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The clinical impact of repeated DES placement for restenosis after sirolimus eluting stent implantation

<sup>1</sup>Sakurabashi-Watanabe Hospital

Makito Ozawa<sup>1</sup>, Atsunori Okamura<sup>1</sup>, Yoshiharu Higuchi<sup>1</sup>, Motoo Date<sup>1</sup>, Kenshi Fujii<sup>1</sup>

AIMS: Some patients suffer from recurrent restenosis despite using DES. The clinical significance of the repeated DES placement is less certain. The aim of this study is to clarify the clinical significance of the repeated DES placement compared with POBA treatment. METHODS: We measured minimal lumen diameter (MLD) and reference diameter (RD) before and after the procedure. Lesion morphology is classified by the modified ACC/AHA classification. We divided two groups, the repeated DES placement (DES group) or POBA (POBA group). We compared the QCA data and lesion morphology during the first SES implantation and second PCI procedure between the groups. RESULTS: We enrolled 71 patients with 91 lesions. The DES group consisted 71 lesions and POBA group 20 lesions. There is no significant difference in coronary risk factors and responsible coronary arteries between the groups. There is also no difference in MLD and RD during first PCI. Before the second PCI, DES group contained the smaller lesion (0.63±0.39mm vs. 0.88±0.52mm, p=0.009). Lesion length tended to be smaller in POBA group (8.8±4.2mm vs. 7.1±3.0mm, p=0.051). The ratio of TypeB2/C lesion is no difference (35.2% vs. 35.0% respectively, p=0.93). In the end of second PCI, MLD in DES group is larger than the other group (2.87±0.47mm vs. 2.43±0.58mm p=0.0004). Recurrent restentosis occurred in 11leasions (15.5%), 4leasions (20.0%) in DES group and POBA group, respectively (p=0.74). Conclusion: DES implantation is more effective for the SES restenosis lesion with larger late loss. On the other hand, for focal restenosis lesion, POBA shows same clinical impacts as second DES implantation.