10067

Impact of Percutaneous Coronary Intervention for Chronic Total Occlusion Patients with Near-normal Left Ventricular Function

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Background: There are very limited data regarding the benefit of percutaneous coronary intervention (PCI) for chronic total occlusion (CTO) patients (pts) with near-normal left ventricular (LV) function. Methods: A total of 194 consecutive CTO patients with normal or near-normal LV function (EF>50%) underwent PCI or optimal medical therapy (OMT) were enrolled. The patients were divided into two groups; 1) the OMT group (n=86) and 2) the PCI group (n=108). To adjust for potential confounders, analysis was performed using the logistic regression model. Results: Baseline clinical characteristics were similar between the two groups, Major clinical outcomes up to 5 years were significant different; Total major adverse cardiac events (MACE 30.2% vs. 13.9%, p=0.012), total death (11.6% vs. 1.9%, p=0.009), cardiac death or MI (16.3% vs. 13.9%, p=0.012) (Table). Conclusions: In this study, PCI for a CTO patients even with normal or near-normal LVEF has a beneficial effect in reducing the incidence of individual and composite MACE up to 5 years.

| Variables, % | OMT (n=86) | PCI (n=108) | p-Value |
|----------------------------|---------------|----------------|---------|
| Total death | 11.6% | 1.9 % | 0.009 |
| Cardiac death or MI | 16.3% | 2.8% | 0.020 |
| Stroke | 2.3 % | 1.9 % | 0.848 |
| Revascularization | 20.9 % | 13.0 % | 0.163 |
| Target lesion (CTO vessel) | 9.1 % | 8.3 % | 0.919 |
| Target vessel (CTO vessel) | 9.1 % | 8.3 % | 0.919 |
| Total MACE | 30.2% | 13.9% | 0.012 |