NITINOL STENTING FOR CHRONIC TOTAL OCCLUSION (CTO) IN SUPERFICIAL FEMORAL ARTERY (SFA), LONG-TERM CLINICAL OUTCOMES FROM MULTICENTER REGISTRY.

i2 Poster Contributions
Georgia World Congress Center, Hall B5
Monday, March 16, 2009, 9:30 a.m.-10:30 a.m.

Session Title: Endovascular and New Technologies
Abstract Category: PCI - Endovascular
Presentation Number: 2505-449

Authors: Yasunari Sakamoto, Keisuke Hirano, Toshiya Muramatsu, Yoshimitsu Soga, Osamu Iida, Yokoi Hiroyoshi, Shinsuke Nanto, Saiseikai Yokohama City Eastern Hospital, Yokohama, Japan

Background: Endovascular treatment (EVT) for SFA, especially in complex lesion such as CTO has controversy whether surgical or interventional treatment is more suitable for the patients. In this study, we evaluated long-term clinical outcomes of Nitinol stenting for CTO in SFA.

Method: From April 2004 to December 2008, serial 324 arteriosclerosis obliterans patients, 348 limbs had EVT, implanted nitinol stent for denovo CTO in SFA at 3 hospitals in Japan. We evaluated patients and lesion background, procedure characteristics and clinical outcomes, retrospectively. All patients had a minimum follow-up of 6-month. Restenosis was defined as >2.4 of peak systolic velocity ratio by duplex or >50% stenosis by angiogram. Primary patency was defined as treated vessel without restenosis and repeat revascularization. Secondary patency was defined as target vessels which become totally occluded.

Result: In patients backgrounds, mean age was 72±8.9 years and male was 65%. Twenty six percent was chronic limbs ischemia patients. Average of ankle-brachial pressure index before procedure was 0.52±0.23. In procedure backgrounds, mean total stent length was 193±88mm, mean diameter of implanted stents was 7.5±0.8mm. 11 limbs (3%) had amputation through the study period. Primary and secondary patency, analyzed with TASCII classification is in table.

Conclusion: More complex lesion in TASCII classification may be difficult to keep the patency treated with Nitinol stenting for CTO in SFA, but it seems acceptable.