

Sleep apnea may cause heart disease in kidney transplant patients

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Sleep apnea is common in individuals who receive without apnea. a kidney transplant and is associated with increased risk of high blood pressure, heart disease or stroke, according to a study appearing in an upcoming issue of the Clinical Journal of the American Society Nephrology (CJASN). Researchers found that kidney transplant patients are just as likely to have this sleep disorder as dialyzed kidney disease patients who are on the transplant waiting list. Therefore, both types of patients who have sleep apnea should be considered at high risk for developing serious heart- F-68841), the Hungarian Kidney Foundation, and related complications.

Cardiovascular disease is the most common cause Lindner, MD, Katalin Fornadi, MD, Maria Eszter of death in individuals who receive kidney transplants, and doctors monitor transplant recipients for high blood pressure, or hypertension, and other signs of heart trouble. Obstructive sleep apnea occurs when an individual stops breathing momentarily during sleep due to obstruction of the airway and has been linked to hypertension. Miklos Zsolt Molnar, MD, PhD (Semmelweis University, Budapest, Hungary), and his colleagues studied the prevalence of sleep apnea in kidney transplant patients and the effects the condition had on their cardiovascular risk.

The study included 100 transplant recipients. The researchers found that moderate-to-severe sleep apnea occurred in one of every four individuals. This rate was similar to that seen in a group of dialyzed kidney disease patients who were waiting for a transplant. In addition, kidney transplant patients with sleep apnea were more than twice as likely to be taking three or more anti-hypertensive drugs as patients without the sleep disorder but still displayed higher blood pressure than patients who slept normally. As seen in the general population, being obese increased patients' risk of developing sleep apnea. When risk scores were calculated to predict patients' risk of developing heart disease or experiencing a stroke, kidney disease patients who had sleep apnea had twice the risk as patients

"We propose that sleep apnea is a new risk factor for hypertension and cardiovascular events in kidney transplanted patients," said Dr. Molnar. "Physicians should screen transplant patients for obstructive sleep apnea and offer appropriate treatment," the authors explain.

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More information: The article, entitled "Sleep Apnea Is Associated with Cardiovascular Risk Factors among Kidney Transplant Patients," will appear online at ciasn.asnjournals.org/ on Thursday, November 19, 2009, doi 10.2215/CJN.04030609.

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