

12-Month Clinical Outcomes

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on behalf of the REDUCE trial investigators







Background

- Short-term DAPT reduces bleeding rates, without increasing thrombotic complications (1-2). Therefore, recent guidelines recommend 6-12 months DAPT for patients with stable angina treated with new generation DES (3)
- The optimal duration of DAPT in ACS patients treated with DES is still unclear, especially in the era of new anticoagulants/antiplatelet agents
- The COMBO Dual Therapy Stent, which combines abluminal release of sirolimus (to prevent neointima formation) and capture of endothelial progenitor cells (to enhance stent re-endothelialization) (4) may be attractive in the context of ACS





^{1.} Navarese et al. BMJ 2015:350:h1618

^{2.} Palmerini et al. Lancet 2015; 385: 2371-82

^{3.} Windecker et.al. Eurintervention 2015;10:1024-9

^{4.} Granada et al. Circ Cardiovasc Interv 2010;3:257-266



Methods

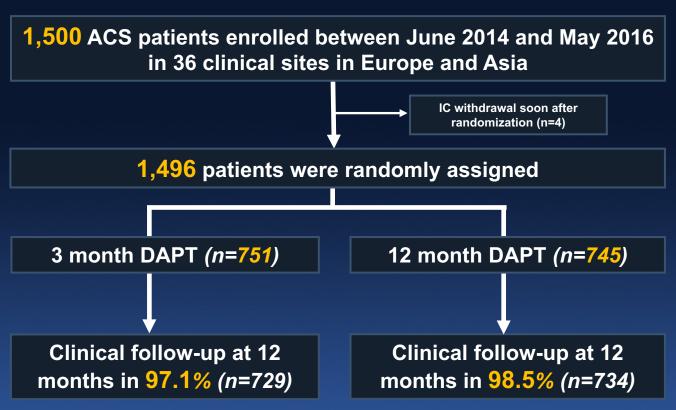
- Design: Investigator-initiated prospective, multicenter, randomized study with two randomization groups (3 versus 12 months DAPT) (NCT02118870)
- Objective: To evaluate the non-inferiority of a combined safety and efficacy endpoint of a short-term 3 months DAPT, compared to standard 12-month DAPT strategy, in ACS patients treated with the COMBO stent
- Primary Endpoint:
 Composite of all cause death, MI, ST, stroke, TVR or bleeding (BARC II, III, V)
- Secondary Endpoints:
 - Pre-specified Landmark analysis of Primary Endpoint from 3 to 12 month
 - Individual components of the composite endpoint







Results: Flow Chart

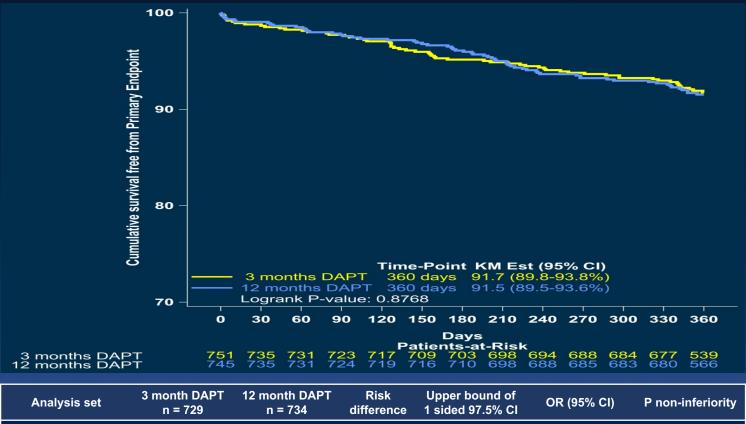








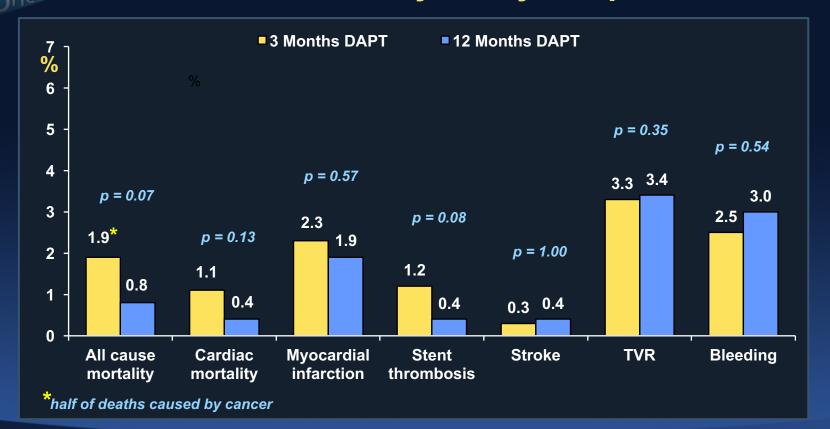
Results: Primary Study Endpoint



Analysis set	3 month DAPT n = 729	12 month DAPT n = 734	Risk difference	Upper bound of 1 sided 97.5% CI	OR (95% CI)	P non-inferiority
Intention to treat	8.2	8.4	-0.002	0.027	0.97 (0.67-1.41)	<0.001



Results: Secondary Study Endpoints

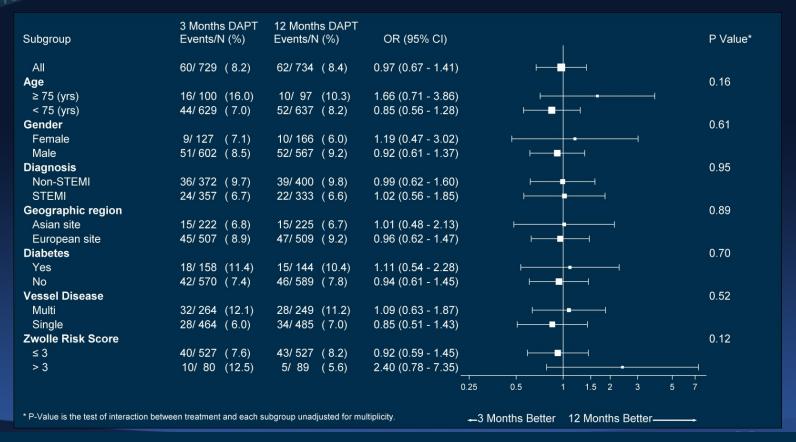








Results: Subgroup Analysis



Consistent results across all subgroups, without any significant statistical interaction



Conclusion

- The REDUCE trial is the first study restricted to ACS patients, comparing a short 3-month vs a standard 12-month DAPT
- The main finding of the present study is that, among ACS patients treated with the COMBO stent, 3-month DAPT is not inferior to 12-month DAPT
- This finding is consistent for all pre-specified subgroups
- Therefore, a shorter DAPT strategy could be considered, if necessary, even in ACS population
- Future large trials are needed to further investigate and confirm the safety of short-term DAPT regimen in ACS patients in the era of new ADP antagonists and new generation DES



