

P-06 Initial experience of Esprit BTK implantation evaluated by multimodality imaging: Insights from angioscopy, optical frequency domain imaging and intravascular ultrasound

Hironori Takami, Takuya Haraguchi

Department of Cardiology, Sapporo Heart Center, Sapporo, Japan

An 80-year-old male presenting with Rutherford class 4 ischemia was referred to us. His ankle-brachial index (ABI) was 0.81 and angiography revealed focal severe superficial femoral artery (SFA) stenosis and tandem severe posterior tibial artery (PTA) stenoses. The SFA was treated using a SELUTION (5.0 x 60 mm), and the PTA was pre-dilated using a SHIDEN-HP (2.5 x 20 mm), followed by implantation of two Esprit BTK (2.5 x 28 mm) and post-dilatation with the same balloon. Post-procedural multimodality imaging demonstrated excellent results: angioscopy captured a rare, vivid image of the "fish-bone" structure; optical frequency domain imaging (OFDI) confirmed optimal expansion and apposition; 60-MHz intravascular ultrasound (IVUS), despite its lower spatial resolution compared to OFDI, provided acceptable quality to verify adequate expansion and apposition; and final angiography confirmed the absence of flow limitation and complications. At 1 month, his ABI improved to 1.14 with well-maintained PTA patency on duplex ultrasound. This case suggests that, alongside OFDI, IVUS might ensure optimal Esprit BTK deployment with greater ease in real-world clinical practice.

