



Carolinas HealthCare System  
Sanger Heart & Vascular Institute

# ADVANCED HEART RHYTHM PROGRAM

At Sanger Heart & Vascular Institute, our cardiac electrophysiology team uses the most advanced care techniques and medical devices to treat a wide array of arrhythmias and heart rhythm conditions, all while providing patients with personalized, comprehensive care – close to home. Our specialists are an extension of your care team, offering evidence-based approaches and innovative treatments – and partnering with you every step of the way.



We know working with referring physicians is the key component to care. We manage the patient together and develop a personalized care plan that allows the patient to be seamlessly transitioned back to you.

**Brian D. Powell, MD**

Medical Director, Cardiac Electrophysiology

## What We Treat

- Arrhythmia
- Atrial fibrillation (at our dedicated Center for Atrial Fibrillation)
- Atrial flutter
- Bradyarrhythmia
- Stroke (prevention through medications and Left Atrial Appendage Occlusion)
- Supraventricular tachycardia
- Syncope
- Ventricular tachycardia/fibrillation
- Wolff-Parkinson White syndrome

## Forward-Thinking Treatment

Our dedicated care team creates tailored treatment plans that typically include one or more of these therapies:

- Cardiac resynchronization therapy
- Catheter-based or surgical ablation
- Complex lead and device extraction
- Electrical cardioversion
- Epicardial ablation
- Implantable cardioverter defibrillator
- Leadless pacemaker
- Left atrial appendage occlusion
- Tailored anticoagulation
- Subcutaneous implantable cardioverter defibrillator

To refer your patient or consult with a specialist, contact one of the following Sanger Heart & Vascular Institute locations.

**Charlotte | 704-373-0212 · Concord | 704-403-6100 · Pineville | 704-667-3840**

## Putting Patients First

We tailor care and work collaboratively with referring physicians and other specialists to provide seamless care. We empower patients through education about their condition and access to support groups, lifestyle tips and additional supportive care.

## Research

Our heart rhythm team has helped pioneer research that is shaping standards of care and treatment protocols. In fact, we are one of just eight centers nationally participating in a first-in-human lead extraction safety trial, "Bridge Occlusion Balloon Trial in Humans," to help improve patient outcomes.

## Device Management Clinic

As one of the largest device management clinics in the U.S., we follow nearly 11,000 patients and track their progress.

We offer:

- Convenience
  - 5 hospital implant locations
  - 12 device clinic locations across the Carolinas
- Remote monitoring
- Comprehensive device care across all device types
- High remote monitoring adherence rates
- Transitions in care after implantation

# 833

**ICD procedures**

April 2015–March 2016

ICD Registry™, Aug. 2016

# 0%

**In-lab mortality for lead extraction**

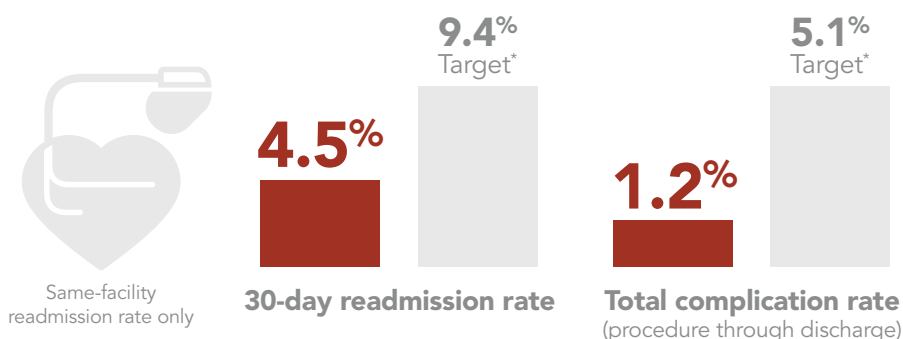
2013–2016

Internal data, Nov. 2016



**ICD Registry™**  
4 stars out of 4

## Atrial Fibrillation Ablation Outcomes



Internal data, Nov. 2016

\*Shah et al, Jan. 2012

## Device Management encounters

	In-person	Remote monitoring	
2013	20,268	11,202	31,470
2014	19,653	12,546	32,199
2015	22,259	15,792	38,051
2016	20,138	18,505	38,643

For all cardiovascular electronic implantable devices (CEIDs): pacemakers, implantable cardioverter-defibrillators (ICDs), implantable/insertable loop recorders (ILRs) and cardiac resynchronization therapy devices (CRTs).

Internal data, Nov. 2016

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