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<u>Aggressive</u> detection and <u>Management of the Extension of atherothrombosis in high Risk</u> coronary patients In comparison with standard of Care for coronary <u>A</u>therosclerosis The AMERICA study

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Disclosures

- <u>Research grants</u> from Bristol-Myers Squibb, Sanofi-Aventis, Eli Lilly, Guerbet Medical, Medtronic, Boston Scientific, Cordis, Stago, Centocor, Fondation de France, INSERM, Federation Francaise de Cardiologie, and Société Française de Cardiologie;
- <u>Consulting fees</u> from Sanofi-Aventis, Eli Lilly, and Bristol-Myers Squibb; and lecture fees from Bristol-Myers Squibb, Sanofi-Aventis, and Eli Lilly.

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AMERICA: Study organization

ACTION Study Group (www.action-coeur.org)

- Academic Coordinating Center: Institute of Cardiology Pitié-Salpêtrière, Paris
- Academic Sponsor: AP-HP, Paris

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- Academic Global Trial Operations: URC Lariboisière, Paris
- **Funding**: ACTION, Institut de l'Athérothrombose
- Steering Committee: G. Montalescot, JP Collet, G. Cayla, E. Vicaut,

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– Investigation sites : 28 French Intervention Centers



AMERICA Study: Rationale (1)

- − Coronary artery disease → the most frequent and severe location of atherosclerosis
- Symptomatic multisite artery disease (MSAD) \rightarrow integrator of the global CV risk
- The prevalence and associated-risk of asymptomatic MSAD in high risk coronary patients are unknown.
- Whether systematic identification of MSAD and treatment when appropriate combined with an aggressive secondary prevention is relevant has not been evaluated.

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AMERICA Study: Rationale (2)

- To demonstrate the superiority of a pro-active strategy of detection and management of the extension of atherothrombosis to other territories than coronary combined with an aggressive pharmacological secondary prevention strategy in a population with very high risk features of coronary disease (pro-active strategy)
- As compared with a conservative strategy based on a clinically-guided identification of MSAD and standard pharmacological treatment (conventional strategy).

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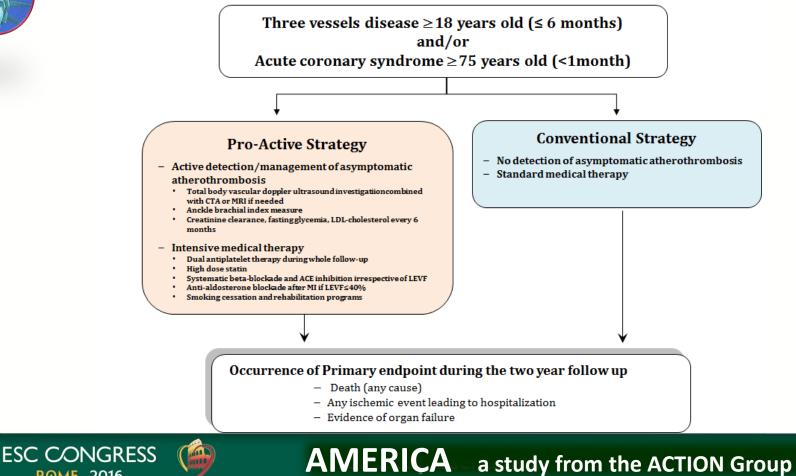
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Study Design







Baseline Characteristics	Pro-active group (n=263) Conventional group (n=258)	
ACS in elderly (%)	43%	40%
Age: mean (\rightarrow %>75)	77.7 (60%)	76.0 (58%)
Women	76 (28.9%)	67 (26.0%)
Current smoker	38 (14.4%)	35 (13.6%)
Hypertension	170 (64.6%)	180 (69.8%)
Diabetes	71 (27.0%)	63 (24.4%)
Dyslipidemia	147 (55.9%)	150 (58.1%)
Severe renal failure	9 (3.4%)	11 (4.3%)
Prior myocardial infarction	52 (19.8%)	62 (24.0%)
Prior PCI	54 (20.5%)	61 (23.6%)
Peripheral artery disease	22 (8.4%)	28 (10.9%)
Prior Stroke	20 (7.6%)	13 (5.0%)

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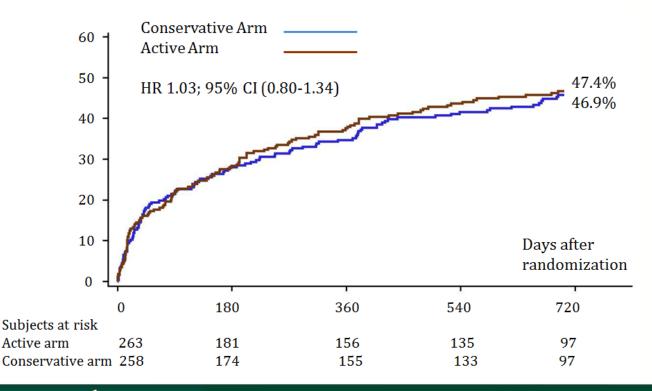
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Action



Primary Endpoint at 2 years-FU*

* death, any ischemic event leading to rehospitalization or any evidence of organ failure



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Key secondary outcomes	Pro-active Arm (n=263)	Conventional Arm (n=258)	Hazard Ratio (95% CI)	p-value
All-cause mortality	23 (8.7%)	28 (10.9%)	0.78 (0.45-1.35)	0.37
Myocardial infarction	36 (13.7%)	25 (9.7%)	1.39 (0.83-2.31)	0.21
Stroke	6 (2.3%)	5 (1.9%)	1.13 (0.35-3.72)	0.83
Critical Limb ischemia	6 (2.3%)	1 (0.4%)	5.73 (0.69-47.60)	0.11
AAA fissuration	1 (0.4%)	0 (0.0%)		
Revascularization	77 (29.3%)	56 (21.7%)	1.36 (0.96-1.91)	0.083
PCI	63 (24.0%)	50 (19.4%)	1.21 (0.84-1.76)	0.31
Coronary artery bypass graft	17 (6.5%)	8 (3.1%)	2.04 (0.88-4.73)	0.09
Organ failure	38 (14.4%)	37 (14.3%)	0.97 (0.62-1.53)	0.91



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Conclusions

- Asymptomatic MSAD is identified in one out of five high risk CAD patients
- AMERICA does not support the routine detection of asymptomatic MSAD even in high coronary risk patients as those recruited in the trial while aggressive secondary prevention strategy appears to be the standard of care already.

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