

## Debate: The Optimal Duration of DAPT

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### DAPT Trial

**Major Adverse Cardiovascular and Cerebrovascular Events**  
 12-30 mo Thienopyridine vs. placebo, 4.3% vs. 5.9%; hazard ratio, 0.71; P<0.001  
 12-33 mo Thienopyridine vs. placebo, 5.6% vs. 6.5%; hazard ratio, 0.82; P=0.02

Primary Endpoint: Death, MI, stroke  
4.3%, 5.9%  
RRR 29%  
p<0.001

No. at Risk	0	12	15	18	21	24	27	30	33
Thienopyridine	5020	4917	4840	4778	4702	4611	4554	4509	4476
Placebo	4941	4799	4715	4635	4542	4476	4412	4367	4322

N Engl J Med 2014;371:2155-66

### DAPT Trial

- Requested by FDA
- DES, had not had an event (MI, stroke, revascularization, bleed) and were adherent at 12 months, non-high risk stent diameter, not on warfarin
- Clopidogrel 75 mg (65%) or prasugrel 10 mg (35%) + ASA 75 – 162 mg versus ASA 75 – 162 mg for up to 18 months more
- Efficacy Endpoints – stent thrombosis, CV death/MI/stroke
- Safety Endpoints - Moderate or severe GUSTO bleed
- 9961 were randomized

NEJM 2014;371:2155

### DAPT Trial

**Stent Thrombosis**  
 12-30 mo Thienopyridine vs. placebo, 0.4% vs. 1.4%; hazard ratio, 0.29; P<0.001  
 12-33 mo Thienopyridine vs. placebo, 0.7% vs. 1.4%; hazard ratio, 0.45; P<0.001

No. at Risk	0	12	15	18	21	24	27	30	33
Thienopyridine	5020	4934	4870	4828	4765	4686	4642	4610	4578
Placebo	4941	4845	4775	4721	4651	4603	4556	4515	4474

**Figure 2.** Cumulative Incidence of Stent Thrombosis, According to Study Group.

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### DAPT Trial

**Population**

- 62 y.o. 75% male
- Prior PCI 30%, prior CABG 12%, prior MI 22%
- Non-ACS in 60%
- Type of DES:
  - Sirolimus (Cypher) 11%,
  - Paclitaxel (TAXUS) 27%
  - Zotarolimus (Endeavor) 12%
  - Everolimus (Xience, PROMUS) 47%

NEJM 2014;371:2155

### Pegasus – TIMI 54

- MI 1 – 3 years before enrollment (median 1.7 years)
- 80% underwent PCI
- 50 years of age + 1 risk factor (age > 65, DM, prior MI, multivessel CAD, CrCl < 60 mL/min)
- Excluded: need for anticoagulation, history of bleeding disorder, ischemic stroke, intracranial hemorrhage, GI bleeding in past 6 months, surgery within past 30 days were excluded
- Ticagrelor 90 mg BID, 60 mg BID, or placebo + ASA 75 – 150 mg, median for 33 months
- Efficacy: CV death, MI or stroke
- TIMI major bleeding
- N=21,162

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