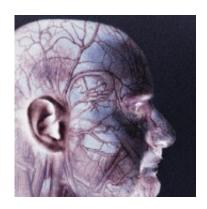


FDA approves new device aimed at easing stroke risk

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ENROUTE system cleans out 'debris' in neck artery for those requiring better blood flow to the brain.

National Heart, Lung, and Blood Institute.

"Until today's clearance, the only FDA-cleared systems to capture and remove debris and prevent them from reaching the brain during carotid angioplasty and stenting procedures required entry into the body through the femoral artery using an incision in the groin," explained Dr. William Maisel in an FDA news release. He is acting director of the Office of Device Evaluation at the FDA's Center for Device and Radiological Health.

He said the new system is meant for patients who have twisted or "tortuous" vessels that do not "permit access via the groin for treating their narrowed carotid arteries."

(HealthDay)—A new technology designed to reduce One expert applauded the FDA approval.

stroke risk in certain patients has been approved by the U.S. Food and Drug Administration, the agency announced Monday.

The ENROUTE Transcarotid Neuroprotection System (TNS) is the first device designed to access the carotid (neck) arteries through an incision in the neck, instead of the groin, the agency explained.

The system was approved for use in people who are undergoing procedures to restore normal blood flow in narrowed neck arteries.

The system also has a "blood flow reversal system," to capture bits of blockage in the arteries that are dislodged during angioplasty and stenting.

The carotid arteries supply blood to the brain, but can be narrowed or blocked by accumulations of cholesterol or fatty substances called plaque. If a piece of plaque breaks off, it can travel to the brain and cause a stroke.

strokes in the United States, according to the

"This is a novel approach to 'cleaning out' harmful plague that has been shown to cause strokes," said Dr. Paul Wright, chair of neurology at North Shore University Hospital in Manhasset, N.Y.

"Until now, the only options available are carotid stenting and open surgery," he explained. "Carotid stenting involves entering the groin and traveling all the way up to the plaque site."

In the new system, the ENROUTE device "enters the neck through a small incision above the blockage and then places the stent," said Wright, who is also at Long Island Jewish Medical Center in New Hyde Park, N.Y. "Meanwhile, the potentially harmful plaque is filtered outside of the body. This novel approach offers patients another proven way to 'clean out' potentially harmful plaque in a safe manner."

The FDA's approval of ENROUTE TNS, made by Silk Road Medical in California, is based on the results of a clinical trial paid for by the company. Carotid artery disease causes more than half of the The study found that the rate of stroke, heart attack and death among patients treated with the system



was just 3.5 percent, outperforming the study's target goal of 11 percent.

However, at least one serious complication occurred in about 14 percent of patients, the study found. These included excessive bleeding or injury at the site where the device was inserted, low blood pressure, and the formation of blood clots within the stent after placement in the carotid artery.

Still, the rate and types of complications for ENROUTE are similar to those associated with other carotid artery procedures, the FDA noted.

More information: The U.S. National Heart, Lung, and Blood Institute has more about <u>carotid</u> <u>artery disease</u>.

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