

# CARDIAC ELECTROPHYSIOLOGY



The Heart Rhythm Institute at Arkansas Heart Hospital combines our physician's cardiac expertise with state-of-the-art technology to assess, treat and prevent a variety of heart rhythm disorders. Our electrophysiologists measure electrical activity in the heart, evaluating those electrical impulses that keep the heart beating. They also determine the cause of the issue and how to safely get the heart back into normal rhythm.

## COMPLEX ABLATIONS

Cardiac arrhythmias are not an uncommon condition that can affect patient morbidity and mortality. A complex electrophysiology ablation is a minimally invasive catheter-based procedure that targets a broad range of arrhythmias. This approach involves the study of a patient's cardiac electrical system, followed by induction of arrhythmias, and 3D electro-anatomic mapping prior to ablation.

- Pulmonary Vein Isolation or Atrial Fibrillation ablation
- Typical and atypical atrial flutter
- Supraventricular tachycardia
- Ischemic and non-ischemic ventricular tachycardia
- PVCs (premature ventricular complexes) and PACs (premature atrial complexes)
- AV node ablation

## EP STUDY

An electrophysiology study is a minimally invasive procedure performed for the purpose of assessing the electrical activity and conduction pathways of the heart. During an EP Study, sinus rhythm as well as supraventricular and ventricular arrhythmias of baseline cardiac intervals is recorded. This is done for patients with unexplained syncope or recurrent arrhythmias.

## DEVICES

Implanting devices for various conditions (i.e. bradycardia, VT, chronotropic incompetence, cardiomyopathy).

- Implantable/Injectable loop recorder
- Permanent pacemaker
- ICD
- BiV ICD or CRT-D

## DIAGNOSTIC CARDIAC TEST READING

- Tilt Table testing
- Echocardiogram
- Nuclear stress testing
- Treadmill testing



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