

Clinical Trial May Reduce Stroke in Patients With Irregular Heartbeats

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(PhysOrg.com) -- A new study at UC Health University Hospital may help reduce stroke in patients with atrial fibrillation, a condition that causes irregular and dangerous heart rhythms.

Mehran Attari, MD, UC Health electrophysiologist and lead investigator on the study, along with colleagues at University Hospital will be looking at the clinical benefits of the combined use of defibrillators or cardiac resynchronization devices (CRTs) and the daily use of warfarin, a blood thinner, to see if outcomes improve for patients at risk for [stroke](#).

CRT involves the use of a specialized pacemaker to improve the electrical activation of the right and left ventricles in patients with heart failure.

"[Atrial fibrillation](#) is the most common [arrhythmia](#) requiring medical treatment, with a 25 percent lifetime risk of development in the general population; heart failure affects roughly 5 million Americans," he says. "These disorders are closely linked and contribute to an increased risk of embolism and stroke. In fact, one-sixth of all strokes are attributed to atrial fibrillation.

"In this study, we hope to detect atrial arrhythmias earlier using these new technologies and the predefined anticoagulation plan, reducing the rate of stroke, embolism, bleeding and death."

The study—called IMPACT—is a multicenter, single-blinded and randomized clinical trial. Roughly 2,700 patients from up to 100 clinical sites worldwide will be placed into two groups and implanted with one of two FDA-approved monitoring devices after being deemed eligible to participate.

"Patients in both groups will be observed using the home monitoring components of each of the devices; however, patients and researchers in group two will not have access to this data," Attari

says. "These patients will receive physician directed [anticoagulation therapy](#) based on conventional criteria while patients in group one will receive [warfarin](#) therapy, if needed, based on the device readouts."

All study participants will be followed by physicians in the clinic every three to six months.

Stroke symptoms questionnaires will also be administered every three months to assess risk. This will take place either in the office visits or over the telephone.

Attari says researchers will use the CHADS2 model to estimate stroke risk in patients with atrial fibrillation.

"This model takes into account the patient's age as well as other medical conditions, including congestive [heart failure](#), hypertension, diabetes and prior stroke," Attari says. "We hope that this study will shed light on a new way to prevent stroke from occurring, improving the way physicians practice medicine and improving the quality of life for our patients."

Provided by University of Cincinnati

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