

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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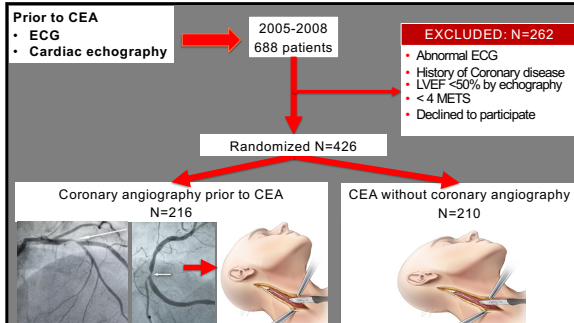


CONFLICTS OF INTEREST STUDY REGISTRATION

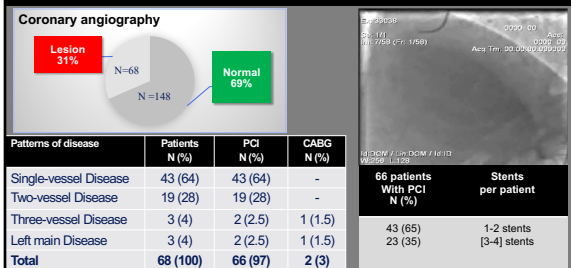
- No conflicts of interest to declare
- Trial Approved by the Institutional Review Board and supported by a grant from the University of Rome
- [ClinicalTrials.gov](https://clinicaltrials.gov/ct2/show/study/NCT02260453) number: NCT02260453

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**



RESULTS OF CORONARY ANGIOGRAPHY GROUP CORO+ (216 PATIENTS)



OUTCOMES

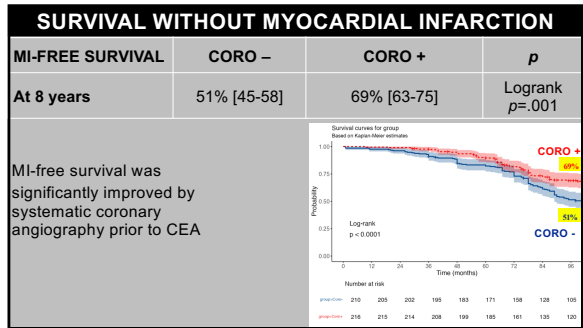
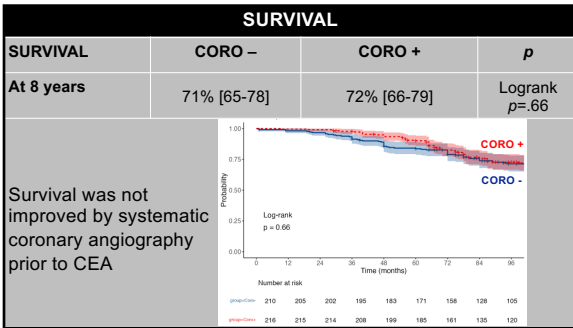
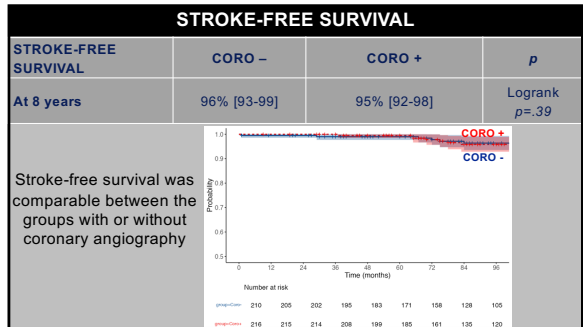
- 30-Day**
 - ANY DEATH, STROKE OR MYOCARDIAL INFARCTION (MI)
- Kaplan-Meier Univariate analysis**
 - SURVIVAL
 - STROKE-FREE SURVIVAL
 - CUMULATIVE RISK OF MYOCARDIAL INFARCTION
- Multivariable analysis**
 - COX PROPORTIONAL HAZARDS SURVIVAL

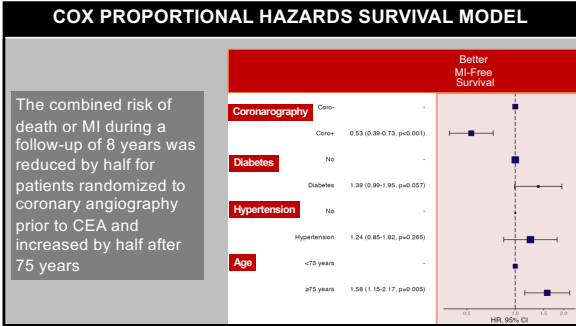
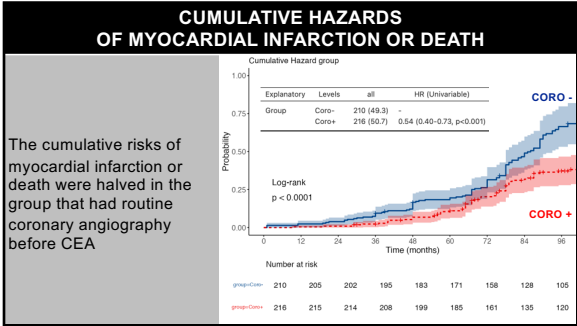
Independent variable: MI-free survival
Explanatory variables: Coronary angiography, diabetes, hypertension, age

INDICATION FOR CAROTID SURGERY				
INDICATION	ALL N= 426	CORO + N= 216	CORO- N= 210	p
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	.699
CEA + Patch	353 (83)	177 (82)	176 (84)	
CEA Eversion	73 (17)	39 (18)	34 (16)	
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





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.