



Speaker Disclosure • Nothing to disclose Nothing to disclose

Background Previous SVS/ESVS guidelines recommend CEA in pts. w/≥60% ACS in average surgical risk pts. if periop stroke/death rate was <3% Several auth. felt these trials were long outdated & w/advances in BMT, Rx should be modified Should all ACS pts. only be offered BMT or are there certain pts. who may benefit from addt'l prophylactic CEA or CAS? Exact % of ACS pts. who should be offered intervention is not known at this time (cont.)

Background (con't) Only 20% of pts. Will have TIA prior to stroke TIA can occur during sleep & these pts. cont. to be considered Asx (Leary et al, Cerebrovasc Dis, 2003) BMT improved sig. over past 20 yrs.; similarly, periop stroke rate for modern CEA in most series has been around 1% include. CREST trial (periop stroke rate in CEA pts. w/ACS was around 1.4% (cont.)

SVS Recommendations • Is CEA recommended over maximal medical therapy for low surgical risk asx patients? - Recommend CEA with best med rx for ≥70% st over maximal med rx alone, provided 30-day stroke/death rates are ≤3% and patient life expectancy exceeds 5 yrs (grade IB) (AbuRahma A et al. Society for Vascular Surgery clinical practice guidelines for management of extracramial cerebrovascular disease. JIVS 2022). **Nonether 15-21, 2024**

Asymptomatic High-risk for CEA TCAR is preferred over CEA and TFCAS in high surgical risk (both) anatomically and physiologically) There are insufficient data to recommend TFCAS as primary therapy for neurologically asx pts with 70-99% diameter st.

- Data from CREST, ACT, and VQI suggest in properly selected asx pts, CAS may be equivalent to CEA in the hands of <u>experienced</u>
- Specifically, the combined stroke and death rate must be <3% to insure benefit for the pt.

SVS

Recommendation Asx pts with 70% or greater diameter stenosis should be considered for CEA, TCAR, or TFCAS for reduction of long-term risk of stroke, provided pt has a 3-5 yr life expectancy and perioperative stroke/death rates can be 3% or less. (AbuRahma A et al. The Society for Vascular Surgery implementation docu management of extracranial cerebroyascular disease, JVS 2021)

Recommendation			
Revascularization Technique	High Risk Criteria (based on clinical judgement)		
Carotid Endarterectomy (CEA)	Neck irradiation		
	Previous CEA		
	Previous neck surgery		
	Tracheal stoma		
	Lesion above C2		
	Contralateral vocal cord injury		
	Hostile neck due to obesity, immobility, or		
	kyphosis		
	Medical high risk		

Recommendation		
Revascularization Technique	High Risk Criteria (based on clinical judgement)	
Trans-cervical Carotid Stent (TCAR)	Heavily calcified carotid lesion Lesion within 5 cm of clavicle CCA diameter <6 mm Neck irradiation Tracheal stoma Hostile neck due to obesity, immobility or kyphosis Medical high risk	
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Recommendation				
Revascularization Technique	High Risk Criteria (based on clinical judgement)			
Trans-femoral Carotid Stent (TF-CAS)	Age > 75 y/o Heavily calcified carotid stenosis Complex bifurcation stenosis >15 mm length Tortuous internal carotid artery Tortuous common carotid artery Type 3 or tortuous aortic arch Heavy atherosclerotic burden of arch			

ESVS Asx Standard Risk			
imaging/clinical chara	easx 60-99% st, in the presence of acteristics associated with an †risce/death rates are ≤3% and patien vel B)	k of late stroke,	
For average surgical risk pts with an asx 60-99% stenosis in the presence of 1 or more imaging/clinical characteristic associated with an ↑ risk of late stroke, CAS may be alternative to CEA, provided 30-day stroke/death rates ≤3% and patient life expectancy exceeds 5 yrs (IIb Level B)			
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Asymptomatic High-risk for CEA ESVS • For asx pts deemed by the multidisciplinary team to be high risk for surgery with asx 60-99% st in the presence of 1 or more imaging/clinical characteristics with an ↑ risk of late stroke on best med rx, CAS may be considered, provided anatomy is favorable, 30-day death/stroke rates are ≤3% and patient life expectancy exceeds 5 yrs (IIb Level B)

