

Dangerous blood pressure spikes among blacks happen five times more often than average

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Black adults experience dangerous spikes in high blood pressure, called a hypertensive crisis, at a rate that is five times the national average, according to a study presented at the American Heart Association's Joint Hypertension 2018 Scientific Sessions, an annual conference focused on recent advances in hypertension research.

Hypertensive crisis is a complication of high <u>blood pressure</u> in which blood pressure quickly and severely soars to life-threatening levels. People often can avoid this dangerous blood pressure escalation by keeping their blood pressure under control with medications and lifestyle modifications.

"We studied an inner-city population to find that being black is a risk factor for progressing from hypertension to hypertensive crisis," said study author Frederick A. Waldron, M.D., M.P.H., M.S., an emergency medicine physician at Newark Beth Israel Medical Center, Newark, New Jersey. "Now that we have effective antihypertensive medications available, hypertensive crisis and hypertensive emergency, a rare but further progression of hypertensive crisis in which organ damage occurs, should not exist to this degree among black or other patients."

In what Waldron said is the largest case control study to date on hypertensive crisis patients, researchers looked back at emergency department medical records of more than 15,000 patients from 2013 to



2016.

They defined hypertensive crisis as blood pressure at or above 200/120 mmHg and found:

- Nearly 1,800, or 11.4 percent, of the 15,631 hypertensive patients that came through the emergency department in the three-year study were in hypertensive crisis.
- Nearly 90 percent of those in hypertensive crisis were black.
- One in four, or 25 percent, of patients with hypertensive crisis went on to develop catastrophic organ failure, including stroke, congestive heart failure, kidney failure or heart attack.
- Being older than 65 years or male, as well as having anemia, chronic kidney disease or a history of stroke and cardiovascular diseases, including high cholesterol, predicted higher risk for hypertensive emergencies. Anemia has not been identified before as a hypertensive emergency risk factor, according to Waldron.
- Insurance status and access to primary care did not affect patients' odds of having a hypertensive crisis.

"There is no good treatment for organ damage, so the best way to address this is to develop a preventative strategy," Waldron said. He suggests efforts to help patients take their medicine properly could help reduce hypertensive crises.

The numbers in the study may be underestimated due to differing definitions of hypertensive crisis. For example, the American Heart Association defines it as blood pressures at or above 180/120 mmHg. This study defined hypertensive crisis as above 200/120. Waldron said future studies should determine rate of adherence to blood pressure medications and follow patients in hypertensive crisis longer to determine true hypertension emergency incidence.



Provided by American Heart Association

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