

TCAR

TransCarotid Artery Revascularization

*Driven by
Stroke
Prevention*



SILKROAD >
MEDICAL®

*Less Invasive Procedure

● TCAR

*TCAR Incision



Cosmetic result of less
invasive procedure.

Local anethsia can
improve recovery time.

● CEA

CEA Incision



Length of Stay

 1.7 days

 3.0 days

TCAR



Forward

TransCarotid Artery Revascularization

Direct carotid artery access with **robust blood flow reversal** during angioplasty and stenting. Avoids unprotected steps and removes micro and macro emboli throughout the intervention for **CEA-like neuroprotection** in a **less invasive approach**.

SURGICALLY INSPIRED:

- Direct carotid access
- CCA clamp & loop control
- Backbleeding to clear debris



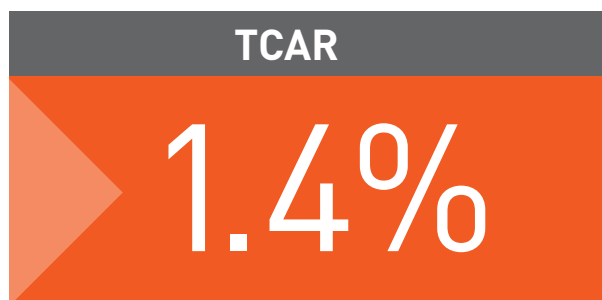
ENROUTE Transcarotid Stent delivery under high reverse flow in TCAR Procedure

Thinking Through Reverse Flow

TCAR Clinical Outcomes

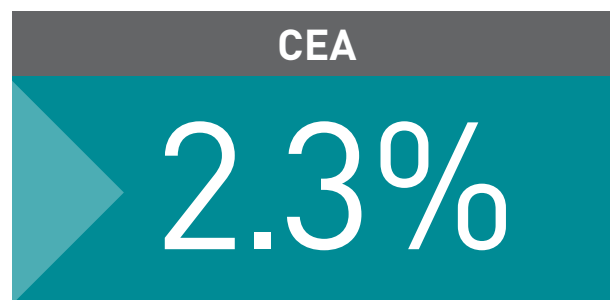
The overall stroke rate of 1.4% is the lowest reported to date for any prospective, multi-center trial of carotid stenting.” – J Vasc Surg 2015;62:1227-35

> TCAR Stroke Rates in Clinical Trials



HIGH SURGICAL RISK PATIENTS

ROADSTER¹ N=219



STANDARD SURGICAL RISK PATIENTS

CREST² N=1,240

> Real World Stroke Rates in High Surgical Risk Patients

1.4%

TCAR

VQI TSP* N=2,545

3.6%

CEA

SVS Registry³ N=6,370

J Vasc Surg. 2013;57:1318-24

* In-Hospital Outcomes of TCAR and CEA in the SVS-VQI TCAR Surveillance Project Marc Schermerhorn, MD; Patric Liang, MD; Hanaa Dakour Aridi, MD; Vikram Kashyap, MD; Grace Wang, MD; Brian Nolan, MD; Jack Cronenwett, MD; Jens Eldrup-Jorgensen, MD; Mahmoud Malas, MD, MHS – VEITH Symposium Presentation, November 2018

¹ ROADSTER: J Vasc Surg. 2015 Nov;62(5):1227-34. The Silk Road System for Transcervical Access with Reversal of Flow to Perform TCAR: Results of the ROADSTER Trial - VEITH, 2016

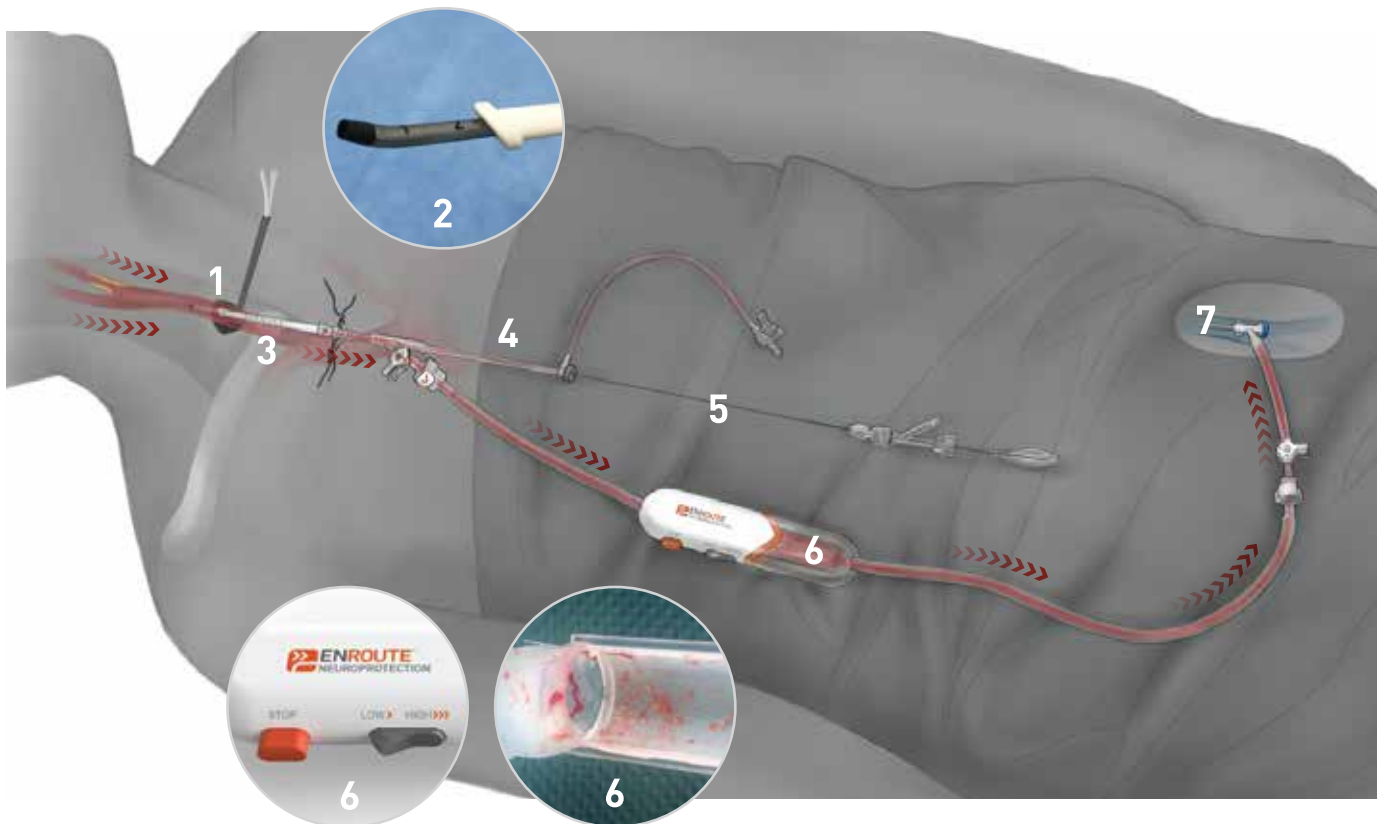
² CREST Trial: N Engl J Med 2010;363:11-23

³ The impact of Centers for Medicare and Medicaid Services high-risk criteria on outcome after carotid endarterectomy and carotid artery stenting in the SVS Vascular Registry - Marc L. Schermerhorn, MD et al.

ENROUTE®

Transcarotid Neuroprotection & Stent System

1. 035" extra support guidewire, dilator and Uber Flex™ arterial sheath designed in combination for **atraumatic vessel entry**.
2. Angled-tip Uber Flex™ arterial sheath maintains coaxial position in lumen for **smooth interventional device delivery** and **optimized flow reversal**.
3. Uber Flex™ arterial sheath includes outer stopper with suture grooves and hub eyelets for **sheath stability**.
4. Extended working channel for interventional device delivery **enhances transcarotid ergonomics** away from image intensifier.



5. Shorter length 57cm ENROUTE Transcarotid Stent delivery system **optimizes working area** and reduces stored energy for **precise stent deployment**.
6. Dynamic flow controller **modulates reverse flow rate** and integrated, 200µ filter **captures embolic debris**.
7. Percutaneous Venous Return Sheath **completes the circuit** and returns filtered blood to the patient.