Long-Term Results of a RCT Analyzing the Results of Systematic Coronary Angiography before Elective Carotid Endarterectomy in Patients with Asymptomatic Coronary Artery Disease

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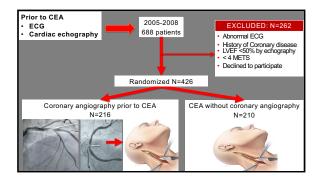
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CONFLICTS OF INTEREST STUDY REGISTRATION

- No conflicts of interest to declare
- Trial Approved by the Institutional Review Board and supported by a grant from the University of Rome
- ClinicalTrials.gov number: NCT02260453

GOAL OF THE STUDY

Evaluate the long-term results of systematic coronary angiography prior to elective carotid endarterectomy on survival and occurrence of myocardial infarction in patients with asymptomatic coronary artery disease



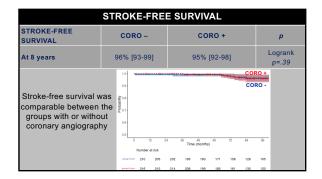
				ANGIOGRA PATIENTS)	PHY
Coronary angiograp	hy			EX/65068	1000 00
Lesion 31% N=68 N Patterns of disease	I = 148 Patients N (%)	Normal 69% PCI N (%)	CABG N (%)	92-14) 10, 7758 (71: 1758) 10, 001 / 52: 004 / 14:18	Aca Tri. 20.0000000000
Single-vessel Disease	43 (64)	43 (64)	-	66 patients	Stents
Two-vessel Disease	19 (28)	19 (28)	-	With PCI N (%)	per patient
Three-vessel Disease	3 (4)	2 (2.5)	1 (1.5)	43 (65)	1-2 stents
Left main Disease	3 (4)	2 (2.5)	1 (1.5)	23 (35)	[3-4] stents
Total	68 (100)	66 (97)	2 (3)		

	OUTCOMES					
30-Day	ANY DEATH, STROKE OR MYOCARDIAL INFARCTION (MI)					
Kaplan-Meier	SURVIVAL					
Univariate	STROKE-FREE SURVIVAL					
analysis	CUMULATIVE RISK OF MYOCARDIAL INFARCTION					
Multivariable analysis	 COX PROPORTIONAL HAZARDS SURVIVAL Independent variable: MI-free survival Explanatory variables: Coronary angiography, diabetes, hypertension, age 					

INDICATION FOR CAROTID SURGERY							
INDICATION	ALL N= 426	CORO + N= 216	CORO- N= 210	р			
ASYMPTOMATIC STENOSIS >75% (NASCET)	308 (72.3)	157 (72.7)	151 (71.9)	.911			
STROKE / TIA	118 (27.6)	59 (27.3)	59 (28.1)	.981			

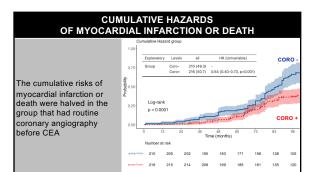
CAROTID ENDARTERECTOMY - TECHNIQUE								
TECHNIQUE	ALL N (%)	CORO + N (%)	CORO - N (%)	p				
CEA	426	216	210					
CEA + Patch	353 (83)	177 (82)	176 (84)	000				
CEA Eversion	73 (17)	39 (18)	34 (16)	.699				
Shunt	45 (11)	26 (12)	19 (9)	.347				

	30-DAY PERIOD								
EVENT	ALL N=426	CORO – N= 210	CORO + N= 216	p					
COMBINED DEATH AND STROKE RATE	1.1%	1.8%	0.5%	.373					
STROKE	0.7%	1.0%	0.5%	.546					
MYOCARDIAL INFARCTION	2.1%	4.3% 9 patients with MI (one death)	0%	.002					



		SURVI	VAL			
SURVIVAL	cc	DRO –		COR	0 +	p
At 8 years	71%	[65-78]		72% [6	6-79]	Logrank <i>p</i> =.66
Survival was not improved by sys coronary angiogr prior to CEA	tematic	100 0.75 0.25 Log-rank p = 0.66 0.00 0.12 Number at rist purporter 210 22 purporter 210 22	15 202	59 48 Time (mont 195 183 208 199	e0 72 hsj e101 168 185 161	RO + RO - 09 105 120

SURVIVAL W	ІТНОИТ МҮС	DCA	RD	AL	IN	AF	RC	TIC	DN	
MI-FREE SURVIVAL CORO –			CORO +					р		
At 8 years	51% [45-58]		69%	[63-	75]				ranl 001	
MI-free survival was significantly improved systematic coronary angiography prior to C		Beed 1.00 0.75- Approv.60 0.25- 0.00 0		24	³⁶ Tim 195 208	40 40 40 40 40 40 40 40 40 40 40 40 40 4	© 171 185	72	COR COR 54 128 135	69% 51%



COX PROPORTIO	NAL HAZARD	S SURVIVA	L MODEL
			Better MI-Free Survival
The combined risk of	Coronarography Coro-		-
death or MI during a follow-up of 8 years was	Coro+	0.53 (0.39-0.73, p<0.001)	⊢− ∎−−1
reduced by half for	Diabetes		•
patients randomized to coronary angiography	Diabetes	1.39 (0.99-1.95, p=0.057)	
prior to CEA and	Hypertension		
increased by half after	Hypertension	1.24 (0.85-1.82, p=0.265)	⊢ ,∎,,,
75 years	Age <75 years		-
	275 years	1.58 (1.15-2.17, p=0.005)	⊢ ∎
			0.5 1.0 1.5 2.0 HR, 95% CI

CONCLUSIONS

In asymptomatic coronary-artery patients, Systematic coronary angiography prior to CEA followed by selective PCI or CABG significantly reduces the incidence of late myocardial infarction, but did not increase long-term survival after CEA.