

Lower socioeconomic status linked with heart disease despite improvements in other risk factor

August 26 2011

People with lower socioeconomic status are much more likely to develop heart disease than those who are wealthier or better educated, according to a recent UC Davis study. Published online in *BMC Cardiovascular Disorders*, the outcomes also show that this risk persists even with longterm progress in addressing traditional risk factors such as smoking, high blood pressure and elevated cholesterol.

"Being poor or having less than a <u>high school education</u> can be regarded as an extra risk when assessing a patient's chances of developing cardiovascular disease," said Peter Franks, a UC Davis professor of family and community medicine and lead author of the study. "People with <u>low socioeconomic status</u> need to have their <u>heart-disease</u> indicators managed more aggressively."

Using data from the Atherosclerosis Risk in Communities Study, authors of the current study included information on more than 12,000 people aged 45 to 64 years living in North Carolina, Mississippi, Minnesota and Maryland. Participants reported their education and income levels in 1987, and then over the course of 10 years were periodically evaluated for heart-disease diagnoses and changes in their risk factors, including cholesterol, blood pressure and smoking.

The results indicated that people with lower <u>socioeconomic status</u> had a 50 percent greater risk of developing heart disease than other study



participants.

According to Franks, although it is known that people with low socioeconomic status have a greater risk for developing heart disease and other health problems, the reason is often attributed to reduced healthcare access or poor adherence to treatments such as <u>smoking cessation</u> or medication. This study showed for the first time that the increased risk endured despite long-term improvements in other <u>risk factors</u>, indicating that access and adherence could not account for the differences.

"Low socioeconomic status is a heart-disease risk factor on its own and needs to be regarded as such by the medical community," Franks said.

According to Franks, previous studies could help explain the link between low socioeconomic status and increased heart-disease risk. Social disadvantages and adversity in childhood may result in lasting adaptations to stress that take a bigger toll on the heart. Cumulative effects of social disadvantage throughout the lifespan could also cause more "wear and tear" on the cardiovascular system.

Franks advocates for including socioeconomic status in the Framingham risk assessment, a tool based on outcomes from the Framingham Heart Study, which is commonly used to determine treatments for heartdisease prevention. He points out that health-care providers in the United Kingdom already consider socioeconomic status in determining care plans.

"Doctors could, for instance, moderately increase the dosage of cholesterol-lowering drugs to reflect the higher risk imposed by socioeconomic status," said Franks, whose research focuses on addressing health-care disparities. "Changes like this would be easy to implement, and the benefits could be significant."



More information: The study "Do Changes in Traditional Coronary Heart Disease Risk Factors Over Time Explain the Association between Socio-Economic Status and Coronary Heart Disease?" is available online at <u>www.biomedcentral.com/1471-2261/11/28</u>

Provided by University of California - Davis

Citation: Lower socioeconomic status linked with heart disease despite improvements in other risk factor (2011, August 26) retrieved 1 May 2024 from https://medicalxpress.com/news/2011-08-socioeconomic-status-linked-heart-disease.html

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