

Heart attack diagnosis missed in women more often than in men

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Chest pain is misdiagnosed in women more frequently than in men, according to research presented today at ESC Acute CardioVascular Care 2021, an online scientific congress of the European Society of Cardiology (ESC). The study also found that women with chest pain were more likely than men to wait over 12 hours before seeking medical help.

"Our findings suggest a gender gap in the first evaluation of chest [pain](#), with the likelihood of heart attack being underestimated in women," said study author Dr. Gemma Martinez-Nadal of the Hospital Clinic of Barcelona, Spain. "The low suspicion of heart attack occurs in both women themselves and in physicians, leading to higher risks of late [diagnosis](#) and misdiagnosis."

This study examined gender differences in the presentation, diagnosis, and management of patients admitted with chest pain to the chest pain unit of an emergency department between 2008 and 2019. Information was collected on risk factors for a heart attack including high blood pressure and obesity. The researchers recorded the

physician's initial diagnosis after the first evaluation of each patient, which is based on clinical history, physical examination, and an electrocardiogram (ECG) and occurs before other examinations like blood tests.

"We had the first impression of the doctor as to whether the chest pain had a coronary cause or another origin such as anxiety or a musculoskeletal complaint," explained Dr. Martinez-Nadal.

A total of 41,828 patients with chest pain were included, of which 42% were women. The median age was 65 years in women and 59 years in men. Women were significantly more likely to present late to the hospital (defined as waiting 12 hours or longer after symptom onset): this occurred in 41% of women compared to 37% of men.

"This is worrying since chest pain is the main symptom of reduced blood flow to the heart (ischaemia) because an artery has narrowed," said Dr. Martinez-Nadal. "It can lead to a myocardial infarction which needs rapid treatment."

In the physician's initial diagnosis, acute coronary syndrome was more likely to be considered the cause of chest pain in men compared to women. Specifically, in 93% of patients, the ECG did not provide a definitive diagnosis. In those patients, the doctor noted a probable acute coronary syndrome (ACS) in 42% of cases—when analysed according to gender, probable ACS was noted in 39% of women and 44.5% of men (p

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