

DON'T MISS A

# BEAT

## Innovative Treatments in Heart and Vascular Care



### MUSCLE IT

Each minute, four chambers and four valves beat 75 times and pump five quarts of blood throughout your body. **Your heart is one impressive muscle!**

Our cardiologists and heart specialists are constantly exploring new frontiers of minimally-invasive care and treatment options to reduce discomfort and recovery time.

### SHIELD IT

For patients with atrial fibrillation (AFib) who need an alternative to blood thinners, the quarter-sized **WATCHMAN™** implant acts like a shield to help prevent blood clots and reduce the risk of stroke.



### OPEN IT

Patients with severe aortic stenosis now have a less-invasive alternative to open heart surgery. The **Transcatheter Aortic Valve Replacement (TAVR)** procedure delivers a replacement valve to the valve site through a catheter.

### MONITOR IT

For patients with congestive heart failure (CHF), **The CardioMEMS™ Heart Failure System** allows for constant monitoring of a patient as well as medication adjustments, if needed. The small, implanted sensor continuously measures pulmonary pressure and transmits data to your provider.



### KICK IT

The **Micra® Transcatheter Pacing System** is the world's smallest wireless pacemaker and offers patients a fully functional pacemaker without scars or a lump under the skin. The device is implanted into the heart by a long, narrow tube inserted through a tiny incision in the leg.

### CLIP IT

For patients with a leaky mitral valve who are suffering symptoms of valve-related congestive heart failure but are not suitable for surgery or responding to medications, the **MitraClip®** may help. The dime-sized device is threaded to the heart through a catheter and then guided to the mitral valve and used to clip two valve leaflets together, repairing the leak.



### PICTURE IT

A non-invasive, no-radiation imaging technology, cardiovascular magnetic resonance imaging, or **cardiac MRI**, uses a powerful magnetic field, radio waves and a computer to provide detailed pictures of the heart and major blood vessels.

### REOPEN IT

For carotid artery disease patients that are too high risk for surgery, the **TransCarotid Artery Revascularization (TCAR)** procedure may be the solution. Blood flow is temporarily reversed during this procedure so that any small bits of plaque that may break off are diverted away from the brain, preventing a stroke from happening. A stent is then placed inside the artery to stabilize the plaque, minimizing the risk of a future stroke.



### COVER IT

Patients with an aneurysm in the aorta that is in the chest (thoracic) area may benefit from a minimally-invasive procedure, **Thoracic Endovascular Aortic Repair (TEVAR)**. TEVAR requires a small incision where a stent graft is inserted and used to exclude the aneurysm from the circulation, providing a stable place for blood to flow and preventing the aneurysm from bursting.



## New England Heart & Vascular Institute

Where heart meets innovation.

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