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Usuful Bifurcation Guidewire Technique: Reverse Wire Technique

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Background: Reverse wire technique is sometimes used at wire insertion into an extremely angulated side branch. We report a case successfully treated with this technique When a guide wire did not pass the angulated bifurcation lesion by usual technique. **Case report**: 64-year-old Male complained of a chest oppression at effort from few days ago. CAG revealed the 90% stenosis of mid LAD. The diagnal branch bifurcated at about angle of 90 degree from the just distal of the stenotic lesion. We performed PCI. First, we passed the guide wire through the stenotic lesion to distal LAD. Second, we tried passing the guide wire to the side branch to prepare for side branch occlusion. It was very difficult to cross the guide wire to the side branch because of extreme angulation. We tried the reverse wire technique. First we advanced the guide wire into the distal LAD, and then the reverse wire system also into distal LAD with Crusade through the bifurcation part. Then, we pulled back the reverse wire wire wire gradually advanced through the diagnal branch. We slowly pulled backed the reverse wire more, the wire gradually advanced through the diagnal branch. Then, we directly implanted a biolimus-eluting stent at the mid LAD. Final CAG revealed optimal results. Side branch occlusion did not occur. **Conclusion**: When a guide wire can not pass the angulated bifurcation lesion by usual technique, this reverse wire technique may be useful. This technique will also save time for guide wire insertion.