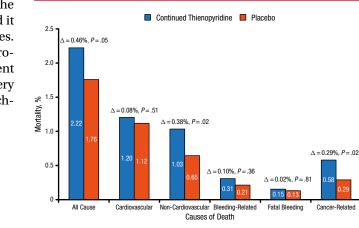




death among high-risk patients with previous MI when



Figure 1. Mortality by Cause



<sup>12-33</sup> months; n = 11648 randomized. Reproduced with permission from L Mauri, MD.

frequent during the 12- to 30-month period (0.9% vs 0.5%; HR, 1.94; 95% CI, 1.20 to 3.15; P=.01), whereas CV death was numerically more frequent during the 30- to 33-month period, as thienopyridine treatment was discontinued (0.3% vs 0.1%; HR, 2.39; 95% CI, 0.84 to 6.77; P=.09).

For the entire 12- to 33-month period, non-CV deaths and cancer-related deaths were significantly higher in the continued thienopyridine group compared with the placebo group, and the rate of bleeding-related deaths was very low and did not differ significantly between the groups (Figure 1). However, there was no difference in new cancer incidence after randomization. Most of these cancer-related deaths were solid tumors typical of such a population, rather than a particular location or cell type, and cancer deaths were rarely related to bleeding. Although life expectancy of less than 3 years was an exclusion criterion of the study, patients with cancer were allowed to be enrolled. These findings suggest that caution is warranted in choosing whether to continue longterm dual antiplatelet therapy in subjects with advanced cancer. There have been no observed increases in mortality [Elmariah S et al. Lancet. 2015] or cancer-related death [Hicks BM et al. Pharmacoepidemiol Drug Saf. 2015; Unger EF. N Engl J Med. 2009; Roe MT et al. N Engl J Med. 2012] across prior large randomized trials of thienopyridine therapy with extended follow-up.

Dr Mauri cautioned that there were several limitations to the study, including low event rates and the retrospective adjudication of cancer diagnosis. She concluded that dual antiplatelet therapy beyond 12 months after coronary stenting should be considered for the prevention of MI, but risks of continued dual antiplatelet therapy should be considered carefully.

compared with aspirin therapy alone. It also increased the risk of major bleeding but not fatal bleeding or ICH, and it did not increase the risk of death due to non-CV causes. However, he cautioned that prolonged DAPT is not appropriate for patients with anticoagulation issues, recent bleeding events or surgery, or history of ICH and that very few patients studied had prior stroke or a transient ischemic attack.

## DAPT Study: Bleeding Increased but No Difference in Bleeding-Related Mortality

Written by Alla Zarifyan

Prolonged dual antiplatelet therapy beyond 1 year was associated with increased mortality in the DAPT study, but whether this was related to the increased bleeding rates seen in the study was unknown [Mauri L et al. *N Engl J Med.* 2014]. A new analysis has revealed that cancer-related death accounted for the majority of the difference in mortality, and this appeared to be related to an imbalance in advanced cancers enrolled as there was no difference in cancer incidence, according to Laura Mauri, MD, Brigham and Women's Hospital, Boston, Massachusetts, USA.

The DAPT Study found that dual antiplatelet therapy with a thienopyridine plus aspirin beyond 1 year after coronary stenting, vs aspirin alone, reduced ischemic complications, but increased moderate or severe bleeding in patients treated with drug-eluting stents. The rates of major adverse cardiovascular and cerebrovascular events (MACCE; a composite of death, myocardial infarction [MI], and stroke) and MI were significantly lower in the continued thienopyridine group (n=5020) compared with the placebo group (n=4941), at 4.3% vs 5.9%, and 2.1% vs 4.1%, respectively (both P < .001); but the rate of all-cause death was higher in the continued thienopyridine group (2.0% vs 1.5%; P = .05).

The objective of the present analysis was to adjudicate and analyze deaths following randomization for all subjects (treated with either drug-eluting or bare metal stents), with particular focus on bleeding- and cancer-related outcomes. A total of 11648 patients were randomized (5862 to continued thienopyridine vs 5786 to placebo).

There was a trend toward increased all-cause mortality for the 12- to 30-month period at 1.9% in the continued thienopyridine group vs 1.5% in the placebo group (HR, 1.31; 95% CI, 0.97 to 1.75; P=.07). It reached statistical significance for the 12- to 33-month period at 2.2% vs 1.8% (HR, 1.32; 95% CI, 1.00 to 1.73; P=.05). In the continued thienopyridine group, non-cardiovascular (CV) death was more

19