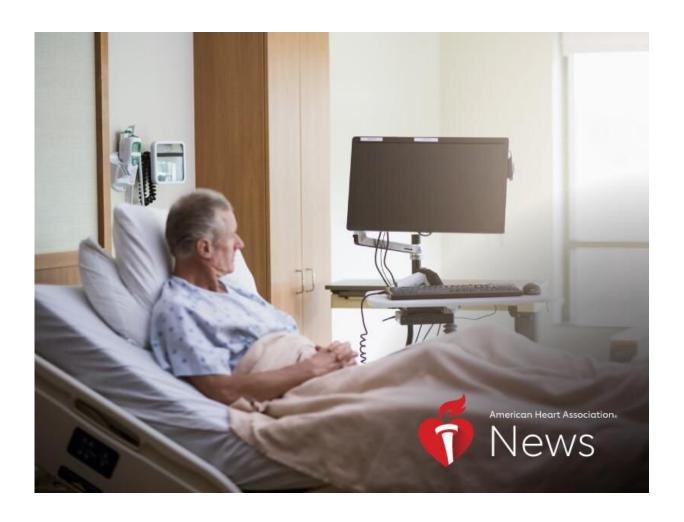


People with dementia may be less likely to receive an advanced treatment for stroke

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Among people having the most common type of stroke—one caused by



a blood vessel blockage—those with dementia appear less likely than others to receive an advanced clot removal treatment, a large new study reports.

The treatment, called mechanical thrombectomy, uses a device to remove a clot from a large vessel to restore blood flow to the brain. Mechanical thrombectomy has a "significant absolute benefit" for <u>stroke patients</u> with a large vessel blockage, especially when used within six hours of symptom onset, research has shown.

In the new study, acute ischemic strokes—those caused by a blockage of blood flow to the brain—tended to be more disabling in the group with dementia. Yet just 3.4% of those patients were treated with mechanical thrombectomy, compared with 6% of those without dementia, researchers found. The procedure has a six-hour recommended time window, though treatment sometimes can be given up to 24 hours after the start of symptoms.

The study found no difference between the two groups in the use of intravenous clot-busting drugs, which can be given up 4.5 hours after symptoms begin. The findings were published Wednesday in the American Heart Association journal *Stroke: Vascular and Interventional Neurology*.

"The main takeaway point from this is that patients with dementia present with a higher <u>stroke</u> severity at onset. However, the number of thrombectomies were lower for that patient population," said the study's lead author, Dr. Hamidreza Saber, neuro-interventional fellow at the University of California, Los Angeles, David Geffen School of Medicine.

About 1 in 10 people having a clot-caused stroke also have dementia, according to a recent scientific statement from the American Heart



Association/American Stroke Association. That statement describes "treatment dilemmas" for stroke teams lacking adequate research data to guide them in caring for people who had dementia or a disability before the stroke.

Treatment teams might also fear mechanical thrombectomy could cause a brain hemorrhage in stroke patients with dementia. In the study, people with dementia who were treated with mechanical thrombectomy were more likely to develop intracranial hemorrhage, or bleeding within the skull (including in the brain). But other blood vessel changes caused by dementia could account for that increased risk, the study noted.

The research looked at nearly 180,000 <u>hospital admissions</u> for acute ischemic stroke from October 2016 through December 2017. Saber said the study is one of the first nationwide to examine hospital admissions for <u>acute ischemic stroke</u> in people with and without dementia.

Limitations include the fact that the admissions data did not identify which patients were eligible for mechanical thrombectomy and how much time had passed between the onset of stroke symptoms and hospital care.

Dementia in people who received <u>mechanical thrombectomy</u> did not appear to increase the odds of dying in the hospital, nor did it decrease the chances of a favorable outcome at hospital discharge, the researchers found, after accounting for relevant factors including stroke severity, age and medical history.

"This study shows that dementia patients are getting excluded from thrombectomy treatment at a higher rate, although their outcomes from that treatment are not necessarily poorer," Saber said.

"This is a very exciting paper and an eye-opener," said Dr. Gillian



Gordon Perue, assistant professor of clinical neurology at the University of Miami in Florida. Using comprehensive, insurance-based data on inpatient care, the research is a "first snapshot of a moment in time" of ischemic stroke treatment in U.S. hospitals for people with and without dementia, she said. "This is an area where we need more data."

Gordon Perue, who was not involved in the new study, co-authored the recent scientific statement on stroke treatment in people with dementia. She said the new study highlights existing disparities in timeliness and appropriateness of stroke treatment in people with dementia.

Because stroke patients with dementia have largely been excluded from randomized controlled trials studying treatments that restore blood flow, "we don't know what happens to these patients three months later," Perue said. "Going forward, clinical trials need to include patients with dementia so we can see long-term outcomes."

As the U.S. population ages, the number of people with cognitive disorders is expected to grow. Saber said the next steps toward improving care for these people include using better tools to assess dementia and producing more data specific to people with the condition, such as markers that could predict how those undergoing blood flow-restoring therapies will fare.

"We want to deliver precision medicine," he said. "Not all dementia patients are the same, so who are the dementia patients who would most benefit from a treatment, and who would not?"

More information: Hamidreza Saber et al, Mechanical Thrombectomy for Acute Ischemic Stroke in Patients With Dementia, *Stroke: Vascular and Interventional Neurology* (2022). DOI: 10.1161/SVIN.121.000164



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