







Only a 1%/year reduction in stroke with CEA

In ACAS the 30-day stroke or death rate was 2.3% (including the angiographic risk) or 1.7% (excluding the angiographic risk). In ACST the overall 30-day stroke or death rate was 3.0% (ACAS, 1995; ACST-1 2010)

BUT- Major Improvements in Non-Invasive Arterial Care Mean:

• Average annual ipsilateral stroke rate is now very low (< about 0.8%/year)

No current proven procedural indication for anyone

• 'High stroke risk' ACS pts who now benefit from a procedure are rare, if existent, & unidentified

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Abbott et al, JVS, 2020, Abbott, Front Neurol, 2022



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Claims CAS is equivalent to CEA when it is not Uses underpowered RTs, claims no difference & ignores trends Includes parameterized with the underpower stroke comparisons
* Omits peri-procedural stroke/death & statistics in comparisons * Discounts excess CAS strokes as 'minor strokes'
 Distracts from the main issue - procedural efficacy Does not include any comparisons with current 'BMT' Does not describe current 'BMT' or advocate trialling it Ignores ACS pts with no procedural benefit in RTs CEA vs MT
 * Speculation: cumulative risk with BMT, stenting technology is improving & may benefit * Cites anecdotal CAS cases with good imaging outcomes * Cites 'low' procedural stroke/death rates – not justification Veithsymposium 2023; Abbott Education: https://www.cardiovascular.abbott/us/en/hcp/education- training/endovascular-education-training/peripheral-on-demand.html

In Contras	st, CA	AS Is	Wors	e thai	n CEA						
CAS Overall Causes ≈ 1.5-2 x More Peri-procedural Strokes/Deaths – Asymptomatic Carotid Stenosis											
			CAS	CEA	OR/HR, 95%CI						
ACST-2, 2021	3625	5 mean	3.5	2.6	1.35 (0.9-2.0)	0.12					
ACT1, 2016*	1453	0-5	2.9	1.7	1.7 (0.7- <u>4.1)</u>	0.33					
CREST1, 2010*	1181	2.5 median	2.5	1.4	1.9 (0.8- <u>4.4</u>)	0.15					
SPACE-2, 2019	400		2.5	2.5	1.0 (0.3-3.6)	0.96					
SAPPHIRE, 2004*	237		5.4	4.6	1.2 no raw data						
Haifia, Israel, 2016*	136	2.1 mean				NS					
Reached significant Registries: 30-day of	ce in me or inpatie	ta-analysis o ent strokes /c	f randomis leaths: SVS	ed trials*;	Batchelder et a histrative data se	. 2019 ts.					

CAS Stroke Risk not compensated by CEA MI risk Abbott et al JVS 2020, Batchelder et al 2019, Muller et al Cochrane System RV 2020

1	V	CAS &	& AC	S	K					
Trends: More Strokes in the Long-Term Include Peri-Procedural Period of Course!										
Randomized Trial >400 pts, FU >12mos	'ACS' n	Follow- up (yrs)	Outcom CAS	e Measure (%) vs CEA	CAS Excess	P				
			PP strok	e/death or later s stroke	HR, 95%CI					
CREST-1, 2010	1181	4 by KMA 2.5 median	4.0	2.2	1.9 (1.0-3.7)	0.07				
ZI III III			PP deat	h or any stroke						
ACST-2, 2021	3625	5 mean	8.6	7.1	1.2 (1.0- 1.6)	0.09				
			Any-stro	ke free survival						
[ACT1, 2016	1453	5 by KMA (?median)	93.1	94.7	No raw data. Under- powered	0.44]				
ACS=asymptomatic carotid st	enosis, SC	S=symptomatio	c patients; Or	range=underpowere	d study					



Mr Metzger: CAS Harm Camouflaged by Including MI, Causing Underpowering & Claiming No Difference Peri-Procedural Stroke or Death or MI & Later Ipsilateral Stroke in CREST-1: CAS vs CEA: HR 1.10; 95%CI 0.83-1.44, *P* =0.51



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