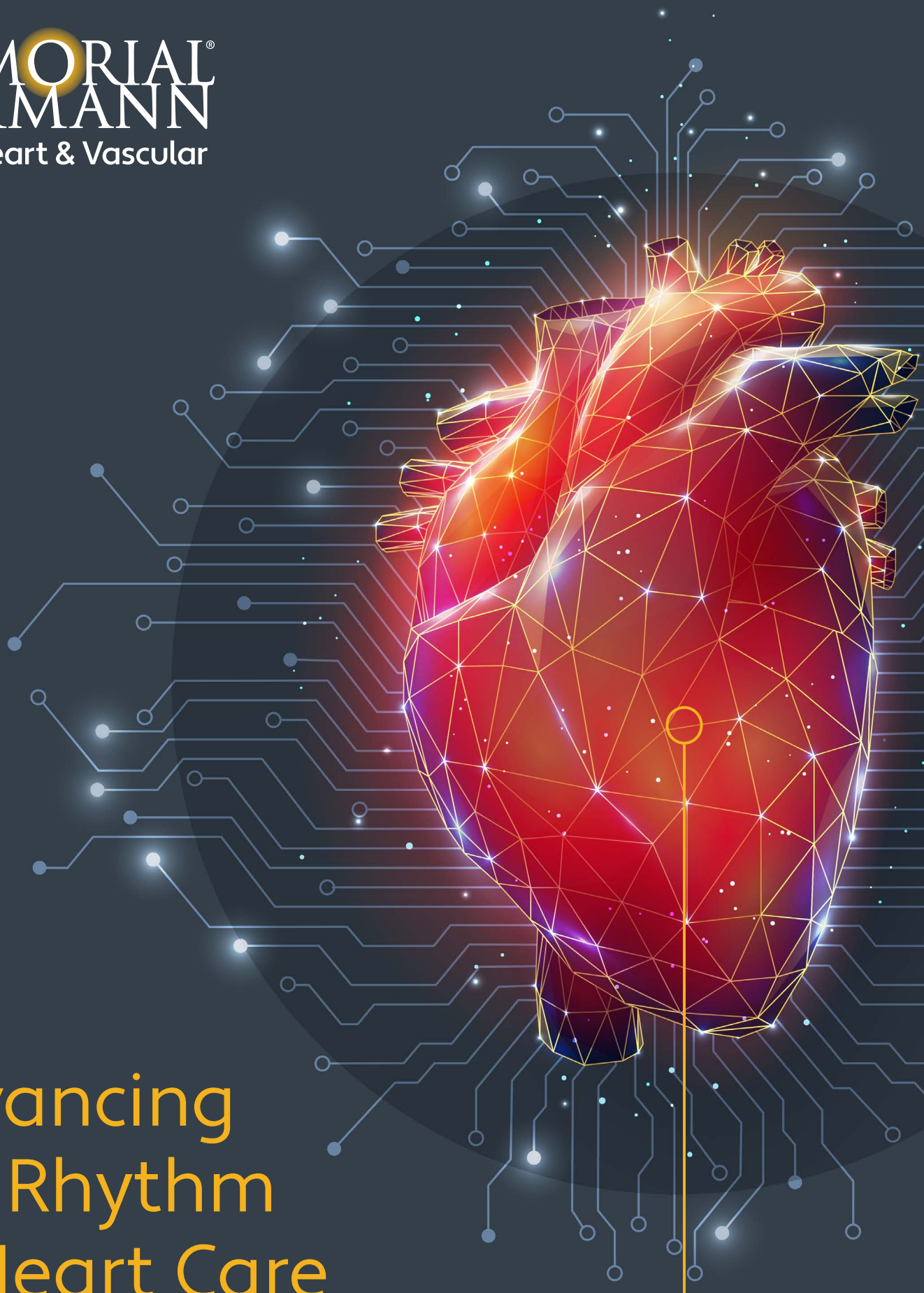


MEMORIAL[®]
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Heart & Vascular



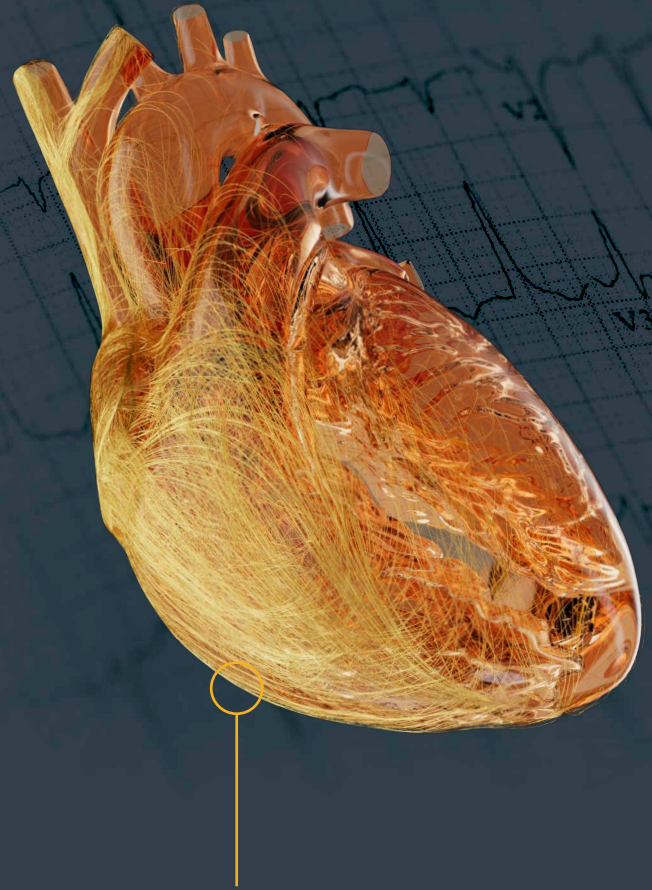
Advancing
the Rhythm
of Heart Care

At Memorial Hermann Heart & Vascular, our electrophysiology (EP) program combines high-procedural volume, advanced technologies and close multidisciplinary collaboration to manage complex arrhythmia patients referred from across the nation.

For physicians managing patients with advanced rhythm disorders, having the right expertise—at the right moment—can save lives. Across Memorial Hermann, EP services are supported by 14 dedicated EP labs (including 4 hybrid EP labs), available 7 days a week. Weekend access extends beyond emergent cases to include nonemergent ablation and device therapies. This capability is complemented by state-of-the-art imaging, cardiac anesthesia, cardiothoracic surgery and heart failure specialists—enabling our team to step in quickly when patients need timely intervention.

On the research front, Memorial Hermann Heart & Vascular, together with our academic partner, UTHealth Houston, is a hub for clinical innovation with 10 EP trials currently underway. We are a key site for pivotal national studies focusing on stroke prevention in patients with atrial fibrillation, including the CONFORM Pivotal Trial, which evaluates new left atrial appendage closure devices. This leadership in research provides patients with access to emerging therapies and allows us to rapidly translate findings into practice.

Our program is built to support cutting-edge care across the full spectrum of cardiac rhythm disorders, from straightforward cases to the most challenging ablations, extractions and interventions. For referring physicians, that means you can expect a reliable partner—giving you confidence that patients will receive care within a fully integrated cardiovascular system.



Memorial Hermann EP At a Glance

Access & Scale

- EP services available 7 days a week for both emergent and routine therapies
- More than 15,000 EP procedures performed annually across the Memorial Hermann system
- One of the highest-volume lead extraction and LAAO centers in the nation

Advanced Therapies and Capabilities

- Full spectrum of advanced ablation capabilities, including pulsed field ablation (PFA), robotic Convergent and complex VT ablation
- State-of-the-art electroanatomic and substrate mapping to guide treatment in scar-related and unstable arrhythmias
- Key clinical trial site providing patients with access to pivotal national EP studies

Integrated, Multidisciplinary Expertise

- Dedicated hybrid EP labs for seamless collaboration between EP and cardiac surgery
- Fully integrated care for complex cases involving structural heart, heart failure and post-transplant patients

Pulsed Field Ablation: Expanding Options for Atrial Fibrillation Care

Leading the way in advanced cardiac care, Memorial Hermann-Texas Medical Center was the first in Texas—and among the first 12 centers nationally—to perform the newest pulsed field ablation (PFA) therapy option. This achievement reflects Memorial Hermann Heart & Vascular's system-wide commitment to pioneering PFA's use. Our program features all four FDA-approved PFA systems, making us one of the few centers in Texas equipped with the full range of commercially available platforms and giving our care teams the flexibility to select the ideal therapy for each patient.

Because PFA selectively targets myocardial tissue while minimizing injury to surrounding structures, it has become an important option for patients with atypical anatomy or prior ablations. PFA's more rapid lesion delivery with lower risk of injury has translated into procedures that are often shorter, faster and safer.

For referring physicians, the availability of multiple PFA systems means our UTHHealth Houston Heart & Vascular affiliated physicians have the unique ability to match the most appropriate technology with each individual case. Treatment strategy, including conscious sedation or general anesthesia, can be tailored to a patient's unique anatomy, arrhythmia substrate, prior therapies and individual needs.

This comprehensive approach positions our center at the forefront of next-generation atrial fibrillation ablation.

Ventricular Tachycardia Ablation and Advanced Substrate Mapping

Our program provides comprehensive care for patients with ventricular arrhythmias, integrating CT-based scar characterization (including ADAS software) with high-density electroanatomic mapping to optimize substrate identification and procedural planning.

The Memorial Hermann Heart & Vascular team has extensive experience performing high-risk ventricular tachycardia (VT) ablation with mechanical circulatory support, including Impella-supported procedures to maintain hemodynamic stability in patients with advanced cardiomyopathy. In addition, our team routinely performs VT ablation in the operating room concomitant with cardiac surgery, enabling combined surgical-catheter approaches in select patients.

With expertise in VT ablation in patients with left ventricular assist devices (LVADs), our affiliated physicians understand the unique anatomic and hemodynamic challenges of this population. For select refractory cases, we offer noninvasive cardiac radiofrequency ablation (RFA), bipolar ablation and PFA.

The Convergent Procedure for Persistent Atrial Fibrillation

For patients with persistent atrial fibrillation who may have limited treatment options, Memorial Hermann Heart & Vascular offers the Convergent procedure—a hybrid approach that brings together cardiac surgery and catheter-based EP. This approach allows targeted ablation of both the inside and outside of the heart, addressing arrhythmogenic tissue that may not be reachable with endocardial ablation alone.

Memorial Hermann was one of the first centers in the world to perform the Convergent procedure using a robotic-surgery platform. Close collaboration between EP and robotic cardiac surgery teams enables durable

posterior wall isolation and comprehensive arrhythmia management, distinguishing our program through advanced robotic surgical integration. What further differentiates Memorial Hermann is the use of precise mapping technology in the operating room before and after ablation, enabling real-time evaluation of lesion effectiveness and immediate optimization. This added layer of precision helps support improved outcomes for patients with advanced disease.

Lead Extraction at Scale

Challenging extractions—including infected systems and high-risk cases—require more than technical expertise. They require an environment built for rapid escalation, multidisciplinary support and patient safety.

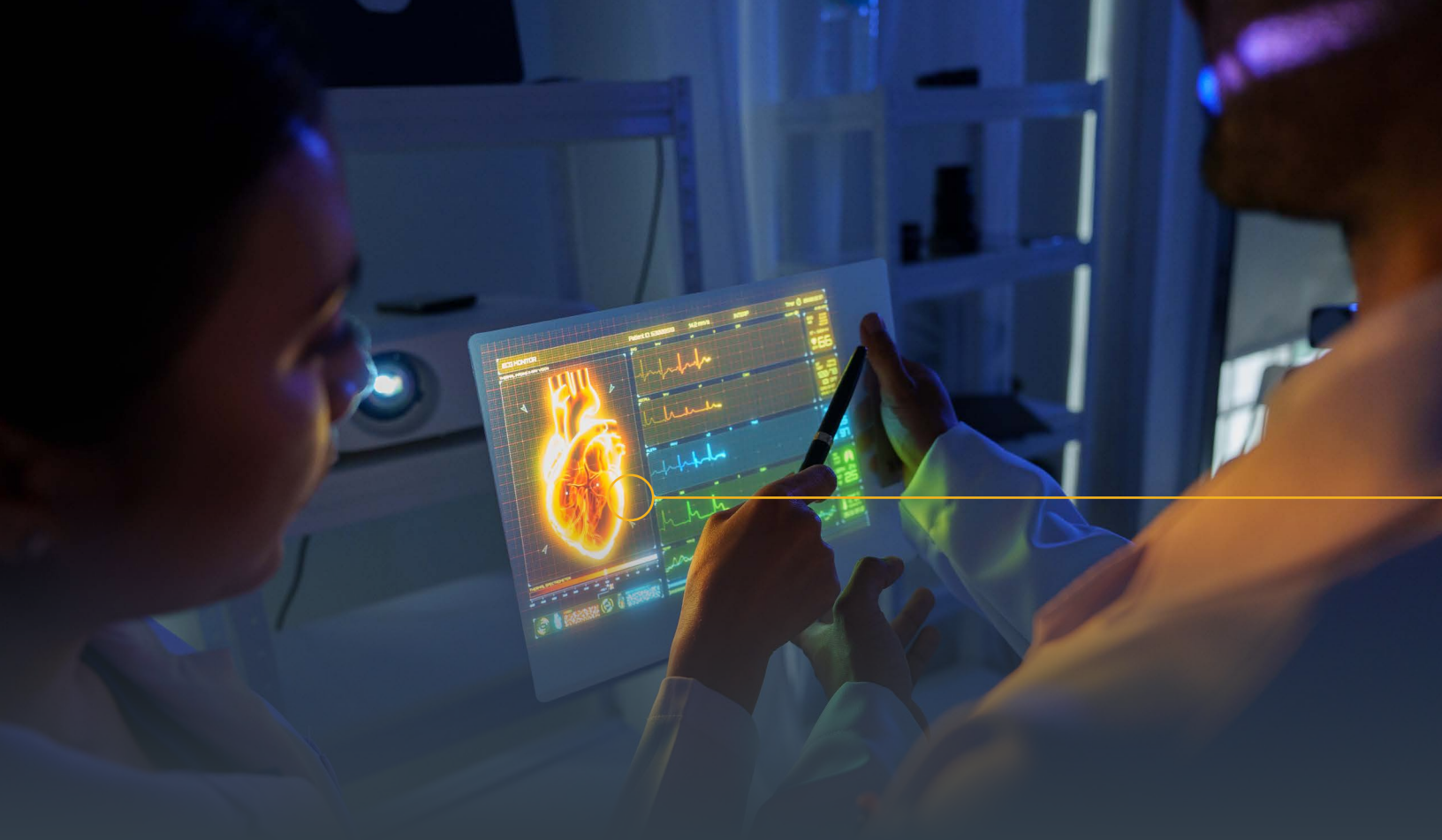
Memorial Hermann Heart & Vascular is one of the highest-volume lead extraction centers in the United States, providing us with the experience to manage the full range of extraction scenarios, including long-dwell leads, ICD systems, device-related infections and venous occlusion. On average, our UTHHealth Houston Heart & Vascular affiliated physicians perform more than 200 lead extractions each year, emphasizing safety and advanced extraction techniques, with hybrid operating rooms to allow for immediate surgical conversion if needed.

In coordination with our academic partner, UTHHealth Houston, we also serve as a dedicated training center for transvenous lead extraction, where experienced electrophysiologists worldwide train with our team. This educational role reflects the depth of expertise, procedural volume and technical leadership of our program.



“ No one else in Houston has access to the range of technology that we have. As a result, procedures are getting shorter, faster and safer. ”

Ramesh Hariharan, MD
Chief, Cardiac Electrophysiology Section,
UTHHealth Houston and Medical Director,
Cardiac Electrophysiology at Memorial
Hermann-Texas Medical Center



Heart Failure and EP: Integrated by Design

Patients with later-stage heart failure often present with arrhythmias that require coordinated management across specialties. At Memorial Hermann Heart & Vascular, EP physicians work closely with heart failure and transplant teams to manage ventricular arrhythmias, device therapy and rhythm control in some of the highest-acuity patients.

As a referral center for cardiogenic shock across the greater Houston area, we perform ablations in patients supported by mechanical circulatory devices as well as in those who have undergone cardiac or pulmonary transplant.

Our multidisciplinary approach supports patients throughout the continuum of care—from medical management to mechanical circulatory support and transplantation—while ensuring arrhythmia care is fully aligned with the broader heart failure strategy.

Structural Heart and EP Collaboration

As structural heart therapies continue to evolve, partnership between EP and structural heart teams has become increasingly important.

Memorial Hermann Heart & Vascular offers the latest left atrial appendage occlusion (LAAO) devices, providing stroke-prevention options for patients with non-valvular atrial fibrillation who are not candidates for long-term anticoagulation. Across six Memorial Hermann hospitals, affiliated physicians perform nearly 800 LAAO procedures annually, making our program one of the busiest and most experienced in the nation.

EP and structural heart physicians discuss patient selection, procedural planning and follow-up, helping to allow for continuity of care while expanding access to stroke-prevention therapies.

To refer a patient to our EP program, visit [memorialhermann.org/heart-refer](https://www.memorialhermann.org/heart-refer). Upon completion of the short form, a member of our team will reach out.

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