

3-D CT-angiography of the collateral vessels to assess the feasibility of TCA

[Purpose]EVT for PAD is sometimes difficult to perform, especially for CTO lesions. Nowadays TCA(Trans Collateral Angioplasty) technique is widely spread and contributes greatly to the increased success rate of CTO revascularizations, but it is not always easy to identify the employable collateral vessels for TCA. Recently we perform CT-scan before EVT of the complex CTO cases and attempt to create 3-D images of the collateral vessels, that give us the information about a chance of TCA procedure. [Methods] We submit a SFA-Pop.A CTO case in which CT-angiography revealed a promising route for TCA and contributed to the successful revascularization. [Result] Lt. femoral arterial access was obtained for ipsi-lateral antegrade approach. Initial attempt to pass the CTO route antegradely was unsuccessful and then followed by TCA. The collateral vessel had the same anatomical aspect as CT-angiography and TCA was performed successfully in a short time. [Conclusion]3-D CT-angiography of the collateral vessels will contribute to the pre-procedural assessment of the feasibility of TCA.

