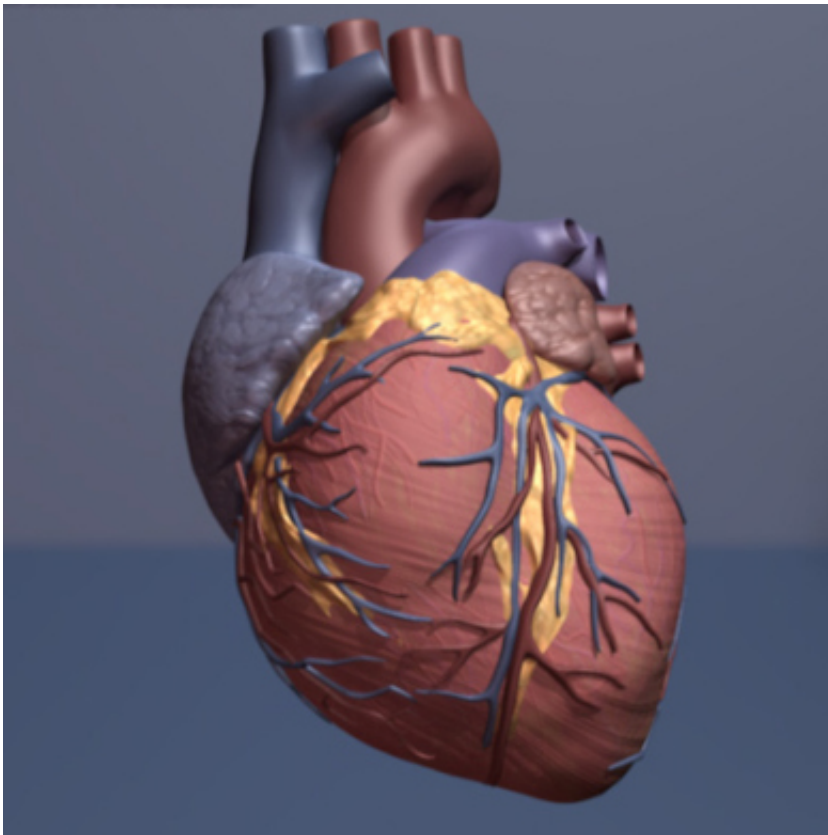


New heart failure therapy could prevent substantial number of deaths, study finds

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Human heart. Credit: copyright American Heart Association

A UCLA-led study estimates that almost 28,500 deaths could be prevented each year in the U.S. through use of a new FDA-approved class of cardiovascular medication that helps reduce mortality in patients diagnosed with heart failure and reduced ejection fraction, the

percentage of blood pumped from the heart with each contraction.

Previous studies have demonstrated that 'angiotensin receptor neprilysin inhibitor' (ARNI) [therapy](#) using a new class of medication (generic name: sacubitril and valsartan) reduces mortality in patients with [heart failure](#) and reduced [ejection fraction](#). The therapy works by enhancing the body's protective hormonal systems while simultaneously inhibiting the overactive hormones that harm the heart.

In this study, researchers wanted to quantify the number of deaths that could be prevented or postponed with ARNI therapy. Researchers conducted the study by analyzing published data of patients who were eligible for the therapy, estimates of the number of people in the U.S. diagnosed with heart failure and reduced ejection fraction, and the numbers needed to treat with the medication to avert death.

More than 2.7 million patients in the United States have been diagnosed with heart failure and reduced ejection fraction. Of these patients, 84 percent (almost 2.3 million) are potential candidates for ARNI therapy. This study showed that, if ARNI therapy were comprehensively applied to eligible patients, it could potentially prevent 28,484 deaths each year.

"These findings support the timely implementation of ARNI therapy into routine clinical practice because this will have substantial impact on population health for [patients](#) with heart failure," said the study's lead author, Dr. Gregg Fonarow, the Eliot Corday Chair in Cardiovascular Medicine and Science, director of the Ahmanson-UCLA Cardiomyopathy Center and co-chief of the UCLA Division of Cardiology.

The study is published in *JAMA Cardiology* on June 22, 2016.

Provided by University of California, Los Angeles

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