



## Interventional Cardiology

### IMPACT OF KISSING BALLOON INFLATION AFTER SINGLE STENT IMPLANTATION FOR LEFT MAIN DISTAL BIFURCATION LESIONS: NEW TOKYO REGISTRY

Poster Contributions  
Poster Hall, Hall C  
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Session Title: Complex Coronary Intervention: Left Main/Bifurcations and Multivessel Disease  
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**Background:** There were scarce data about the impact of Kissing-balloon inflation (KBI) in unprotected left main (ULM) bifurcation lesions treated with single stent strategy. Our study assessed whether routine KBI after successful single stenting of ULM to left anterior descending (LAD) would improve clinical outcomes.

**Methods:** We retrospectively identified 324 consecutive patients treated with drug eluting stent (DES) using single stent strategy for ULM to LAD stenting. Of these, 254 patients were treated with KBI (KBI group) and 70 patients were treated without KBI (no KBI group). The primary endpoint of this study was the occurrence of a major adverse cardiac event (MACE) at 5 years. MACE was defined as a composite of all-cause death, target lesion revascularization (TLR), and myocardial infarction (MI) and definite / probable stent thrombosis (ST). Individual components of MACE, cardiac death at 5 years, were also evaluated.

**Results:** The MACE rate at 5 years was significantly higher in no KBI group than in KBI group. During the 5 years after PCI, the overall TLR rate was significantly lower in KBI group than no KBI group [HR, 0.45; 95% CI, (0.24 - 0.85);  $p = 0.013$ ], which was mainly driven by lower rates of TLR for LCXos in the KBI group [HR, 0.34; 95% CI, (0.17-0.68);  $p = 0.003$ ].

**Conclusions:** Our study demonstrated that KBI significantly reduced the rate of TLR for LCXos.

#### Kaplan-Meier curve; With or without KBI

