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Supplementary table. Current guidelines for treatment of symptomatic and asymptomatic carotid stenosis

Guidelines	Symptomatic	OMT	CEA	CAS
	status			
ESC Guideline	symptomatic	Stenosis <50%	70–99% carotid stenosis (Class I, level A),	High-risk anatomical features or medical
			50–69% carotid stenosis (Class IIa, level A),	comorbidities for CEA, with documented procedural
			with documented procedural death/stroke rate <	death/stroke rate < 6% (Class IIa, level B);
			6%;	Alternative to CEA in average surgical risk patients,
			Preferably performed within 14 days of symptom	with documented procedural death/ stroke rate < 6%
			onset (Class I, level A)	(Class IIb, level B);
				Preferably performed within 14 days of symptom
				onset (Class I, level A)
	asymptomatic	Stenosis < 60%;	Average surgical risk patients with 60-99% stenosis	High risk for CEA patients with 60-99% stenosis and
		Occlusion or near-	and characteristics (clinical and/or imaging)	characteristics associated with an increased risk of
		occlusion;	associated with an increased risk of stroke,	stroke, provided documented perioperative
		Unfavorable anatomy or	provided documented perioperative stroke/death	stroke/death rates are <3% and the patient's life
		life expectancy ≤ 5 years	rates are <3% and the patient's life expectancy is >	expectancy is > 5 years (Class IIa, level B);
			5 years (Class IIa, level B);	Alternative to CEA in average surgical risk patients
				with 60-99% stenosis and characteristics associated
				with an increased risk of stroke, provided
				documented perioperative stroke/death rates are <3%
				and the patient's life expectancy is > 5 years (Class
				IIb, level B)
AHA/ASA	symptomatic	Stenosis <50%:	70%–99% carotid stenosis, with perioperative	Alternative to CEA for average- or low-risk surgical
guideline		antiplatelet therapy, statin	morbidity and mortality risk estimated to be <6%	patients with >70% stenosis by noninvasive imaging
		therapy, and risk factor	(Class I, level A);	or >50% by catheter-based imaging or noninvasive
		modification is		imaging with corroboration and the anticipated rate

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	recommended for all	50%–69% carotid stenosis, in combination of	of periprocedural stroke or death is <6% (Class IIa,
	patients with carotid artery	patient-specific factors (e.g, age, sex, and	level B);
	stenosis and a TIA or	comorbidities), with perioperative morbidity and	CAS in equivalent to CEA in younger patients (Class
	stroke (Class I, level A).	mortality risk estimated to be <6% (Class I; Level	IIa, level B);
		B);	>70% carotid stenosis with anatomic or medical
		Performed within 2 weeks of neurological event if	conditions associated with increased risk for surgery
		no contraindications to early revascularization	or presence of other specific circumstances (such as
		(Class IIa, level B);	radiation-induced stenosis or restenosis after CEA)
		Preferred in patients > 70 years old; CAS is	(Class IIa, level B);
		equivalent to CEA in younger patients (Class IIa,	Performed by operators with established
		level B);	periprocedural stroke and mortality rates of <6% for
		Performed by operators with established	symptomatic patients (Class I, level B);
		periprocedural stroke and mortality rates of <6%	Performed within 2 weeks of neurological event if no
		for symptomatic patients (Class I, level B);	contraindications to early revascularization (Class
			IIa, level B);
asymptomatic	Daily aspirin, statin,	Considered in patients with >70% stenosis if risk of	Highly selected patients with carotid stenosis
	appropriate medical	perioperative stroke, MI and death <3%.	(minimum, 60% by angiography, 70% by validated
	therapies and lifestyle	Effectiveness compared with OMT alone not	Doppler ultrasound). Effectiveness compared with
	changes for all patients	established (Class A, level A);	OMT alone not well established (Class IIb, level B);
	(Class I, level C);		
	Aspirin perioperatively		
	unless contraindicated		
	(Class I, level C);		
	Effectiveness of CEA/CAS		
	and OMT alone not well		
	established (Class IIb,		
	level B).		

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ASA/ACCF/AHA/	symptomatic	Patients at high risk of	>70% carotid stenosis and average or low surgical	Alternative to CEA in patients with >70% stenosis as
AANN/AANS/		complications for CEA or	risk (Class I, level A) or	documented by noninvasive imaging or >50%
ACR/ASNR/CNS/		CAS because of	> 50% as documented by catheter angiography	stenosis as documented by catheter angiography with
SAIP/SCAI/SIR/		comorbidities;	(Class I, level B) with estimated rate of	average or low risk of complications associated with
SNIS/SVM/		Effectiveness of	perioperative stroke or mortality less than 6%;	CAS, with anticipated rate of periprocedural stroke or
SVS guideline		revascularization versus	When revascularization is indicated in older	mortality less than 6% (Class I, level B);
		OMT alone not well	patients, particularly when arterial patho-anatomy is	When revascularization is indicated in patients with
		established (Class IIb,	unfavorable for CAS (Class IIa, level B);	neck anatomy unfavorable for arterial surgery (Class
		level B);	Performed within 2 weeks is preferable (Class IIa,	IIa, level B);
		Stenosis <50%;	level B).	Performed within 2 weeks is preferable (Class IIa,
		Chronic total occlusion;		level B).
		Severe disability from		
		stroke.		
	asymptomatic	Patients at high risk of	More than 70% stenosis, and risk of perioperative	Considered in highly selected patients with stenosis
		complications for CEA or	stroke, MI, and death is low (Class IIa, level A);	(minimum 60% by angiography, 70% by validated
		CAS because of		Doppler ultrasound).
		comorbidities;		Effectiveness compared with OMT alone not well
		Effectiveness of		established (Class IIb, level B);
		revascularization versus		
		OMT alone not well		
		established (Class IIb,		
		level B);		
		Stenosis <50%;		
		Chronic total occlusion;		
		Severe disability from		
		stroke.		