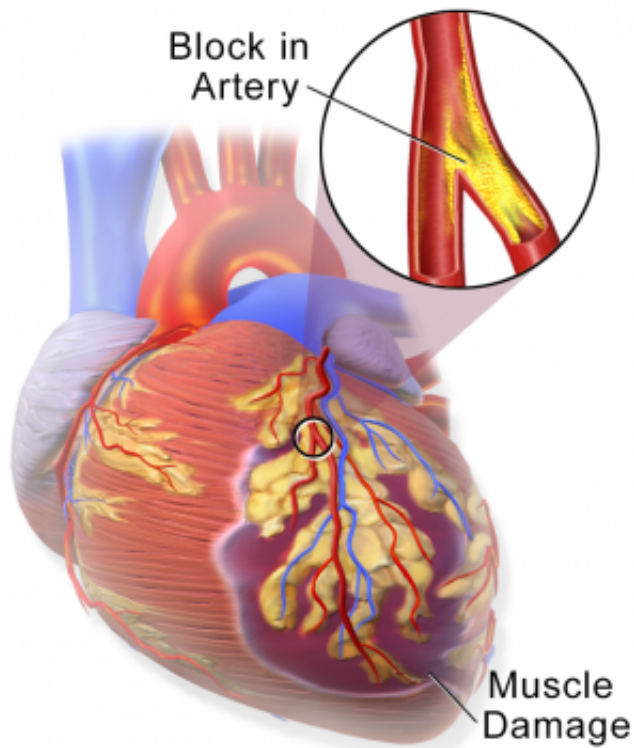


Stress may partly explain worse heart attack recovery in young and middle-aged women

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Heart Attack

Myocardial Infarction or Heart Attack. Credit: Blausen Medical Communications/Wikipedia/CC-A 3.0

Stress may partly explain why young and middle-aged women have a worse recovery after heart attack, according to new research published in the American Heart Association journal *Circulation*.

Although 35,000 [women](#) under age 65 experience [heart attack](#) each year in the United States, there's limited data on psychosocial characteristics and recovery outcomes of young and middle-aged women.

"Our study found a significantly higher level of mental stress in women 18-55 years old with heart attack compared to their male counterparts," said Xiao Xu, Ph.D., lead author of the study and assistant professor of obstetrics, gynecology and reproductive sciences at Yale University in New Haven, Connecticut.

Previous research suggests that mental stress may reduce blood flow and promote plaque forming in the arteries. Stress is also associated with behaviors that may adversely affect health outcomes such as treatment noncompliance.

Researchers analyzed data collected from 2,397 female and 1,175 male heart attack survivors 18-55 years old in the Variation in Recovery: Role of Gender on Outcomes of Young AMI Patients (VIRGO) study, a prospective observational study of young and middle-aged adult [heart attack patients](#) in the United States, Spain and Australia. During their initial hospital stay for heart attack, researchers measured patients' perceived stress using a 14-item scale that gauged their lives as being uncontrollable and overloaded over the past month.

The study showed:

- Women had worse recovery one month after heart attack on multiple outcome measures such as chest-pain-related physical function and quality of life as well as overall health.
- Women had a significantly higher level of [mental stress](#).
- Greater stress among women partially explained their worse recovery.

Women were more likely to be concerned about family issues while men were more likely to be worried about financial matters:

- Family conflict during the past year was reported by about 33 percent of women versus 20 percent of men.
- A major personal injury or illness was reported by 22.4 percent of women versus 16.6 percent of men.
- Death or major illness of a close family member was reported by 36.6 percent of women versus 27.8 percent of men.
- A loss of crop or business failure as heavy stressors was identified more by men (7.4 percent) compared to 3.5 percent of women.

The study's results add to the growing literature on younger heart attack patients and the need to identify and understand how [stress](#) and other psychosocial issues affect recovery.

"We need to think more broadly about our patients," said Harlan Krumholz, M.D., S.M., the study's senior author and director of the Center for Outcomes Research and Evaluation at Yale-New Haven Hospital and a professor in Yale's School of Medicine and Public Health. "We have to consider their state of mind and the experiences of their lives."

Provided by American Heart Association

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