

LVEF improvement for many with primary prevention ICDs

July 30 2015



(HealthDay)—Forty percent of patients with primary prevention implantable cardioverter-defibrillators (ICDs) experience improvement in left ventricular ejection fraction (LVEF), according to a study published in the Aug. 4 issue of the *Journal of the American College of Cardiology*.

Yiyi Zhang, Ph.D., from the Johns Hopkins University Bloomberg School of Public Health in Baltimore, and colleagues conducted a [prospective cohort study](#) involving 538 patients with repeated LVEF assessments after ICD implantation for primary prevention of [sudden cardiac death](#). Participants were followed for a mean of 4.9 years.

The researchers found that LVEF decreased in 13.0 percent of patients, improved in 40.0 percent, and was unchanged in 47.0 percent during

follow-up. For patients with versus without improved LVEF, the hazard ratios were 0.33 and 0.29 for mortality and appropriate shock, respectively. One-quarter of patients showed improvement in LVEF to >35 percent during follow-up, and there was a decrease in, but not elimination of, their risk of appropriate shock.

"Among [primary prevention](#) ICD patients, 40.0 percent had an improved LVEF during follow-up and 25 percent had LVEF improved to >35 percent," the authors write. "Changes in LVEF were inversely associated with all-cause mortality and appropriate shocks for ventricular tachyarrhythmias."

Several authors disclosed financial ties to the medical technology industry.

More information: [Full Text \(subscription or payment may be required\)](#)

[Editorial \(subscription or payment may be required\)](#)

Copyright © 2015 [HealthDay](#). All rights reserved.

Citation: LVEF improvement for many with primary prevention ICDs (2015, July 30) retrieved 26 April 2024 from <https://medicalxpress.com/news/2015-07-lvef-primary-icds.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--