



ALBATROSS



Aldosterone **L**ethal effects **B**lockade in **A**cute myocardial infarction **T**reated with or
without **R**eperfusion to improve **O**utcome and **S**urvival at **S**ix months follow-up

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Belle, L. Belle, M. Galinier, P. Motreff, L. Cornillet, JP Collet, A. Furber, P.
Goldstein, P. Ecollan, D. Legallois, A. Lebon, H. Rousseau, J.
Machecourt, F. Zannad, E. Vicaut, G. Montalescot

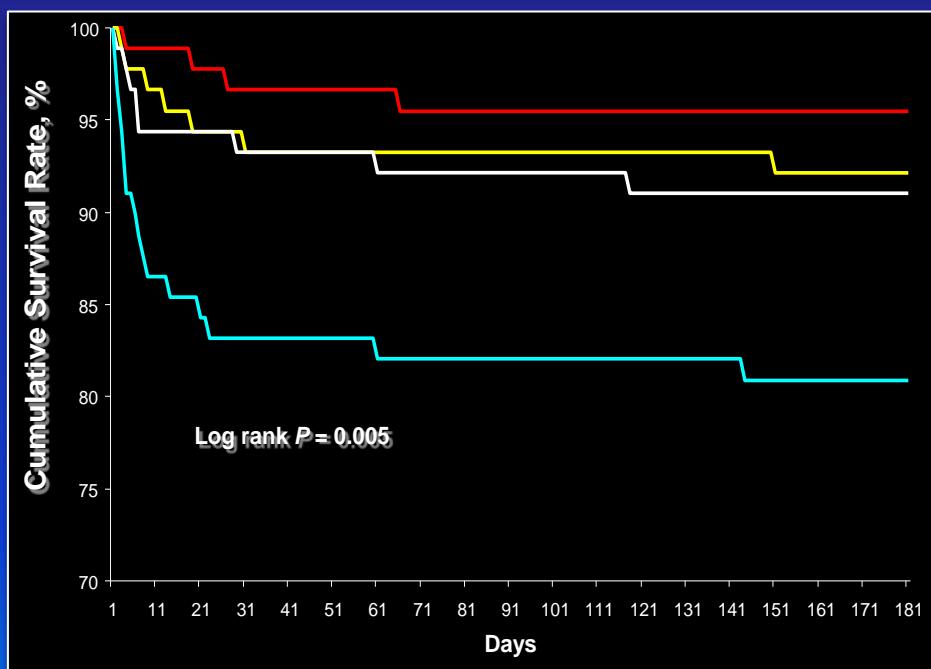
on behalf of the ALBATROSS investigators

COI DISCLOSURE FOR DR. MONTALESCOT: Research Grants to the Institution or Consulting/Lecture Fees from Abbott Vascular, Astra-Zeneca, Bayer, Biotronik, Boehringer-Ingelheim, Boston Scientific, Cleveland Clinic Foundation, Cardiovascular Research Foundation, Cordis, Daiichi-Sankyo, Duke institute, Eli-Lilly, Europa, Fédération Française de Cardiologie, Fondation de France, GSK, ICM, INSERM, Medtronic, Menarini, Nanospheres, Novartis, Pfizer, Sanofi-Aventis Group, Servier, Société Française de Cardiologie, The Medicines Company, TIMI group.

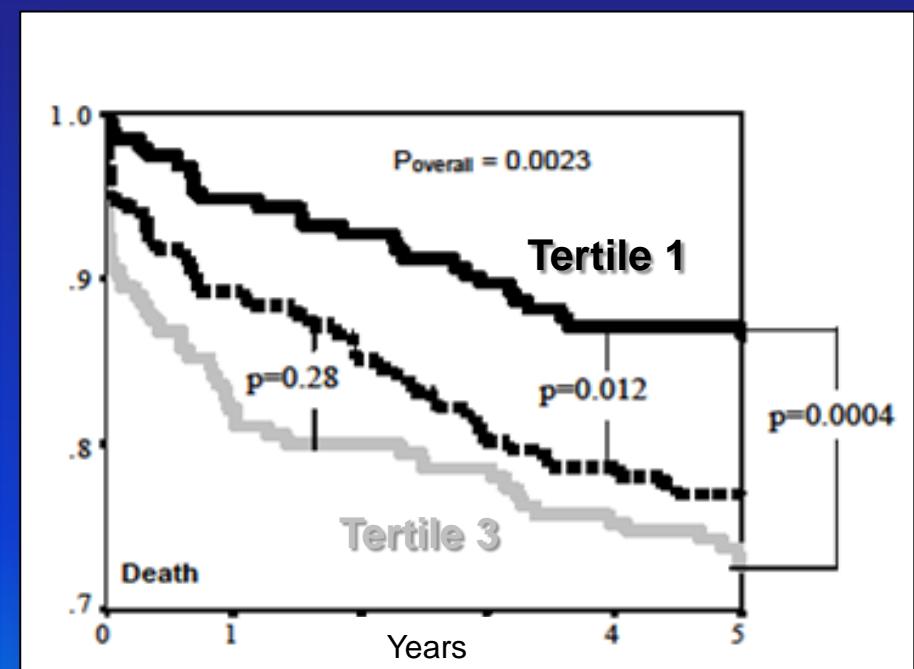


Aldosterone levels and death in AMI

Death according to quartiles
of aldosterone in STEMI



Death according to tertiles
of aldosterone in MI



Beygui F, et al. *Circulation* 2006; 114:2604-10

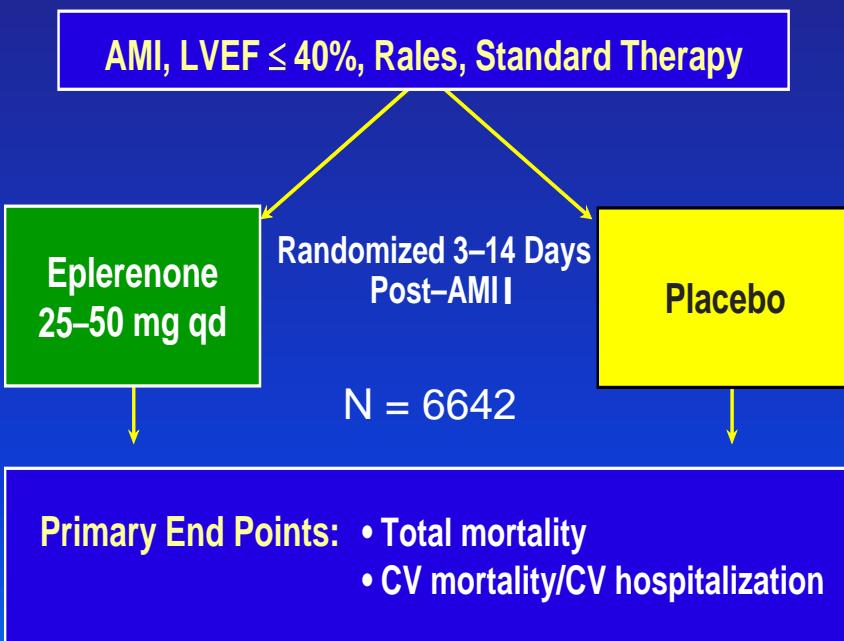
Palmer B, et al. *Eur Heart J*. 2008; 29:2489-96



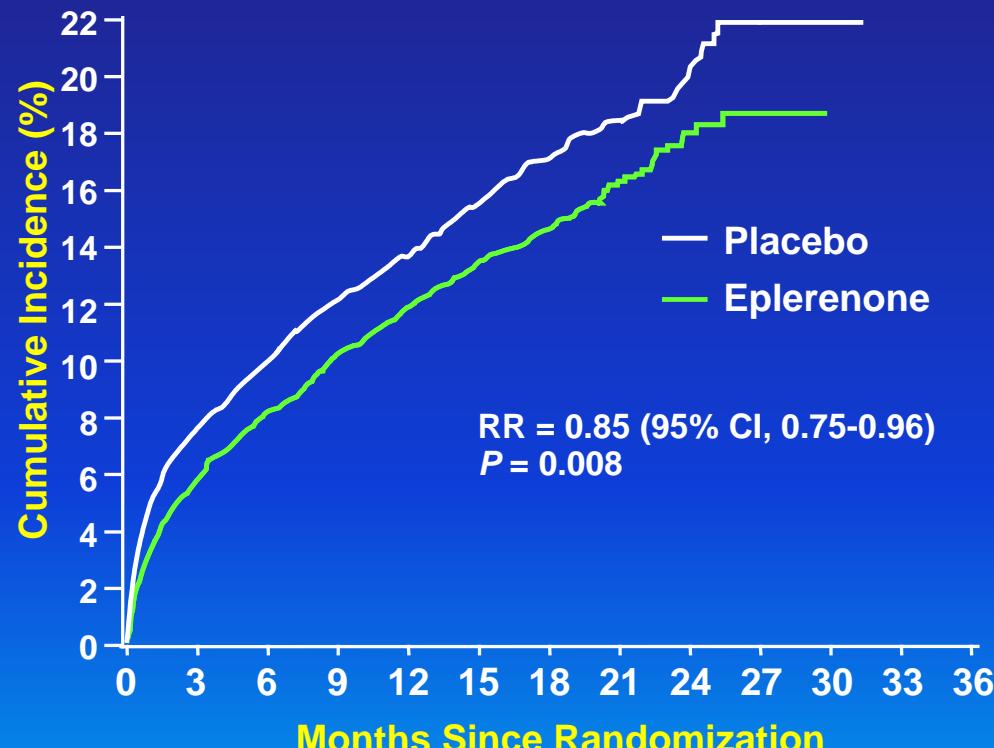
EPHESUS : Post-MI heart failure



Design

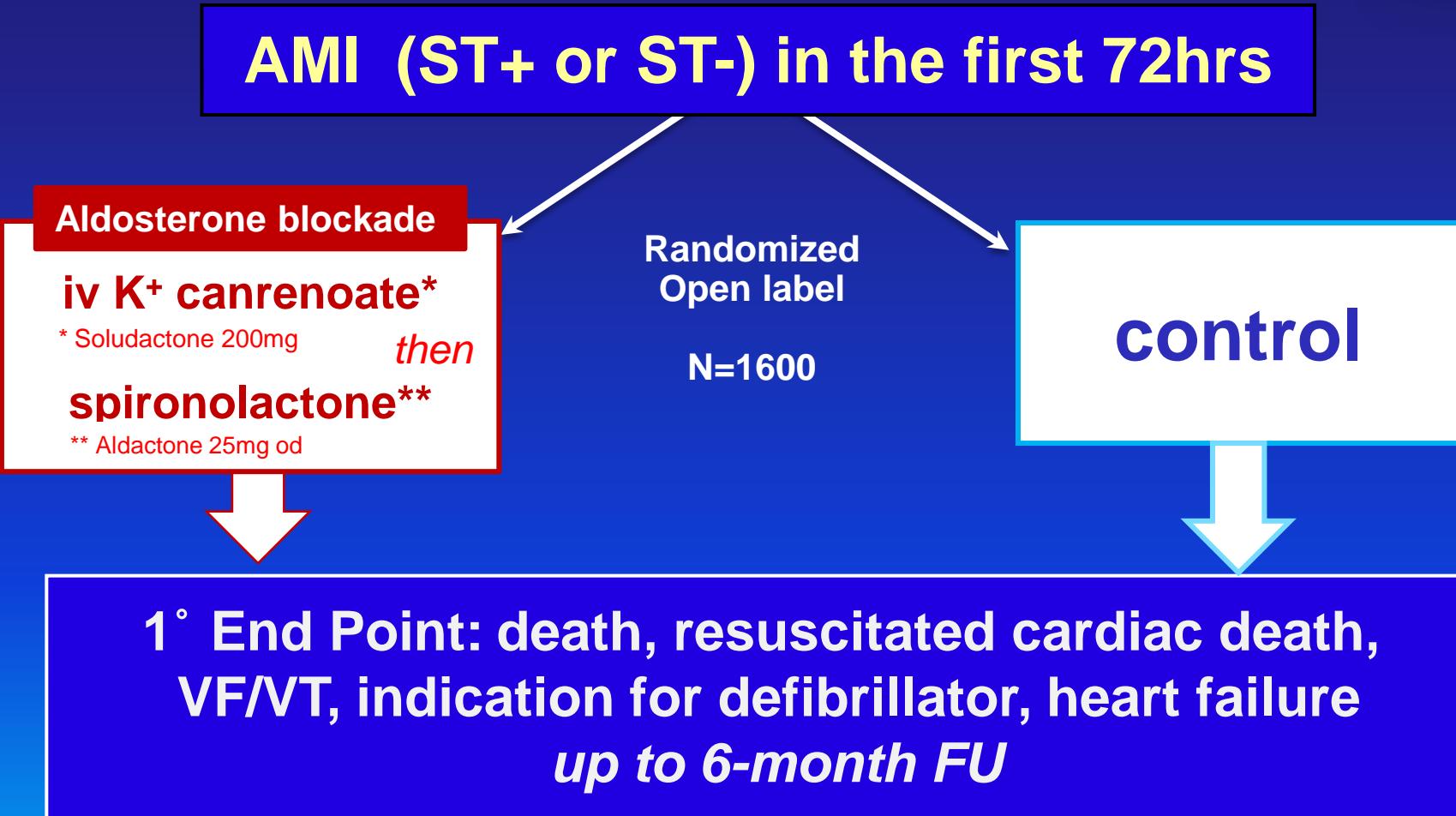


Mortality





ALBATROSS study design





Baseline characteristics

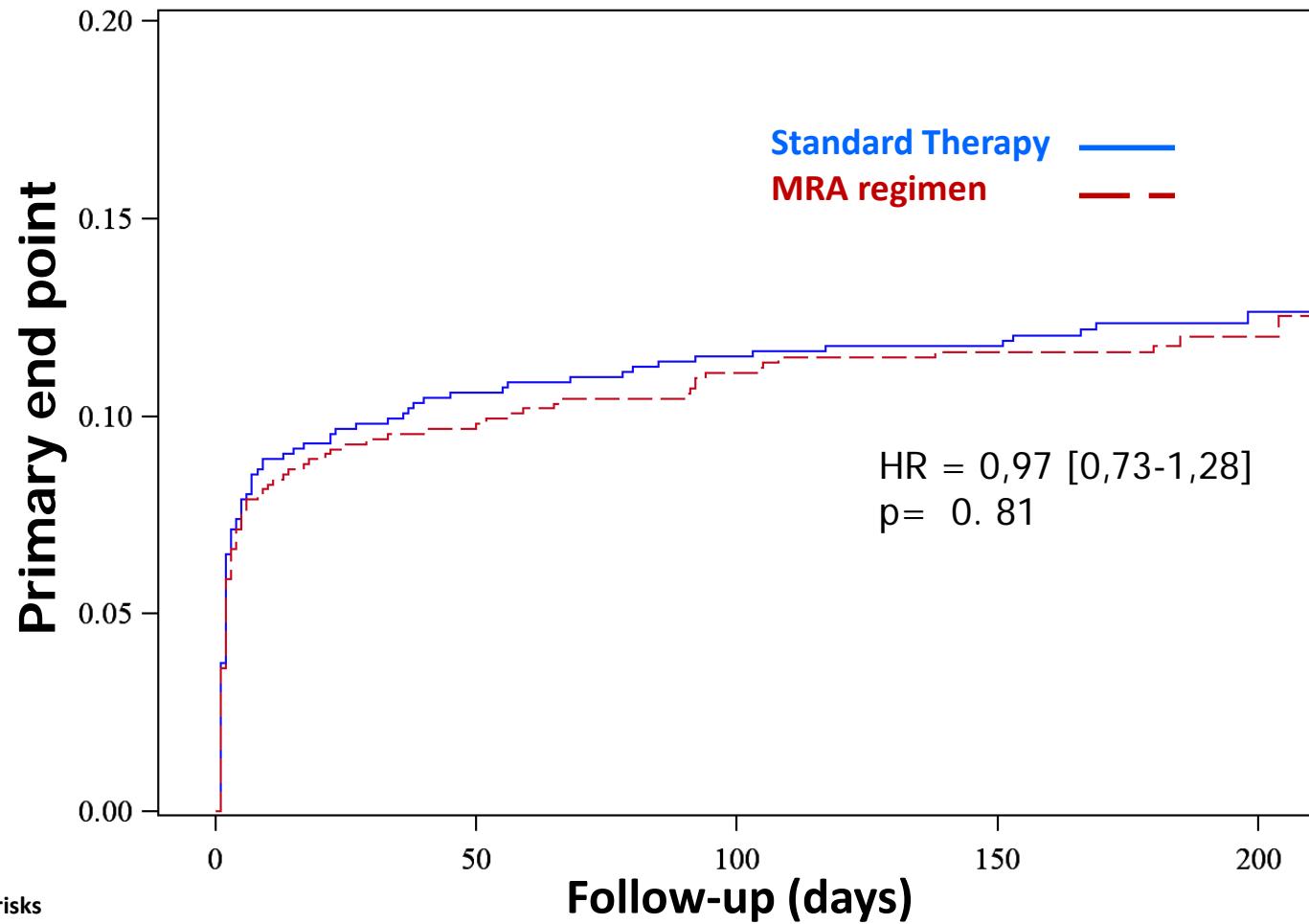


	Standard treatment (N=801)	MRA regimen (N=802)
Age (median)	58	58
Current smoking (%)	52	47
Diabetes (%)	16	16
Hypertension (%)	44	42
Dyslipidemia (%)	46	47
Prior MI (%)	9	8
Prior HF (%)	1	1
STEMI (n)	617	612
NSTEMI (n)	183	186
Killip I (%)	91	93
PCI (%)	81	82
LV ejection fraction (median in %)	50	50



Primary End Point

Death, resuscitated death, VF/VT, indication for ICD or heart failure



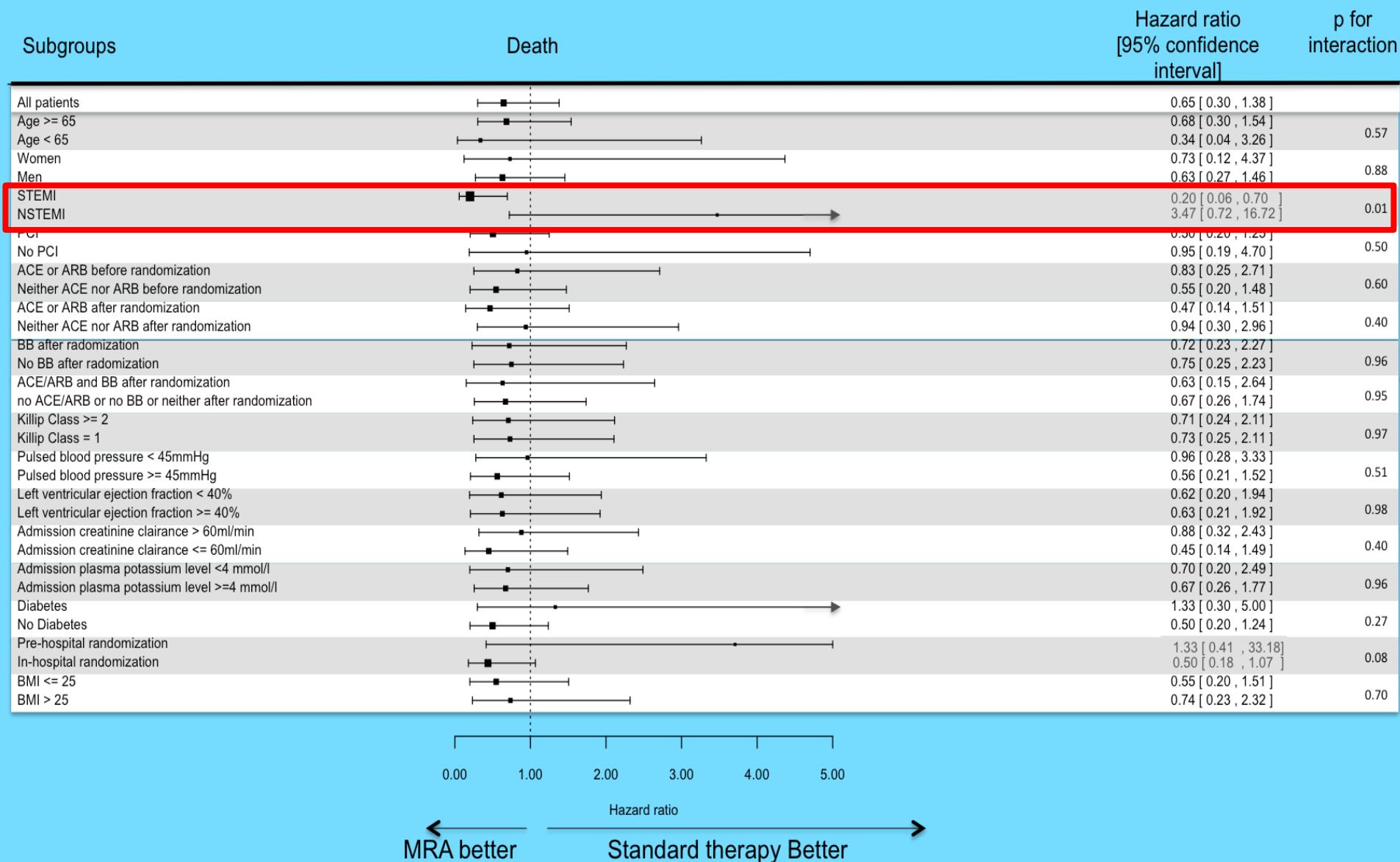


Secondary End Points

	Standard therapy (n=801)	MRA regimen (n=802)	P value
Significant ventricular arrhythmia (%)	6	5.6	0.75
New or worsening heart failure (%)	5.6	5.9	0.85
Recurrent myocardial infarction (%)	1	0.6	0.39
Death or resuscitated cardiac arrest (%)	2.4	1.6	0.28
Hyperkalemia > 5.5mmol.L⁻¹ (%)	0.2	3	<0.0001

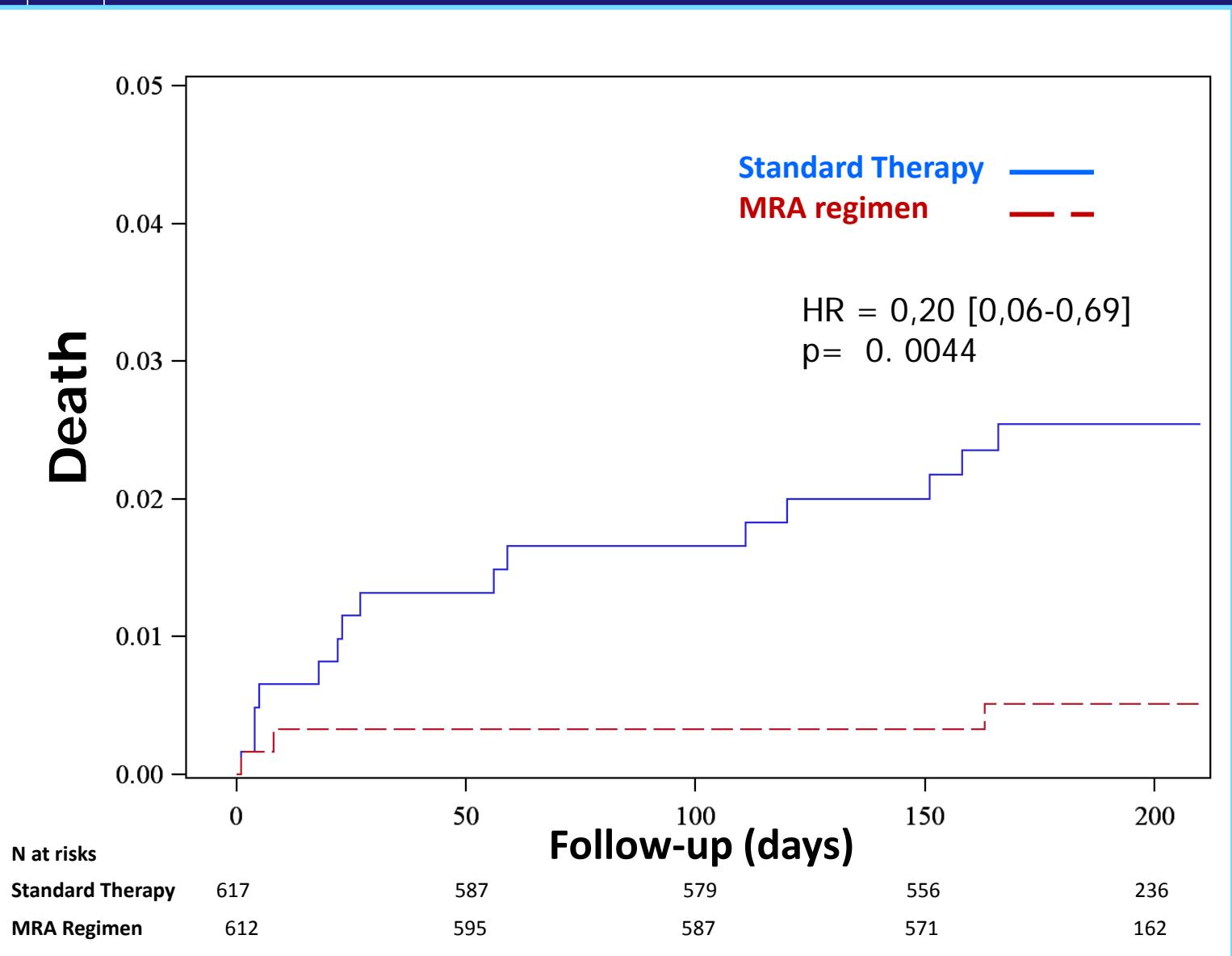


Death in pre-specified subgroups





Death in STEMI patients (n=1229)





1. Despite a strong pre-clinical rationale and favorable clinical data from registries and small randomized studies, the ALBATROSS trial failed to show a benefit of aldosterone blockade initiated early in MI, when heart failure is in general not present
2. The ALBATROSS study highlights the relative safety of the aldosterone blockade used in the study
3. Our finding of a mortality reduction associated with early aldosterone blockade in STEMI patients needs confirmation in future studies specifically dedicated to these patients
4. Meanwhile, the results of the ALBATROSS study do not warrant the extension of aldosterone blockade to MI patients without heart failure.