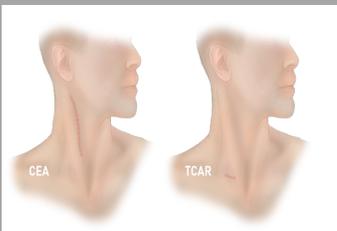


# Breakthrough Technology for Carotid Artery Disease to Help Prevent Stroke

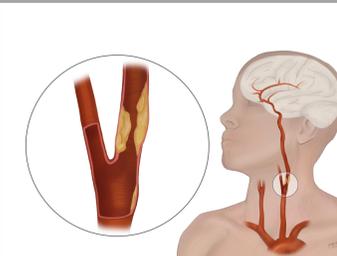


Dr. Lyssa Ochoa performs first minimally invasive TCAR procedure at Main Methodist Hospital.

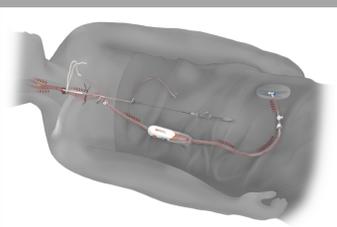
## CEA vs. TCAR Scars



## Carotid Artery Disease



## TCAR Illustration



## TCAR Procedure Offers Patients Less-Invasive Treatment Options

Every year, 15 million people worldwide suffer a stroke, also known as a brain attack. Nearly 6 million die and another 5 million are left permanently disabled. A stroke occurs when the blood supply to your brain is interrupted or reduced, which deprives your brain of oxygen and nutrients – causing your brain cells to die.

While there are several causes for stroke, it is estimated that up to a third of cases are caused by carotid artery disease – the buildup of plaque in one or both of the arteries in the neck that supply blood from your heart to your brain. When plaque builds up in the carotid arteries, they begin to narrow and blood flow slows down, potentially causing a stroke if blood flow stops or plaque fragments dislodge and travel up to the brain.

Some individuals can manage carotid artery disease with medications and lifestyle changes. However, more severe cases may require surgery to repair the blockage in the artery. At San Antonio Vascular & Endovascular Clinic, Dr. Lyssa Ochoa is offering a new technology called TransCarotid Artery Revascularization (TCAR) to treat patients with carotid artery disease who are at risk for

traditional open surgery known as carotid endarterectomy (CEA).

While any repair of the carotid artery carries some risk of causing a stroke because of the intervention itself, TCAR was designed to help lower that risk.

Like CEA, the TCAR procedure involves direct access to the carotid artery, but through a much smaller incision at the neckline just above the clavicle instead of a longer incision on the neck. During the TCAR procedure, a tube inserted into the carotid artery is connected to a system that temporarily directs blood flow away from the brain to protect against dangerous debris from reaching the brain during the procedure. Surgeons then filter the blood before returning it to a vein in the groin, and a stent is implanted directly into the carotid artery to stabilize the plaque and prevent future strokes. The entire procedure is performed in less than half the time of CEA – limiting the stress on the heart and significantly cutting the risk of the patient having a stroke or heart attack during the procedure.

Over 20,000 TCAR procedures have been performed worldwide through clinical trial and commercial use. TCAR has been studied extensively, and the clinical data have been excellent.

## About Dr. Lyssa Ochoa



Dr. Lyssa Ochoa is a board-certified vascular surgeon and founder of the San Antonio Vascular and Endovascular Clinic. She was born and raised along the Texas-Mexico border and attended medical school, general surgery residency, and vascular surgery residency at Baylor College of Medicine in Houston, TX.

She has been practicing vascular surgery in San Antonio since 2011 when she quickly recognized that the number of diabetes-related amputations in San Antonio occur in rates up to 3 times the statewide rate in some of the city's most underserved and socioeconomically challenged zip codes. Understanding that collaboration is key to change health outcomes, Dr. Ochoa has partnered with hospitals, managed care organizations, universities, city council districts, and clinicians of all kinds to develop amputation prevention programs, awareness platforms, and additional resources.

With 427,000 new diagnoses of Carotid Artery Disease made every year in the U.S., Dr. Lyssa Ochoa is helping patients safely reduce their risk of stroke using a new technology called TCAR.



Dr. Lyssa Ochoa started using this breakthrough technology at Main Methodist Hospital here in San Antonio for the first time in November, 2020 and saw excellent results. Patients who undergo the TCAR procedure recover quickly and almost always go home the next day to return to full and productive lives with less pain and smaller scars.

If you have been diagnosed with carotid artery disease and would like to schedule a consultation to see if the TCAR procedure is right for you, call 210-610-7283 or visit <http://thesaveclinic.com/>

You can also learn more about the procedure at <http://silkroadmed.com/the-tcar-procedure/>.

### LOCATIONS

**A** Southeast-4025 E. Southcross Blvd., Ste. 15, San Antonio, TX, 78222

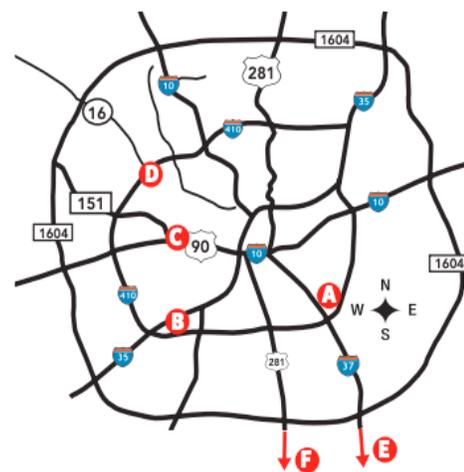
**B** Southwest-7333 Barlite Blvd., Ste. 100, San Antonio, TX, 78224

**C** West-590 N General McMullen Dr., San Antonio, TX

**D** Bandera- 6430 Bandera Rd., Ste. 110, San Antonio, TX

**E** Floresville-497 10<sup>th</sup> St., Ste. 203, Floresville, TX

**F** Pleasanton-1102 N. Main St., Pleasanton,



210-610-7283

[www.TheSAVEClinic.com](http://www.TheSAVEClinic.com)