

Implantable heart devices result in similar survival benefits among ethnic, racial group

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Racial and ethnic minorities who receive implantable devices to treat heart failure derive the same substantial survival benefit from these therapies as white patients, new UCLA-led research shows.

While the American College of Cardiology and American Heart Association jointly recommend the use of <u>implantable cardioverter</u> <u>defibrillators</u> (ICDs) and <u>cardiac resynchronization therapy</u> (CRT) devices for all eligible <u>patients</u>, minorities have not been well represented in clinical trials of the devices, and previous studies had shown that African American and Hispanic patients are less likely to receive these recommended therapies.

The current study—among the largest to compare the survival benefits of these devices by race and ethnicity—involved more than 15,000 patients at 167 cardiology and multi-specialty practices across the U.S. The research was coordinated by 10 academic medical centers, including UCLA.

The findings are published in the August 26 issue of the *Journal of the American College of Cardiology*.

Drawing on data from the Registry to Improve the Use of Evidence-Based Heart Failure Therapies in the Outpatient Setting (IMPROVE HF), the researchers monitored 15,177 heart failure patients over two years to measure the benefits of implantable device therapy on survival in community practice settings.



They found that ICD device therapy reduced the likelihood of death during the two-year period by 36 percent, with no significant differences by race or ethnicity. They also found a 45 percent reduction in mortality with CRT therapy, again without any significant differences in device benefit by race or ethnicity.

"This is among the largest studies to address the question of race- and ethnicity-specific benefits with ICD or CRT therapies in real-world practice," said senior author Dr. Gregg C. Fonarow, who holds the Eliot Corday Chair in Cardiovascular Medicine and Science and directs the Ahmanson–UCLA Cardiomyopathy Center at the David Geffen School of Medicine at UCLA. "Our results are a reminder to physicians and patients that this proven life-extending therapy should be offered to all eligible heart failure patients without regard for race or ethnicity."

More than 5 million Americans suffer from heart failure, placing them at high risk of sudden death, as well as progressive heart dysfunction and frequent hospitalizations. The ICD, a small device implanted in the chest or abdomen, has been shown in large <u>clinical trials</u> to prolong survival by preventing life-threatening rhythm problems in heart failure patients. CRT devices, which send small electrical impulses that help the heart's lower chambers beat together in a more synchronized pattern, have been shown to reduce hospitalizations and death. Still, an estimated 40 to 60 percent of heart failure patients eligible for such treatment fail to receive it.

Fonarow and his study colleagues noted that many factors contribute to this underutilization, including patient refusal, lack of physician knowledge and lack of health insurance coverage. Among heart failure patients deemed eligible for the therapy, minorities are less likely to receive it than whites, in part, the authors suggested, because of the small representation of minority patients in the device studies. The current study was aimed at addressing this evidence gap.



"Implantable devices are proven to save the lives of heart failure patients and should be offered to all patients who qualify, without consideration of race or ethnicity, to ensure more equitable benefit from this lifesaving therapy," said Dr. Boback Ziaeian, a UCLA cardiologist and the study's first author.

Provided by University of California, Los Angeles

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