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Usefulness of A Collateral Channel Dilator for Antegrade Treatment of Chronic Total Occlusion of a Coronary Artery

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**Objectives:** The aim of this study was to clarify the effectiveness of a collateral channel dilator microcatheter in antegrade percutaneous coronary intervention (PCI) for chronic total occlusion (CTO) of a coronary artery. Background: The Corsair microcatheter, which was originally developed as a collateral channel dilator, has been reported to be useful for retrograde CTO-PCI. **Methods**: We compared the success rate of the Corsair microcatheter collateral channel dilator for antegrade CTO-PCI with a previously available microcatheter. We analyzed the data from 27 patients (32 CTOs) using the FinecrossMG (Finecross group) and the data from 31 patients (34 CTOs) using the Corsair (Corsair group). **Results**: There were no significant differences in the clinical or lesion characteristics between the two groups. The success rate for crossing the CTO by the microcatheter was 62.5% in the Finecross group and 85.3% in the Corsair group (P < 0.05). After the Corsair crossed the CTO, a 2-mm diameter balloon catheter crossed the lesion in all the cases, but it crossed the lesion in only 17 of 20 cases in the Corsair group compared with the Finecross group (P < 0.05). **Conclusions**: The success rate for crossing of the microcatheters and the balloon catheters through the occlusion in antegrade CTO-PCI was better with the Corsair than with the FinecrossMG. In addition, the use of the Corsair reduced the number of balloon catheters used for predilation in antegrade CTO-PCI.