

MDP477. The Effects Of Anacetrapib Therapy On Occlusive Vascular Events During Post-Trial Follow-Up of the REVEAL Randomized Trial

Presented on behalf of the REVEAL Collaborative Group

Financial Disclosures

- Trial funded by Merck & Co. Inc, British Heart Foundation, Medical Research Council. Additional support from Health Data Research UK and the National Institute of Health Research Oxford Biomedical Research Centre.
- Designed, conducted and analyzed independently of the funders
- University of Oxford is the trial sponsor

Background

- In statin trials there is a lag to onset of benefit and a persistence of effect for several years beyond the end of treatment
- Anacetrapib is a potent inhibitor of Cholesteryl Ester Transfer Protein (CETP) which doubles HDL-cholesterol and lowers LDL-cholesterol
- Anacetrapib accumulates in adipose tissue during prolonged dosing
- Therefore additional follow-up of REVEAL trial participants was planned

REVEAL Trial Design

Eligibility: 30,449 patients aged over 50 years with occlusive vascular disease

Background statin: Atorvastatin 20 or 80 mg daily (China: 10 or 20 mg)

Randomized: Anacetrapib 100 mg daily vs. matching placebo

In-Trial Follow-Up: median 4.1 years

Post-Trial Follow-Up: median 2.3 years off study treatment, biannual telephone interview/medical record review

Primary outcome: Major Coronary Event

(i.e. Coronary death, myocardial infarction, or coronary revascularization)

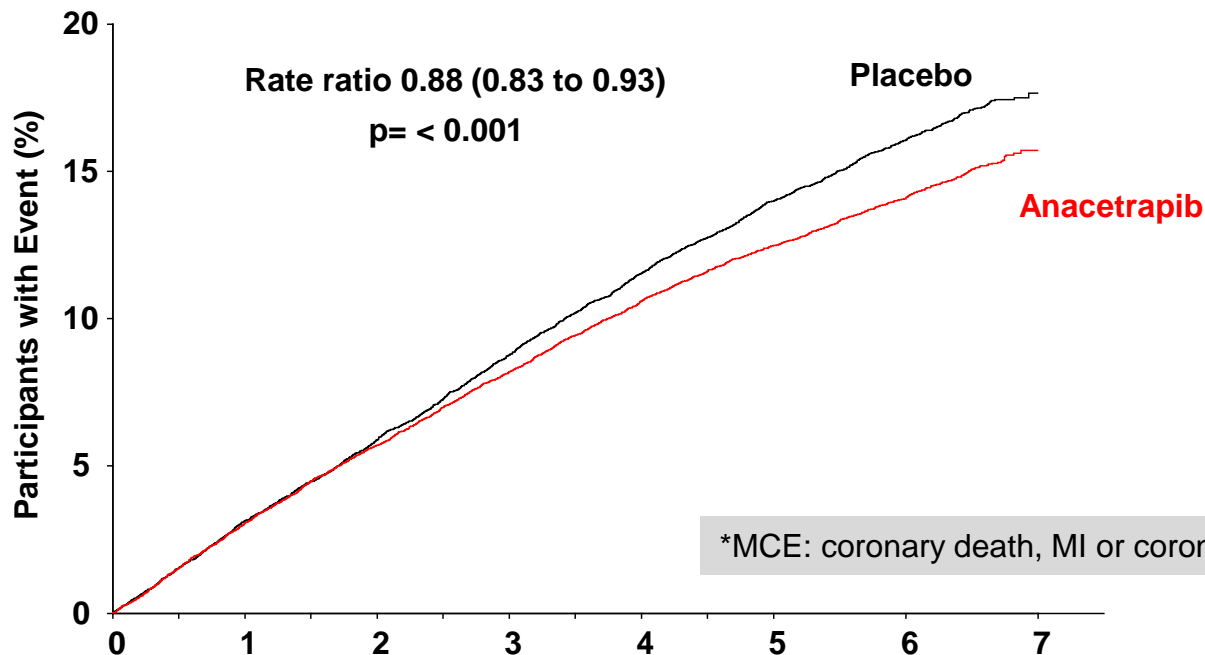
HPS 3/TIMI 55-REVEAL Collaborative Group. Am Heart J 2017;187:182-90

The HPS3/TIMI55-REVEAL Collaborative Group. N Engl J Med 2017; 377:1217-1227

Baseline Characteristics

Characteristic		Total
		(N = 30,449)
Age (years)	Mean	67
Gender	Male	25,534 (84%)
Region	Europe	15,738 (52%)
	North America	6082 (20%)
	China	8629 (28%)
Prior Disease	Coronary heart disease	26,679 (88%)
	Cerebrovascular disease	6781 (22%)
	Peripheral arterial disease	2435 (8%)
	Diabetes mellitus	11,320 (37%)

Primary Endpoint: Major Coronary Event*

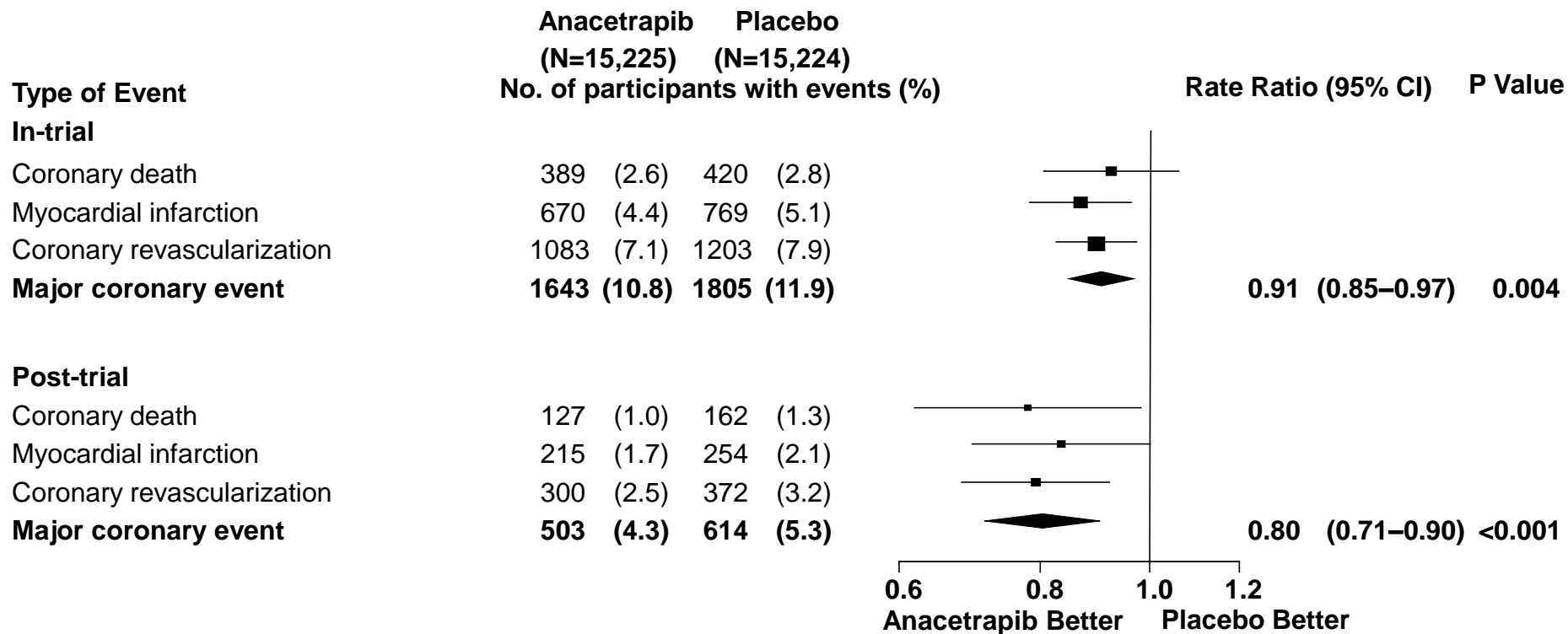


No. at Risk

	Years of Follow-up							
	0	1	2	3	4	5	6	7
Placebo	15,224	14,649	14,088	13,451	12,616	11,173	9124	276
Anacetrapib	15,225	14,656	14,104	13,531	12,708	11,389	9389	289
Benefit		1±2	2±3	6±3	9±4	15±4	20±4	19±5

Per 1000 participants
in anacetrapib group

Components of Primary Endpoint by Trial Period



Effect on Recurrent Major Coronary Events

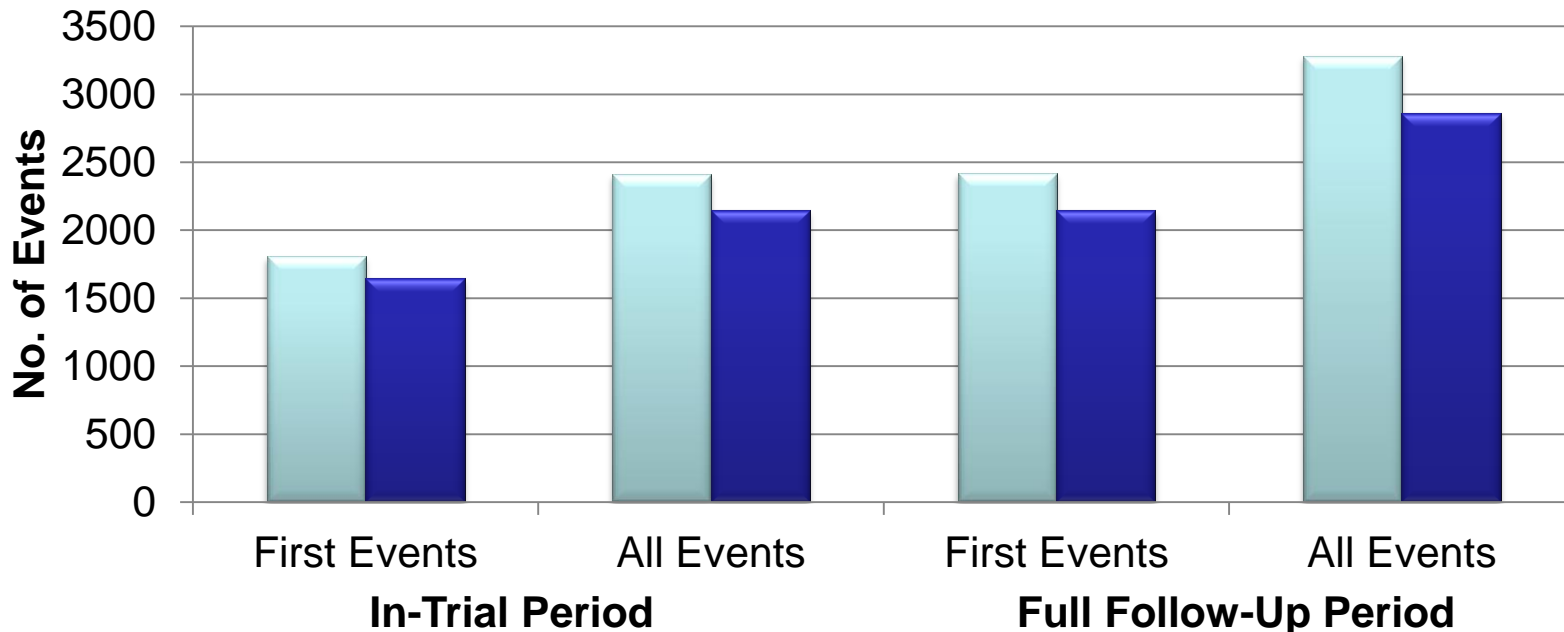
Events prevented per
1000 pts treated for
4 years (SE)

-10.6
(3.6)

-17.5
(4.1)

-17.9
(4.1)

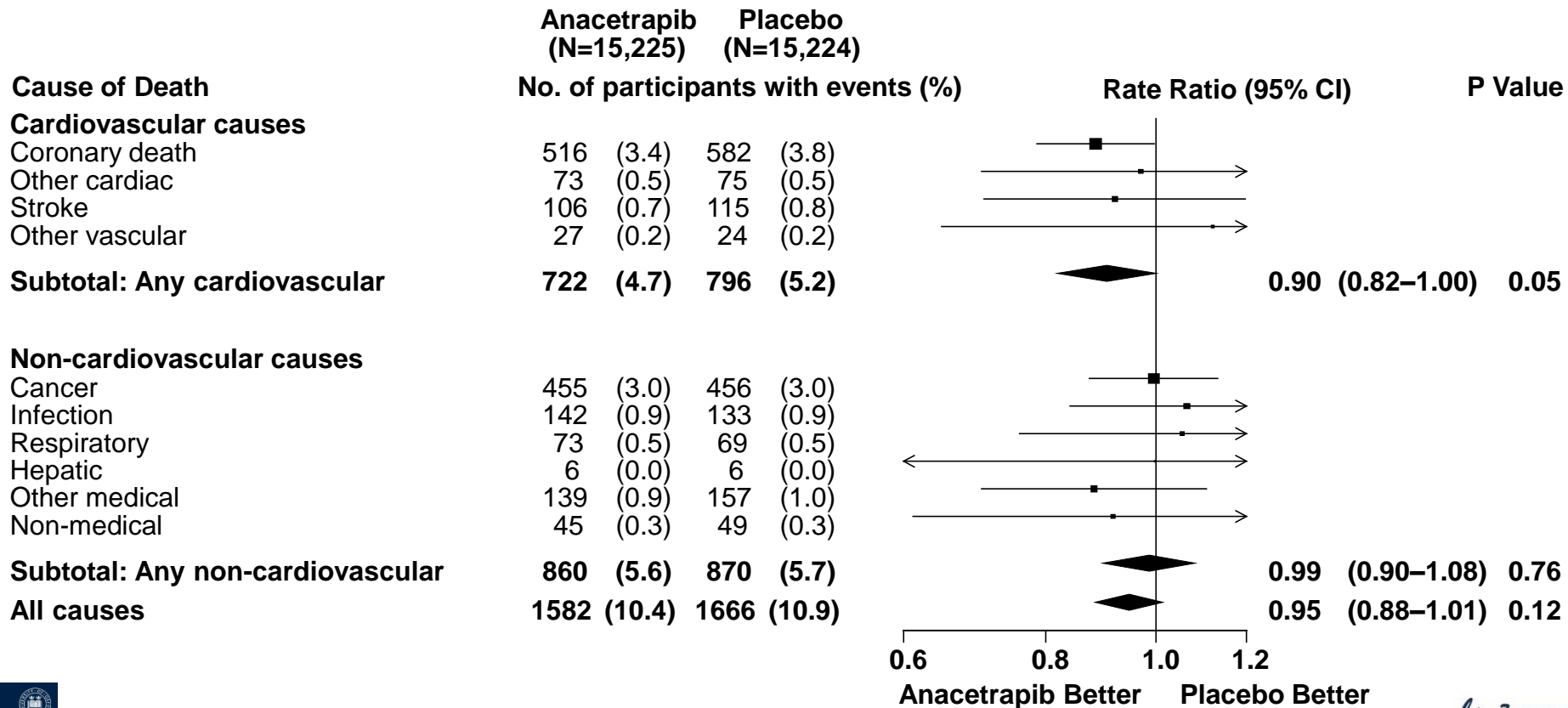
-27.5
(4.6)



■ Placebo ■ Anacetrapib

Effect on Mortality

(Overall and by Cause: Full Follow-Up Period)



Conclusion

- Between-group differences in the risk of coronary death emerged in later years of follow-up that were not seen in-trial
- Absolute reduction in MCE at 6 years was nearly double that seen at the end of the 4 year treatment period.
- No safety concerns emerged for non-vascular mortality or morbidity
- Results reinforce importance of post-trial follow-up in lipid-modifying trials to evaluate the efficacy and safety