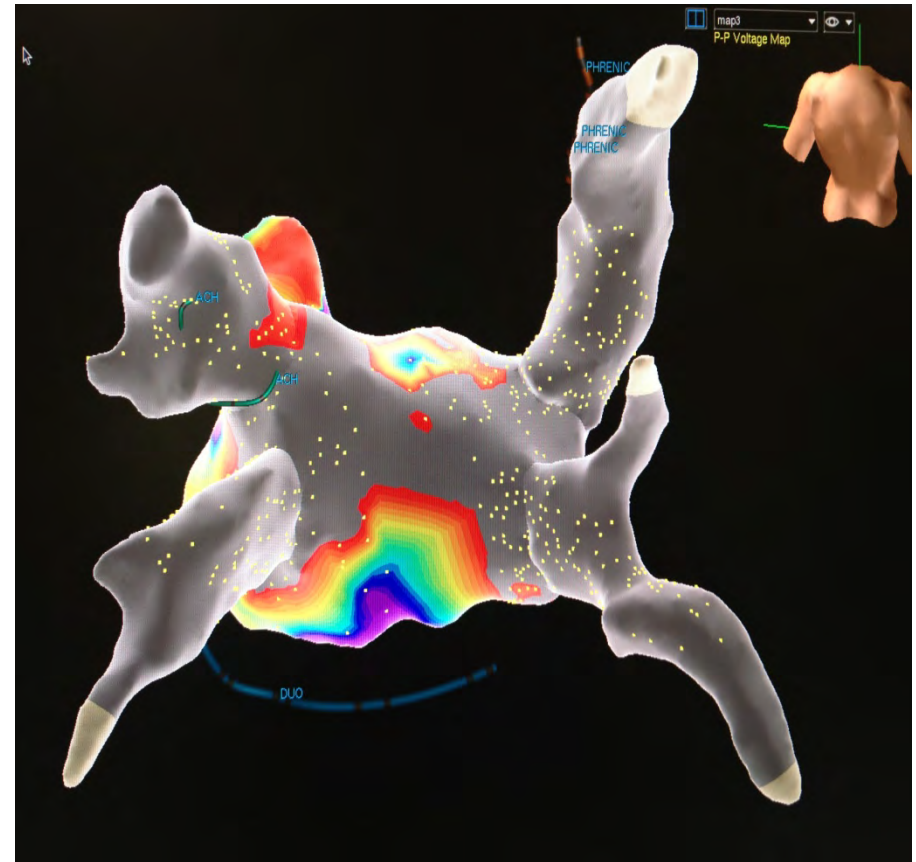
- Irrigated ablation catheters allow for deep cardiac tissue ablation without causing thrombus at the tip of the catheter that could lead to stroke or pulmonary embolism

Cyro Ablation in the Left Atrium

Before



After



Cardiovascular Institute



