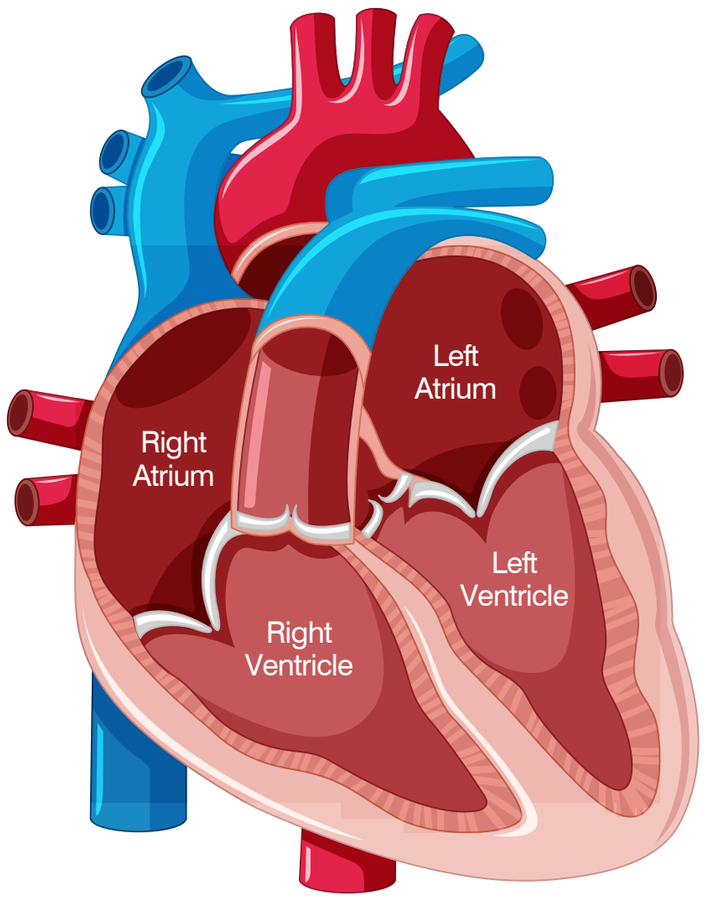
State of the *Heart* Robotic Technology

Ventricular Tachycardia



What is Ventricular Tachycardia?

A normal heart rate for aduilts ranges from between 60 to 80 beats per minute. Ventricular Tachycardia (VT) occurs when the heart beats faster than normal, between 120-300 beats per minute. These irregularly fast heartbeats are caused by electrical disturbances in the lower chambers of the heart, called the ventricles. The racing heart rate prevents the ventricles from filling with enough blood between beats to supply the body's needs.[1]

Symptoms of VT may include any of the following:

- Dizziness
- Palpitations
- Shortness of breath
- Nausea
- Lightheadedness
- Falling Unconscious
- Cardiac arrest, in extreme cases [2]

What is Robotic Catheter Ablation?

Catheter ablation is a minimally invasive procedure that uses radiofrequency energy to correct areas of heart tissue that are causing rapid and irregular heartbeats and helps restore the heart's regular rhythm.[3]

Robotic ablation uses magnetic fields and robotic precision to navigate a magnetic catheter inside the heart, directly from the tip. The technology consists of two robotically controlled magnets next to the operating table. During the procedure the physician precisely directs and steers the ablation catheter safely through the delicate anatomy of the heart using intuitive computer software.

Why Robotics for Catheter Ablation?

Treatment Precision

Robotics allows the ablation catheter to reach the exact points where it is needed, wherever that may be. Because a magnetic catheter is controlled from the tip, it is very precise.

Gentle Touch

Your heart is delicate. Robotically controlled ablation catheters are soft and gentle like al dente spaghetti and more flexible than traditional, manually-guided catheters.

Reduced Radiation

With robotics, physicians have confidence of the safety of a gentle catheter. This leads to lower need for x-ray during the procedure. That means less radiation exposure for patients.[4]

Visit **www.TreatHeartsBetter.com** to learn more

1. www.cardiosmart.org/topics/ventricular-tachycardia
2. heart.org/en/health-topics/arrhythmia/about-arrhythmia/tachycardia--fast-heart-rate
3. heart.org/en/health-topics/arrhythmia/prevention--treatment-of-arrhythmia/ablation-for-arrhythmias
4. www.roboticep.com/clinical-data