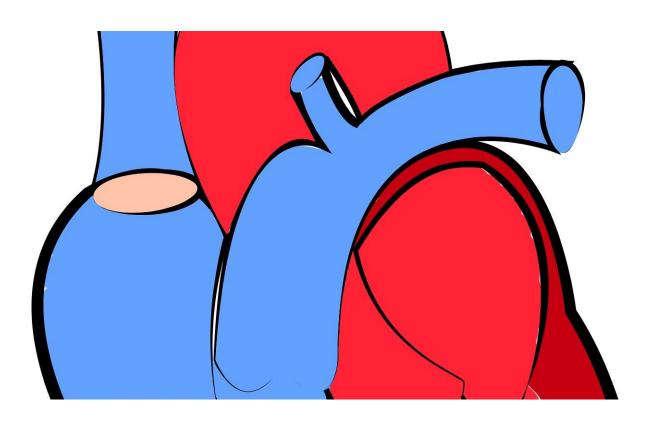


More sensitive blood test diagnoses heart attacks faster

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A new test to assess a whether or not someone is having a heart attack upon arriving in the emergency room was safe and effective, ruling out heart attack in emergency room patients faster than a conventional method, according to new research in the American Heart Association's journal *Circulation*.



The new high-sensitivity blood <u>test</u> for cardiac troponin, given in a <u>hospital emergency room</u>, was also found to be safe and effective. When patients present to emergency rooms with heart attack symptoms, doctors assess them in part by using a cardiac troponin test to measure a protein released into the blood when the heart is damaged.

"We did not miss any heart attacks using this test in this population," said lead author Rebecca Vigen, M.D., M.S.C.S., a cardiologist at the University of Texas Southwestern Medical Center. "The test also allowed us to determine faster that many patients who had symptoms of a heart attack were not having a heart attack than if we had relied on the traditional test."

Recently the United States Food and Drug Administration approved a high-sensitivity troponin test already used in Europe. The researchers developed a procedure for assessing the results of the new test and compared it to existing practice using a conventional troponin test, which takes three hours to complete. Study participants were 536 patients admitted to an <u>emergency room</u> with heart attack symptoms, including chest pains and shortness of breath.

The new procedure successfully "ruled out" 30 percent of patients immediately and an additional 25 percent at one hour. By three hours, the new procedure ruled out <u>heart</u> attack in 83.8 percent of patients compared with 80.4 percent using the conventional test.

"We anticipate that this procedure will allow many patients with chest pain to be given a 'yes' or 'no' diagnosis of whether they are having a <u>heart attack</u> faster," said Vigen, who hopes clinicians from other institutions will learn from these results.

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Provided by American Heart Association

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