

Systolic blood pressure variability linked to mortality, morbidity

September 29 2016



(HealthDay)—Systolic blood pressure variability (SBPV) is associated



with mortality, coronary heart disease (CHD), stroke, and end-stage renal disease (ESRD), according to a study published in the Sept. 27 issue of the *Journal of the American College of Cardiology*.

Elvira O. Gosmanova, M.D., from the Stratton Veterans Affairs Medical Center in Albany, N.Y., and colleagues examined the impact of increased visit-to-visit variability in a large cohort of U.S. veterans. Data were included for 2,865,157 patients with eight or more outpatient BP measurements. SBPV was measured and correlated with all-cause mortality, incident CHD, stroke, and ESRD.

The researchers found that higher intraindividual SBPV was seen in association with sociodemographic variables (older age, male sex, African-American race, divorced or widowed status), clinical characteristics (lower baseline estimated <u>glomerular filtration rate</u>, higher SBP, and diastolic BP), and comorbidities (presence of diabetes, hypertension, cardiovascular disease, and lung disease). For standard deviation quartile 2 through 4 versus the first quartile, the multivariableadjusted hazard ratios associated with all-cause mortality, CHD, stroke, and ESRD were incrementally higher.

"Higher SBPV in individuals with and without hypertension was associated with increased risks of all-cause mortality, CHD, stroke, and ESRD," the authors write. "Further studies are needed to determine interventions that can lower SBPV and their impact on adverse health outcomes."

More information: Full Text (subscription or payment may be required) Editorial (subscription or payment may be required)

Copyright © 2016 HealthDay. All rights reserved.



Citation: Systolic blood pressure variability linked to mortality, morbidity (2016, September 29) retrieved 28 April 2024 from

https://medicalxpress.com/news/2016-09-systolic-blood-pressure-variability-linked.html

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.