

Follow-up cholesterol testing reduces risk of reocurrence for heart attack and stroke patients

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If you have a heart attack or stroke, it's important to get your "bad" cholesterol measured by your doctor on a follow up visit. Researchers have found that one step is significantly associated with a reduced risk of suffering another serious cardiovascular episode.

The new research, conducted by researchers at the Intermountain Medical Center Heart Institute in Salt Lake City, found that <u>patients</u> who don't follow up with their doctor by getting a low-density lipoprotein (LDL) cholesterol test following a heart attack or stroke are significantly more likely to have a reccurrence.

Researchers found a significant and clinically meaningful difference in major adverse outcomes—including death, a heart attack, a stroke, and a vascular bypass or an angioplasty—based on whether or not a patient has a follow-up measurement of their LDL cholesterol.

Researchers say the results of the study suggest LDL cholesterol levels should be regularly measured after an initial heart attack or stroke. LDL is the "bad" cholesterol, and main source that becomes part of the plaque that clogs arteries and makes heart <u>attacks</u> and strokes more likely.

"It's clear that anyone with a previous heart problem caused by clogged arteries should be taking a cholesterol-lowering medication," said Kirk U. Knowlton, MD, lead author of the study and director of



cardiovascular research at the Intermountain Medical Center Heart Institute.

The study of more than 60,000 patients with known heart <u>disease</u>, <u>cerebrovascular disease</u> or peripheral artery disease, including stroke and <u>heart attack patients</u>, showed the major adverse clinical event rate was lower in both patients who took cholesterol-lowering statins and those who didn't if their LDL was measured.

"The large difference is surprising. The risk of dying after three years with no LDL follow-up is 21 percent versus 5.9 percent for patients who have an LDL follow-up," said Dr. Knowlton.

Results of the Intermountain Medical Center Heart Institute study will be presented at the 2017 Scientific Sessions of the American Heart Association, in Anaheim, CA, on Nov. 12.

The Intermountain Medical Center Heart Institute study reviewed Intermountain Healthcare's enterprise data warehouse, one of the nation's largest depositories of clinical data, to identify all adults who came to one of Intermountain's 22 hospitals for the first time with a heart attack or stroke. These included patients with coronary artery disease, cerebrovascular disease, and peripheral arterial disease admitted between January 1, 1999, and December 31, 2013.

Researchers looked at patients who survived and were followed for three years or more, or until their death. Patient demographics, history, prescribed medications, and whether LDL was measured was analyzed. "We looked at a variety of parameters—which represents one real benefit Intermountain offers to medical researchers and providers nationwide," Dr. Knowlton said. "They've been collecting data since the 1990s and it's a phenomenal data set."



The study compared 62,070 patients in the database who met the study criteria. The average age was 66 years old, with 65 percent of patients being male. Of those who met the criteria, 69.3 percent had coronary artery disease, 18.6 percent had cerebrovascular disease, and 12.1 percent had peripheral arterial disease when they came to the hospital with their first <u>heart</u> attack or stroke.

Researchers found the risk of a patient having a secondary event or dying decreased in those who had a follow-up LDL test before a subsequent adverse outcome or before the end of their follow-up.

Dr. Knowlton says the study reinforces how important it is for patients to continually take their cholesterol medications.

"Patients need to know that if they've had a cardiovascular event, continuing to take their medications will not only lower their LDL, but substantially lower their risk of having another event," he noted. "We need to emphasize to doctors how important it is to follow up therapy for patients with measurement of their LDL cholesterol. And patients need to talk to or ask their doctors about the test, especially if they've had a heart attack or stroke."

Provided by Intermountain Medical Center

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