

Efficacy of Sirolimus-Eluting Stents Compared With Paclitaxel-Eluting Stents in an Unselected Population With Coronary Artery Disease: 24-Month Outcomes of Patients in a Prospective Non-randomized Registry in Southern Turkey

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Abstract :

Background: The efficacy of drug-eluting stents has been shown in randomized trials, but some controversy exists regarding which stent sirolimus-eluting or paclitaxel-eluting is more effective in unselected Turkish patients. Therefore, we investigated the clinical outcomes of patients who were treated with one type of these drug-eluting stents in the real world.

Methods: We created a registry and prospectively analyzed data on a consecutive series of all patients who presented to our institution with symptomatic coronary artery disease between February 2005 and March 2007 and who were treated with the sirolimus- or the paclitaxel-eluting stent. The follow-up period after stent implantation was approximately 24 months. The primary end point was a major cardiac event, and the secondary end point was stent thrombosis. Informed consent was obtained from all subjects, and the study protocol was approved by the local ethical committee.

Results: In total, 204 patients were treated with either the sirolimus-eluting stent (n = 103) or the paclitaxel-eluting stent (n = 101). The lesions in the 2 arms of the study were treated similarly by conventional technique. At 24-month follow-up, patients who received the paclitaxel-eluting stent showed significantly higher rates of non-Q-wave myocardial infarction (1.9% vs 5.9%; *P*: .002), target vessel revascularization (1.9% vs 4.9%; *P*: .002), coronary artery bypass graft surgery (1.9% vs 6.9%; *P*: .001), and late stent thrombosis (1.9% vs 3.9%, *P*: .002).

Conclusions: Patients who received the sirolimus-eluting stent showed better clinical outcomes compared with those who had the paclitaxel-eluting-stent.

Key Word :

coronary artery disease, drug-eluting stent, major adverse cardiac event, stent thrombosis.

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