

Patients with non-cardiac chest pain are reassured with brief education

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Patients diagnosed with non-cardiac chest pain are normal results (i.e. no sign of coronary artery reluctant to believe they do not have heart disease. disease) on CT examination of the coronary A new study shows that explaining the test results convinces patients and reduces the likelihood of future chest pain. The research is presented at EACVI—Best of Imaging 2020, a scientific congress control group received usual care, meaning that of the European Society of Cardiology (ESC).

Chest pain is one of the most frequent causes of consults at the emergency department. This study refers to individuals who sought medical help for chest pain and had a computed tomography (CT) examination of the coronary arteries that showed normal arteries. "Previous studies have reported that these patients do not trust their examination results and still think they have heart disease," said study author Ms. Isabel Krohn, a radiographer at Haukeland University Hospital, Bergen, Norway.

Patients with chest pain undergo several different types of tests to determine the cause. In 2018, around 600 outpatients with chest pain had CT scans at Haukeland University Hospital to examine the coronary arteries. These scans showed that approximately 200 of the 600 patients had healthy arteries—meaning no calcium deposits or narrowing Participants were asked to rate on a scale of 0 to of the arterial lumen. Studies in other centres have reported that chest pain has a non-cardiac origin in scan of their coronary arteries had found no heart two-thirds of patients. Typical causes are indigestion or acid reflux, musculoskeletal disorders such as back pain or sore muscles between the ribs, and psychological issues like panic attacks and anxiety.

coronary CT to diagnose their chest pain had previously undergone a coronary CT scan and other heart examinations which found no evidence of coronary disease," said Ms. Krohn. "Given the excellent prognostic value of coronary CT, I thought this information could be beneficial to this patient group."

arteries. The average age was 51 years and 63 (68%) were women. Patients were randomly allocated to the intervention or control group. The around one week after the scans, their general practitioner or other referring doctor told them the result was normal.

The intervention group went through a three-part explanation with the radiographer. In the first part, participants received extended information about the CT examination they just went through—both orally and in a brochure written in understandable terms. This included the different reasons for chest pain, low probability of inaccurate results, and very low risk of a future heart attack when CT scans show healthy arteries. In the second part, participants were shown their own calcium score images to visually strengthen the message in the brochure. Lastly, the radiographer told patients their results were normal.

Both groups were followed-up at one month. 10 the degree to which they believed that the CT disease (0 = no trust in the results; 10 = fully trust the results). Patients in the intervention group were significantly more likely to believe the test results compared to those in the control group.

Participants were also asked how often they "I noticed that a number of patients who came for a currently experienced chest pain during their most strenuous level of activity compared to one month ago (slightly more often; about the same; slightly less often; much less often). Two-thirds (67%) of patients in the intervention group reported experiencing chest pain much less often compared to 38% of patients in the control group (p=0.042).

Ms. Krohn said it was important to deliver the The study included 92 patients with chest pain and education as a package and to personalise it. "I



explained the information in the brochure and the image, and subtly asked questions to probe if the patient understood. That made it possible to customise the teaching. The sessions took five to 15 minutes depending on how much explanation each patient required. I think discussing the results with patients immediately after the test also helps them to accept the results."

She concluded: "This type of education is likely to become more common in years to come as a way of improving health literacy."

More information: Abstract title: CT of the coronary arteries in patients with noncoronary chest pain. An educational intervention aimed at improving reliance and reducing episodes of recurring chest pain.

Provided by European Society of Cardiology

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