

Blood thinner found to significantly reduce subsequent heart failure risks

24 April 2019



Barry Greenberg, MD, Distinguished Professor of Medicine at UC San Diego School of Medicine and director of the Advanced Heart Failure Treatment Program at the Cardiovascular Institute at UC San Diego Health. Credit: UC San Diego Health

Researchers at University of California San Diego School of Medicine found that using blood thinners in patients with worsening heart failure, coronary artery disease or irregular heart rhythms was associated with a 17 percent reduced risk of thromboembolic events, such as stroke and heart attack.

Results from the COMMANDER Heart Failure trial were published in the April 2019 issue of *JAMA Cardiology*.

Heart failure, sometimes known as <u>congestive</u> <u>heart failure</u>, occurs when your heart muscle doesn't effectively pump blood. Certain conditions that narrow arteries, such as coronary artery disease or <u>high blood pressure</u>, gradually weaken or stiffen the heart, reducing its ability to fill and pump efficiently. Researchers say these conditions elevate patients' risk for subsequent issues.

"We found that 17 percent of patients with heart

failure due to not enough blood being pumped out of the heart, <u>coronary artery disease</u> and normal sinus rhythm (the heart's electrical impulse) experience thromboembolic events. This was more frequent than we had originally thought," said Barry Greenberg, MD, Distinguished Professor of Medicine at UC San Diego School of Medicine and director of the Advanced Heart Failure Treatment Program at the Cardiovascular Institute at UC San Diego Health.

"We initially wanted to know if we could improve outcomes in patients after an episode of worsening heart failure using a low dose of blood thinner. What we found was that, while this strategy didn't accomplish that goal, it was associated with a significant reduction in the risk of clinically important events that are caused by thrombosis—stroke, <u>heart attack</u> and sudden cardiac death."

According to the Centers for Disease Control and Prevention, approximately 610,000 people die of heart disease in the United States annually—that's one in every four deaths nationwide. Heart disease is the leading cause of death for both men and women.

The international, randomized COMMANDER HF study included 5,022 patients after discharge from a hospital or in treatment in an outpatient clinic for worsening <u>heart failure</u>. Patients were given 2.5 milligrams of rivaroxaban (a blood thinner marketed as Xarelto) orally twice daily or a placebo in addition to their standard therapy.

"Although there was some increase in bleeding risk with low-dose rivaroxaban, major bleeding, which was the primary safety endpoint of the study, was not significantly increased," said Greenberg. "This is an important observation because currently there is no mandate in place for physicians to prescribe <u>blood thinners</u> to this patient population."



Researchers say future steps include confirmation of findings in prospective, large clinical trials.

More information: Barry Greenberg et al. Association of Rivaroxaban With Thromboembolic Events in Patients With Heart Failure, Coronary Disease, and Sinus Rhythm, *JAMA Cardiology* (2019). DOI: 10.1001/jamacardio.2019.1049

Provided by University of California - San Diego

APA citation: Blood thinner found to significantly reduce subsequent heart failure risks (2019, April 24) retrieved 22 September 2022 from <u>https://medicalxpress.com/news/2019-04-blood-thinner-significantly-subsequent-heart.html</u>

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