

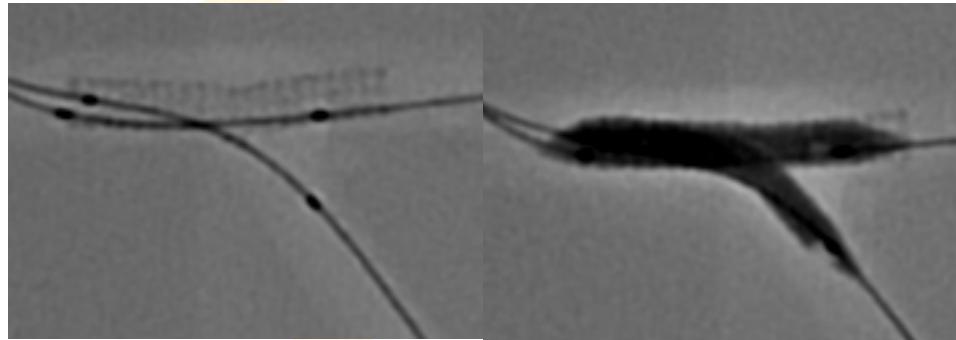


# **Can POT+SB dilation be an alternative to FKI?**

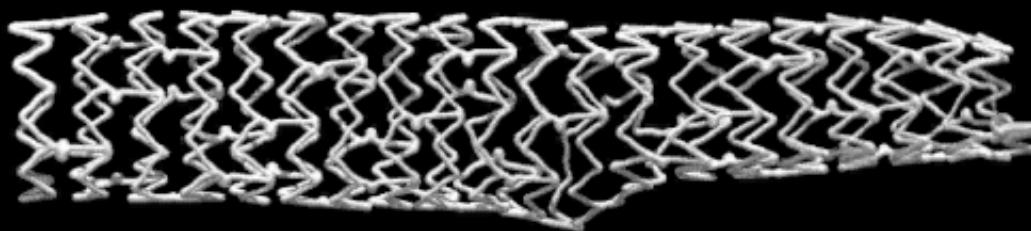
**Yoshinobu Murasato, MD, PhD**  
**Department of Cardiology,**  
**Kyushu Medical Center, Fukuoka, Japan**



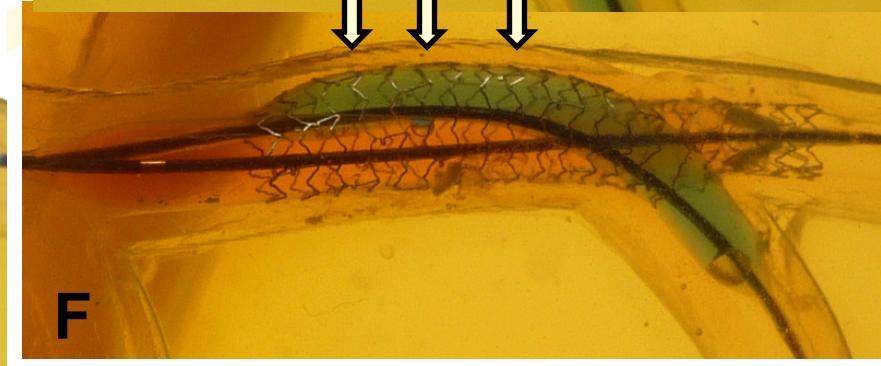
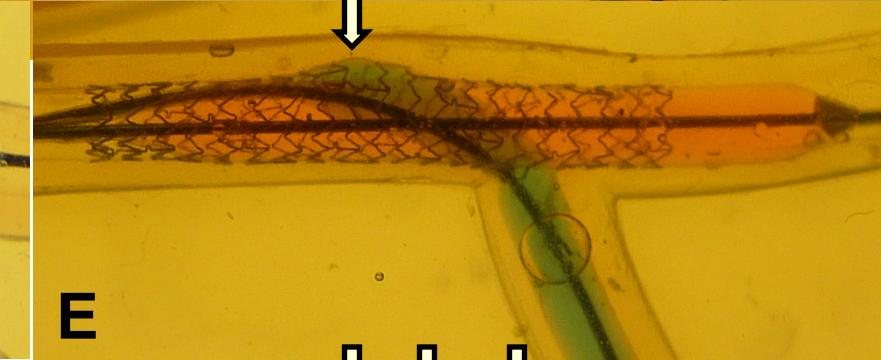
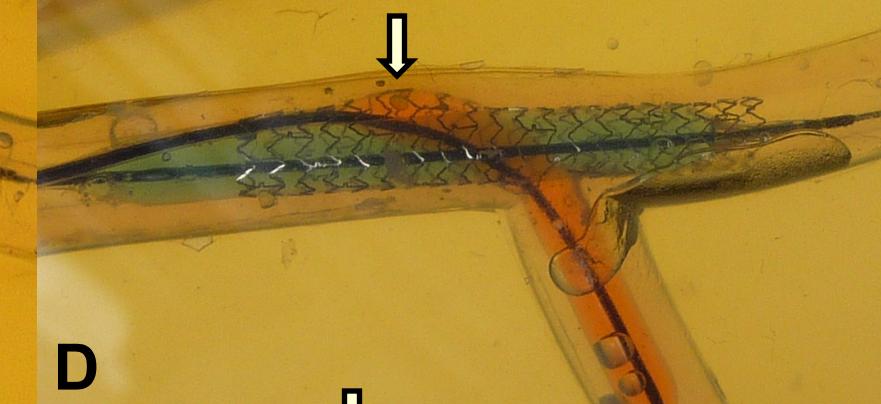
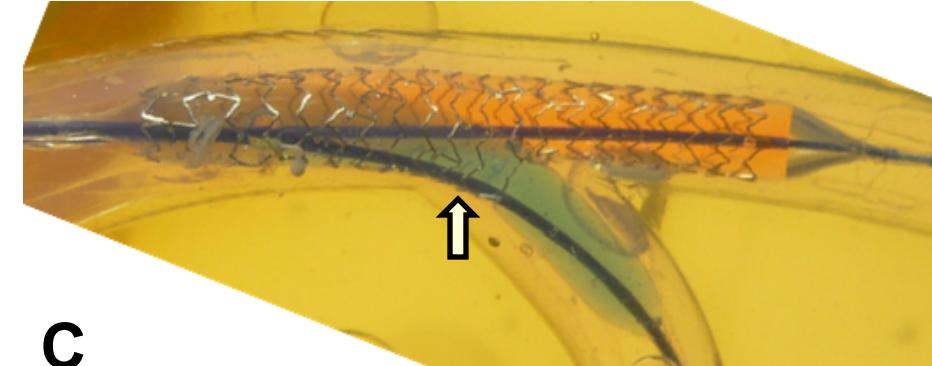
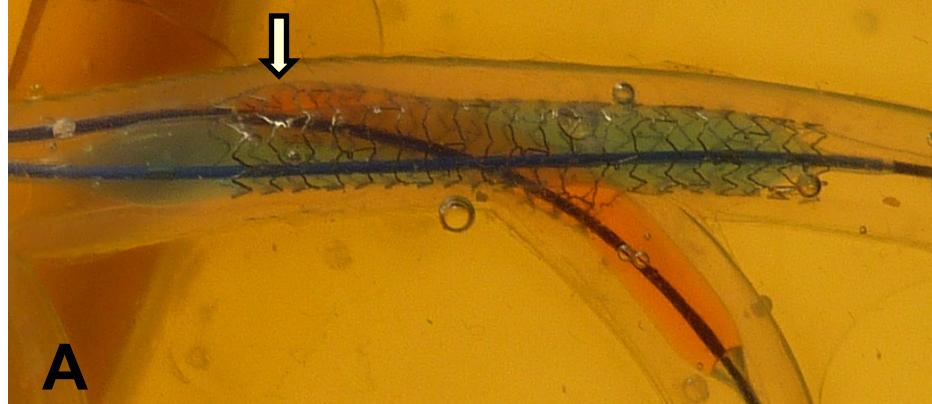
# Conventional FKI promotes elliptical deformation in proximal MV.



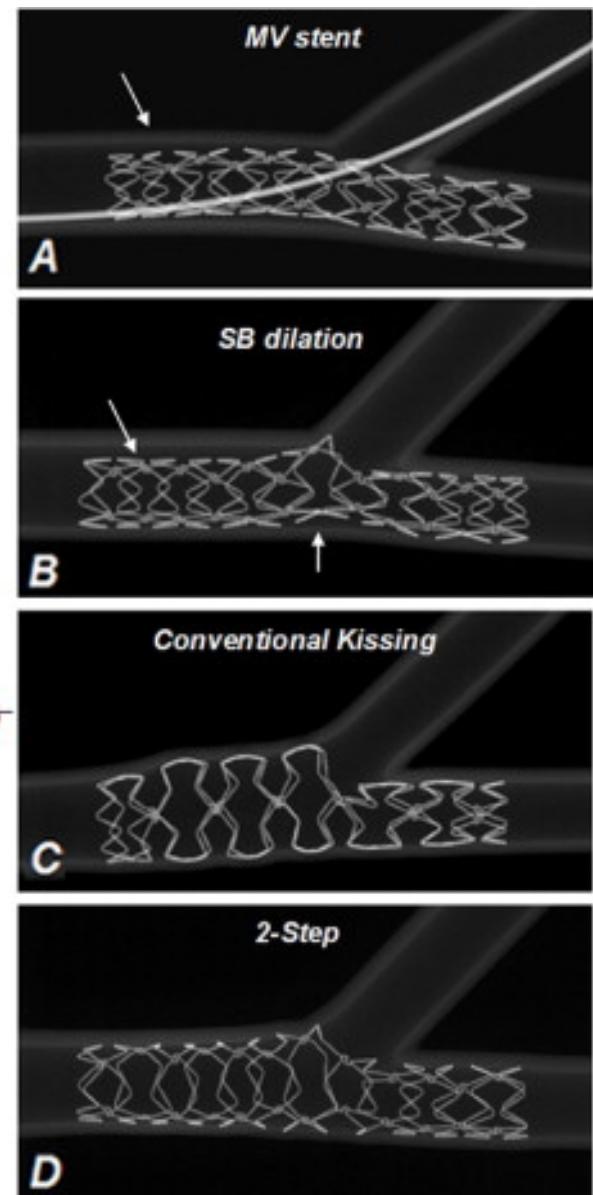
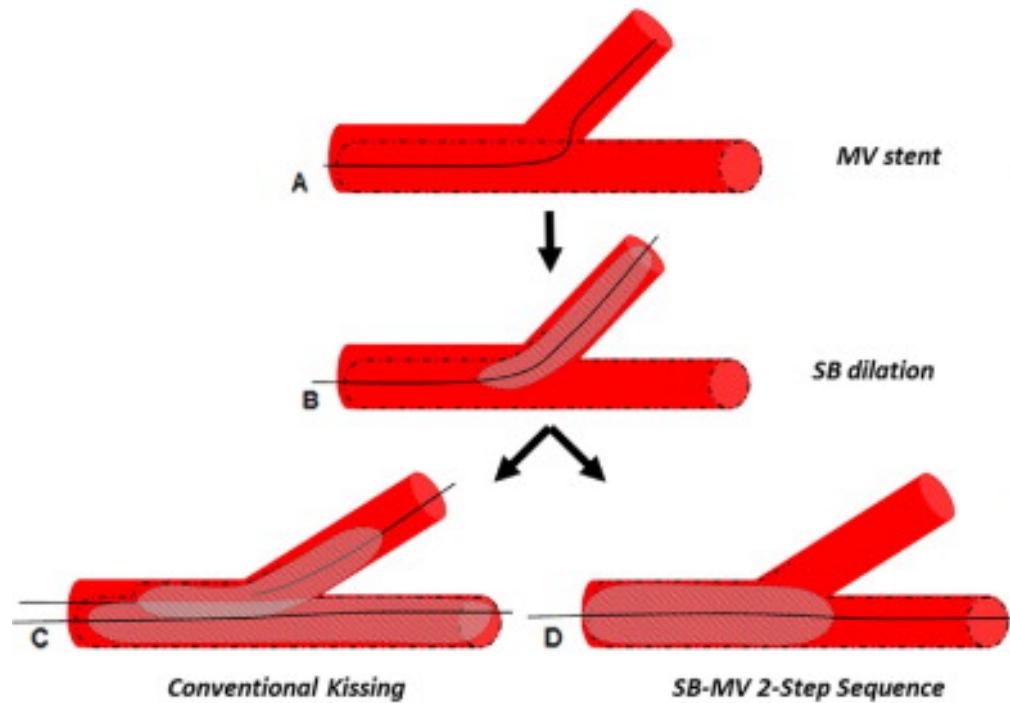
- ML Vision 3.5/28,  
14atm
- SB Ryujin 3.0/20,  
12atm
- KBT (6atm)  
MV Ryujin 3.5/20  
SB Ryujin 3.0/20



# Various proximal expansion is induced by KBI.



# 2-step ballooning

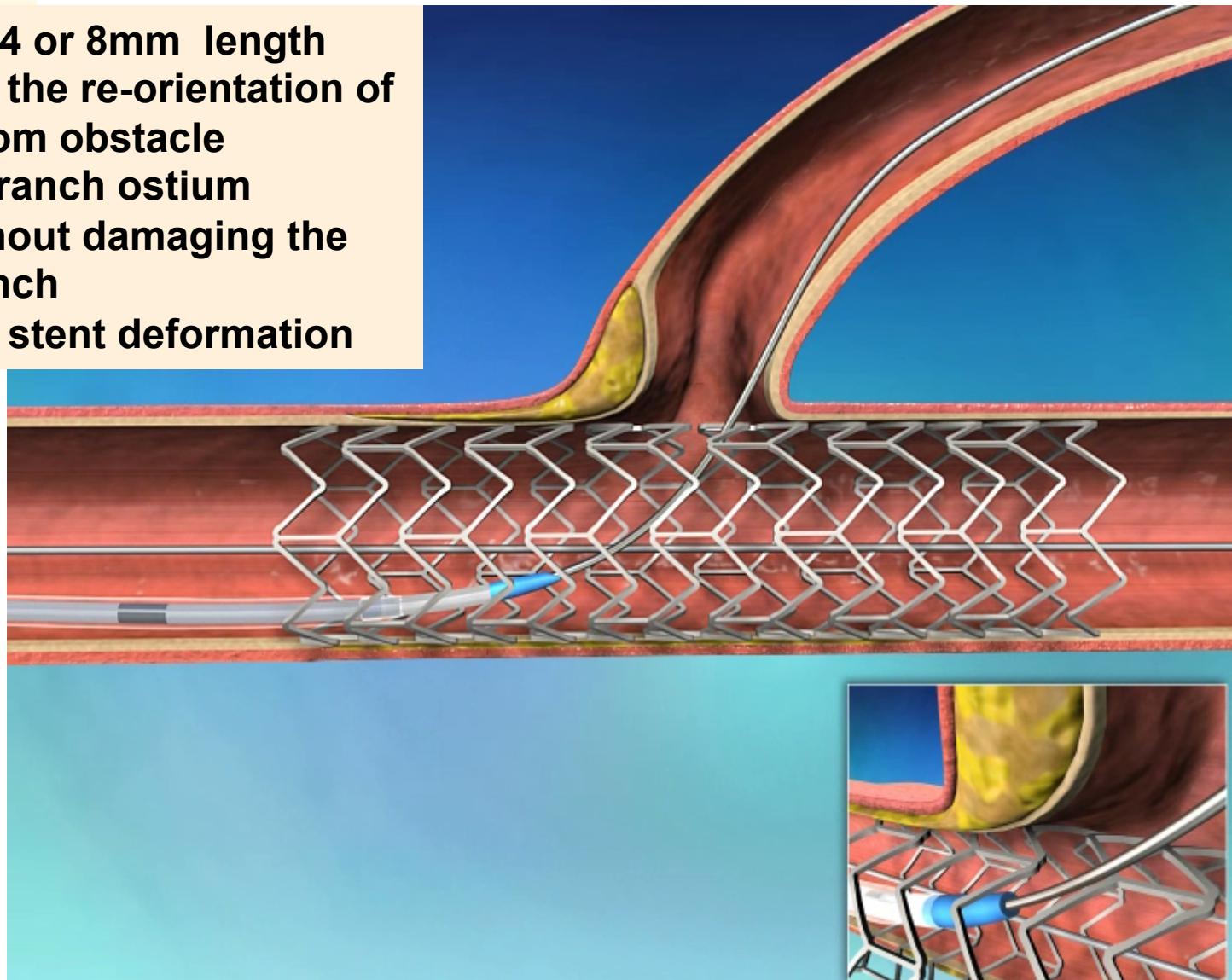


- SB ballooning + POT
- Less elliptical stent deformation and overexpansion



# Glider balloon: A unique dedicated SB balloon

- Short balloon 4 or 8mm length
- Torqueable for the re-orientation of the tip away from obstacle
- Optimal side branch ostium expansion without damaging the distal side branch
- Minimizing MV stent deformation

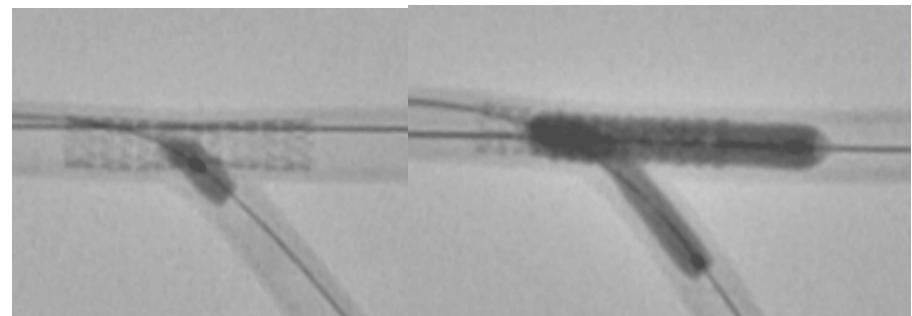
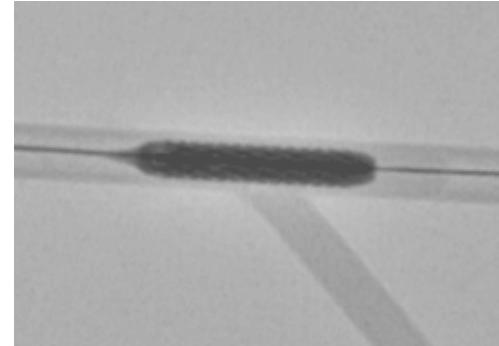




## I. Bench Testing

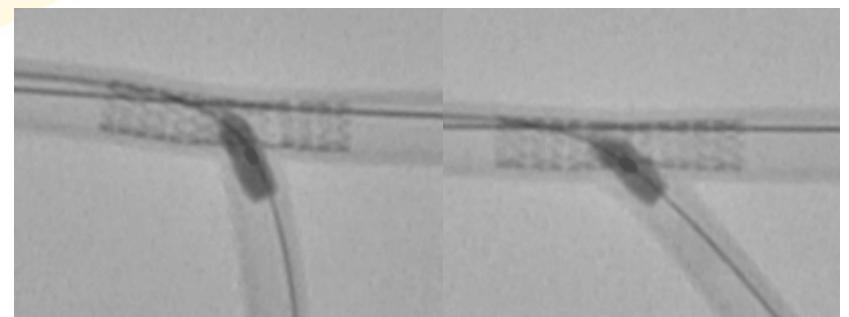
Murasato Y, Iwasaki K, et al. Euro PCR 2014

- MV stenting (18atm)
    - Nobori 3.5/18mm, 2link
    - Xience prime 3.5/18, 3link
    - Integrity 3.5/18, 2link, helical
  - Glider balloon (3.0/4 mm, 10atm) vs. SB dilation (NC Voyager 3.0/15 12atm) followed by KBI (stent balloon 3.5/18 + NC Voyager 3.0/15, 10atm)
  - High-angle ( $80^\circ$ ) model  
low-angle ( $45^\circ$ ) model
  - Evaluation on Micro CT

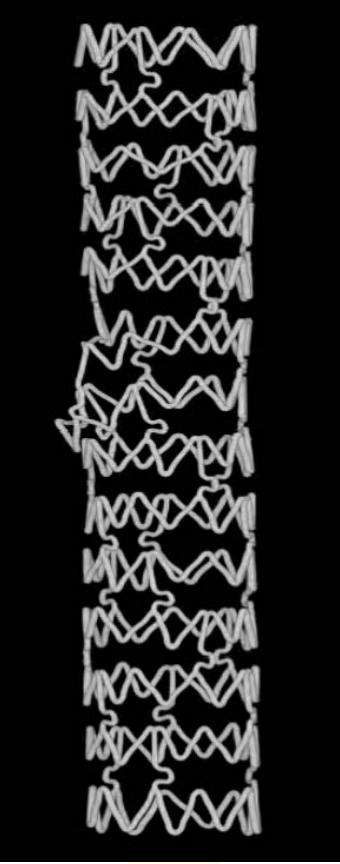
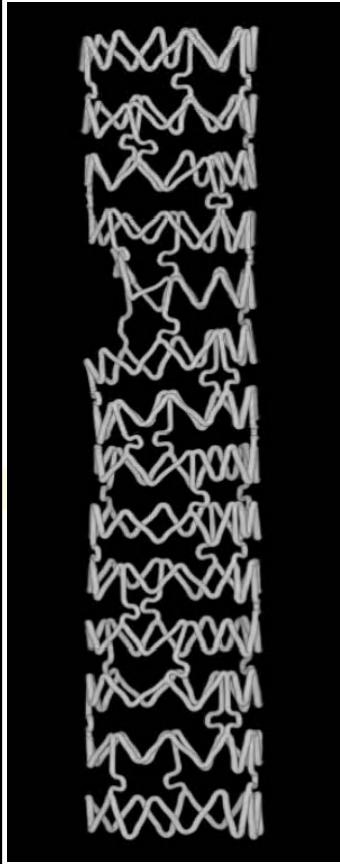
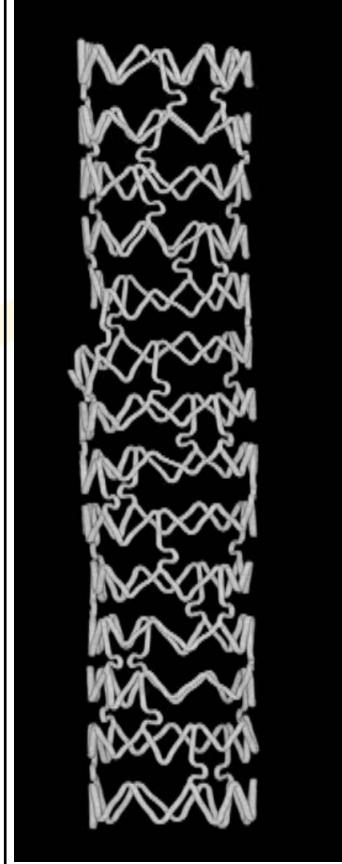


# Glider balloon

## KBI (minimal overlap)



80°

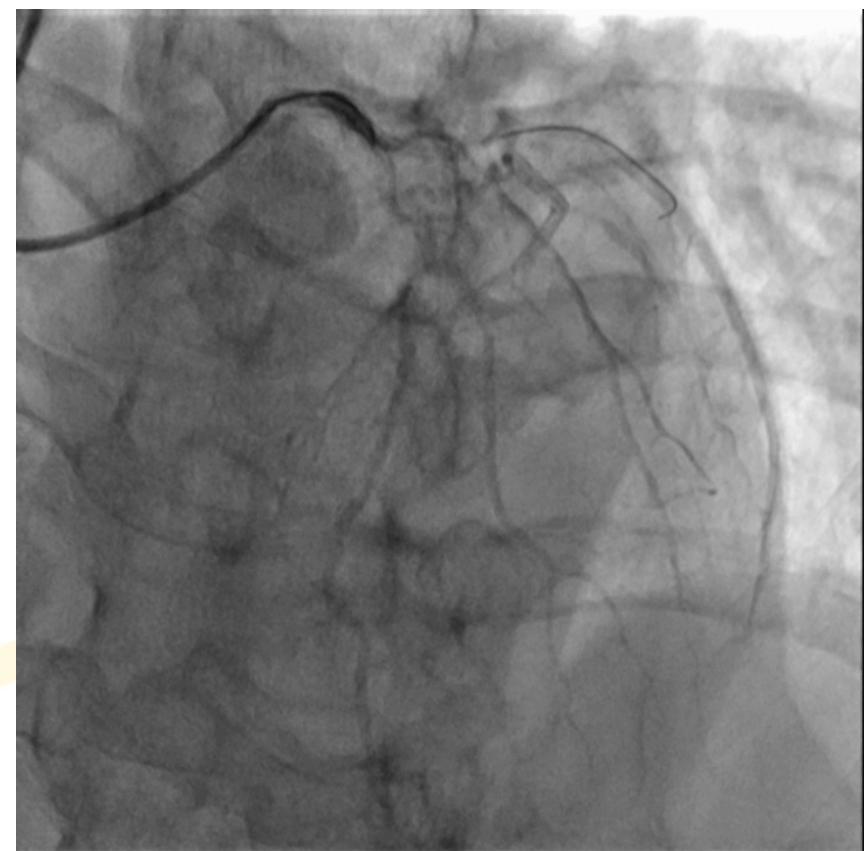
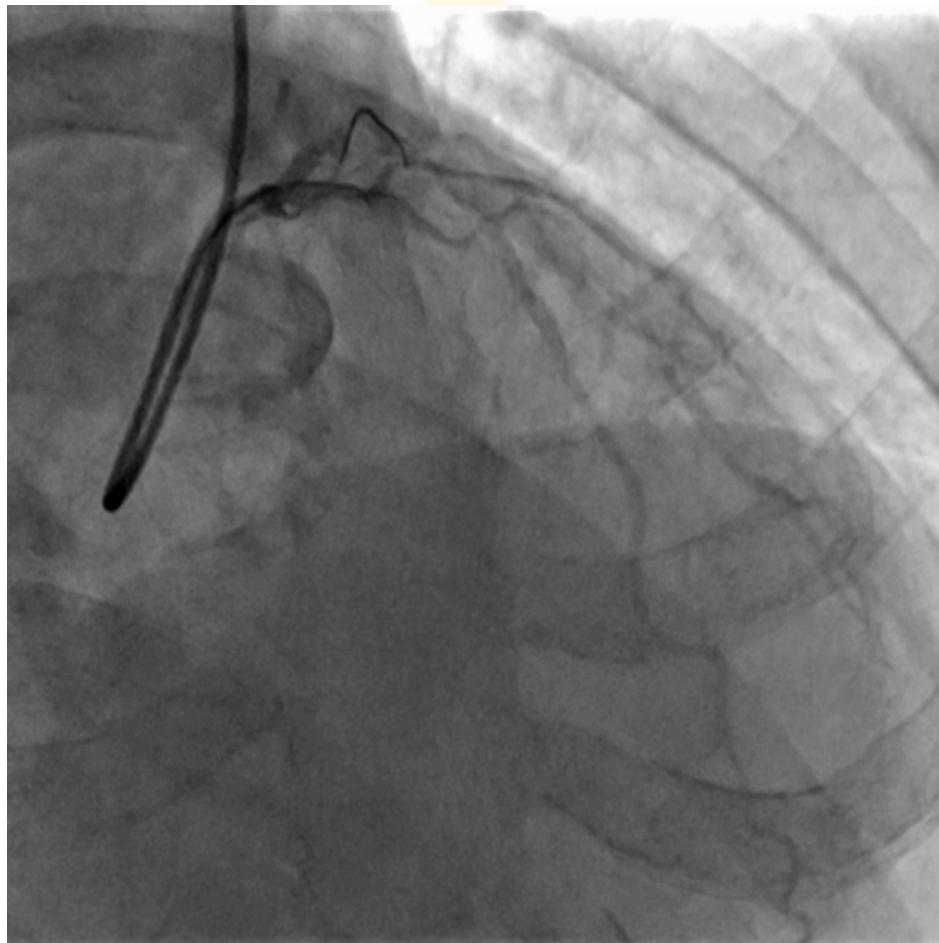
Bifurc angle	45 deg.		80deg.	
SB dilation	Glider	KBI	Glider	KBI
Stent configuration				



**Case: 69 y.o. male, effort AP**

**1-1-1 lesion in LAD-diagonal bifurcation**

Tortuous MV lesion and diffuse SB lesion



Rt radial approach, GC: IL3.5 SH, 6Fr

149215

# Predilation resulted in serious dissection in both branches.

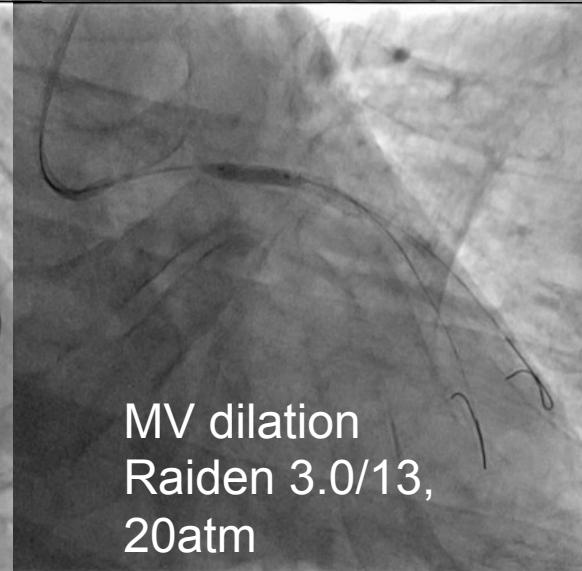
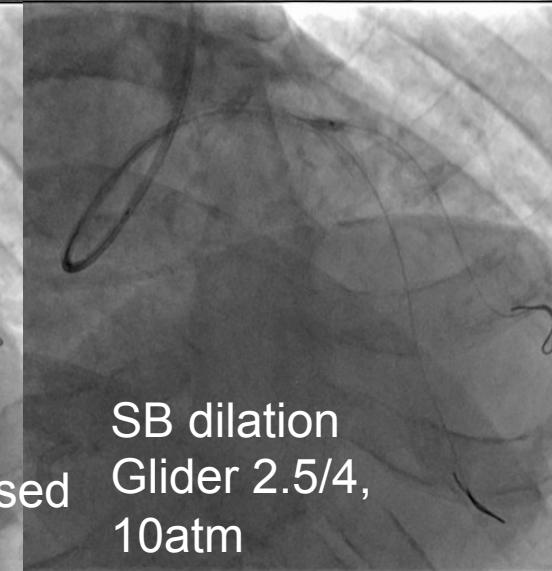
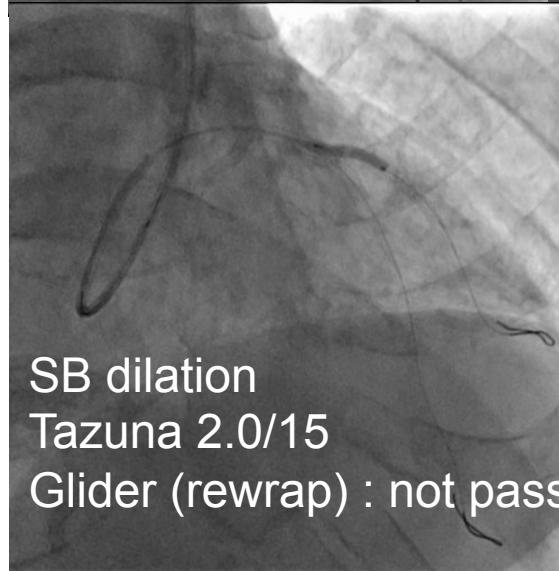
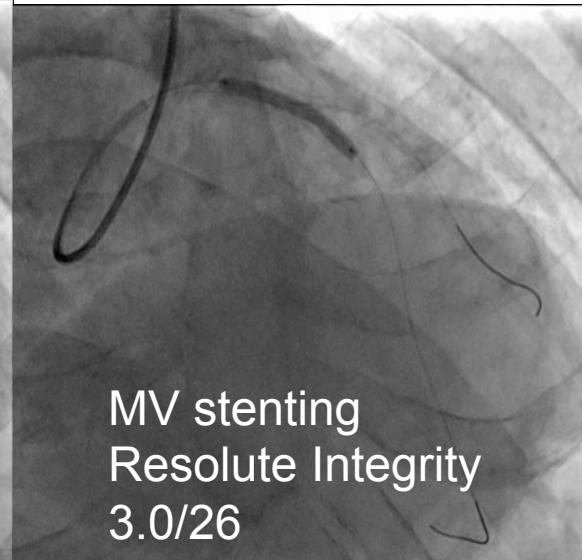
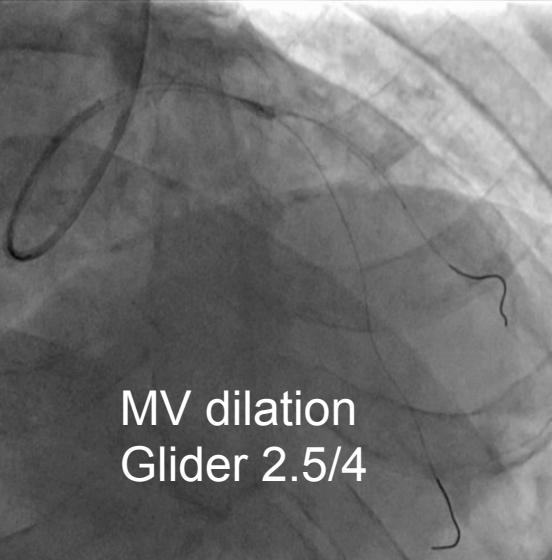


Predilation

MV: Raiden3.0/13, SB: Tazuna 2.0/15

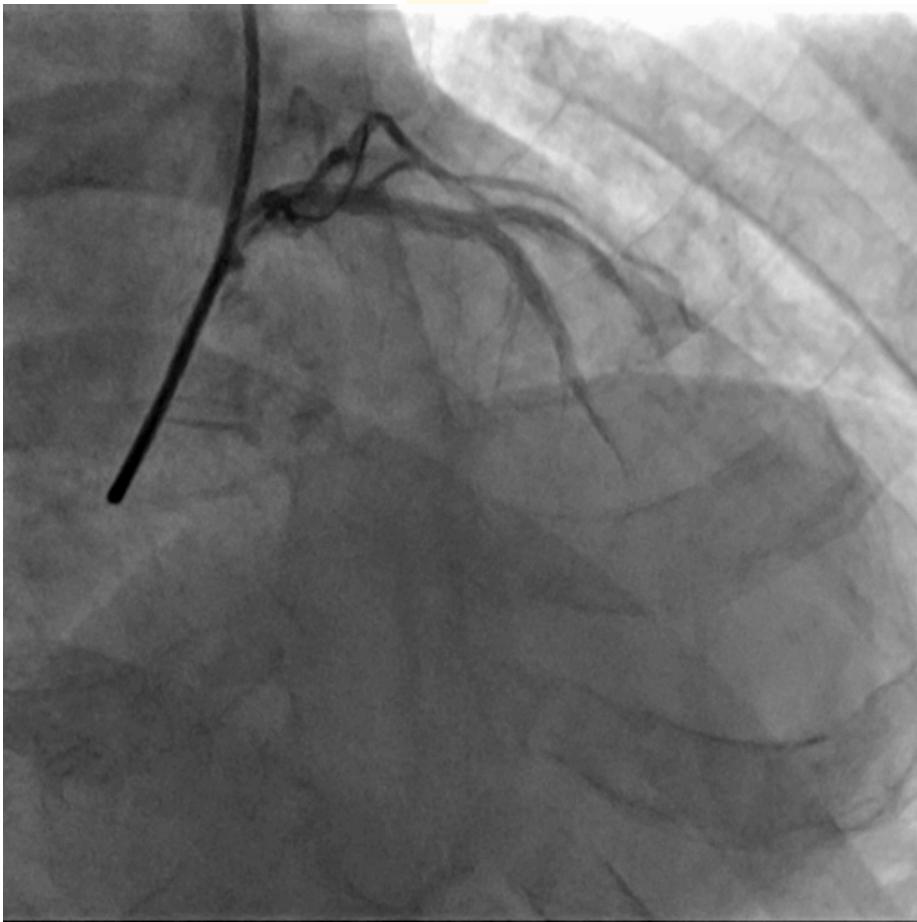


# Culotte stenting without FKI

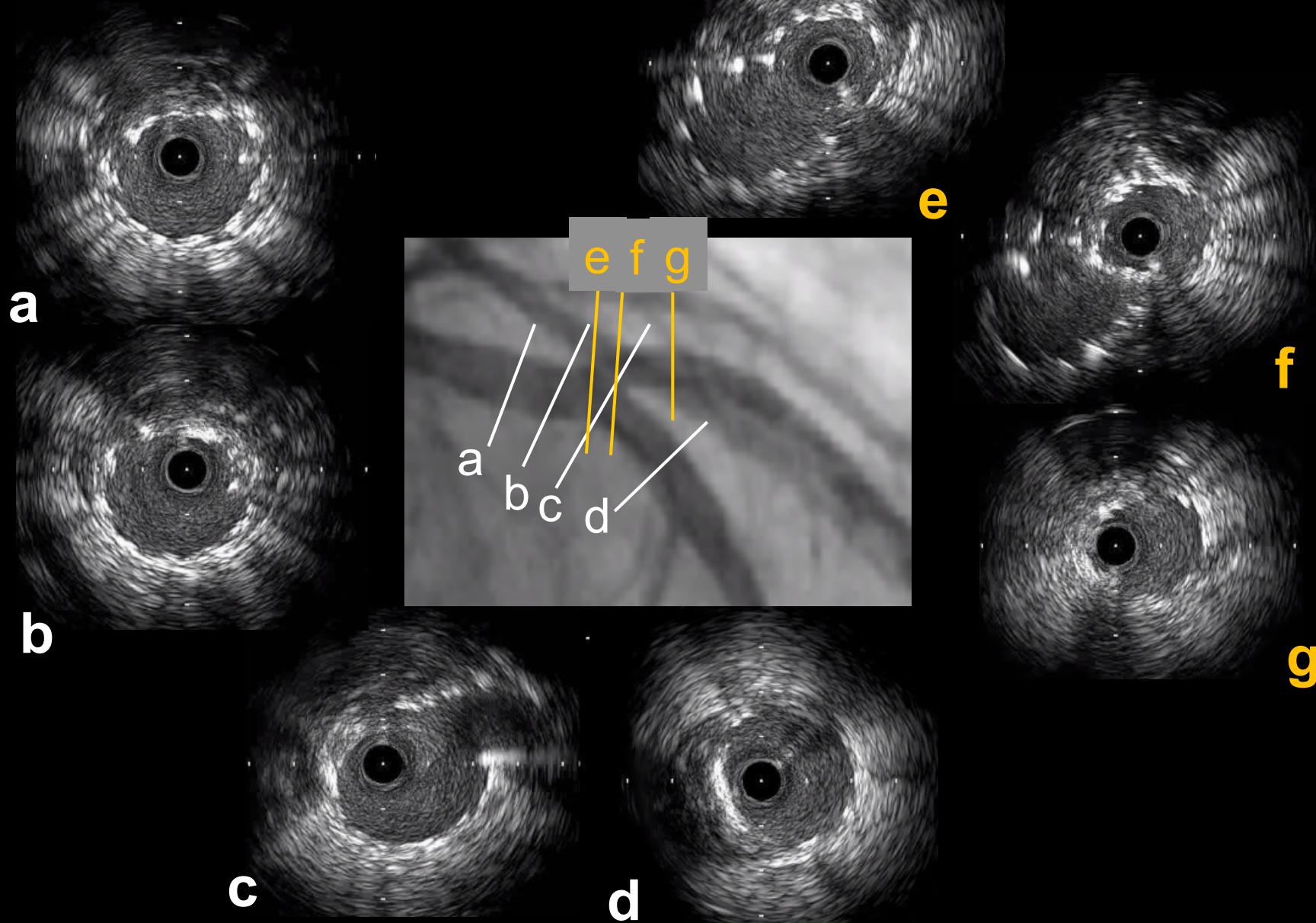




# Final CAG



# IVUS

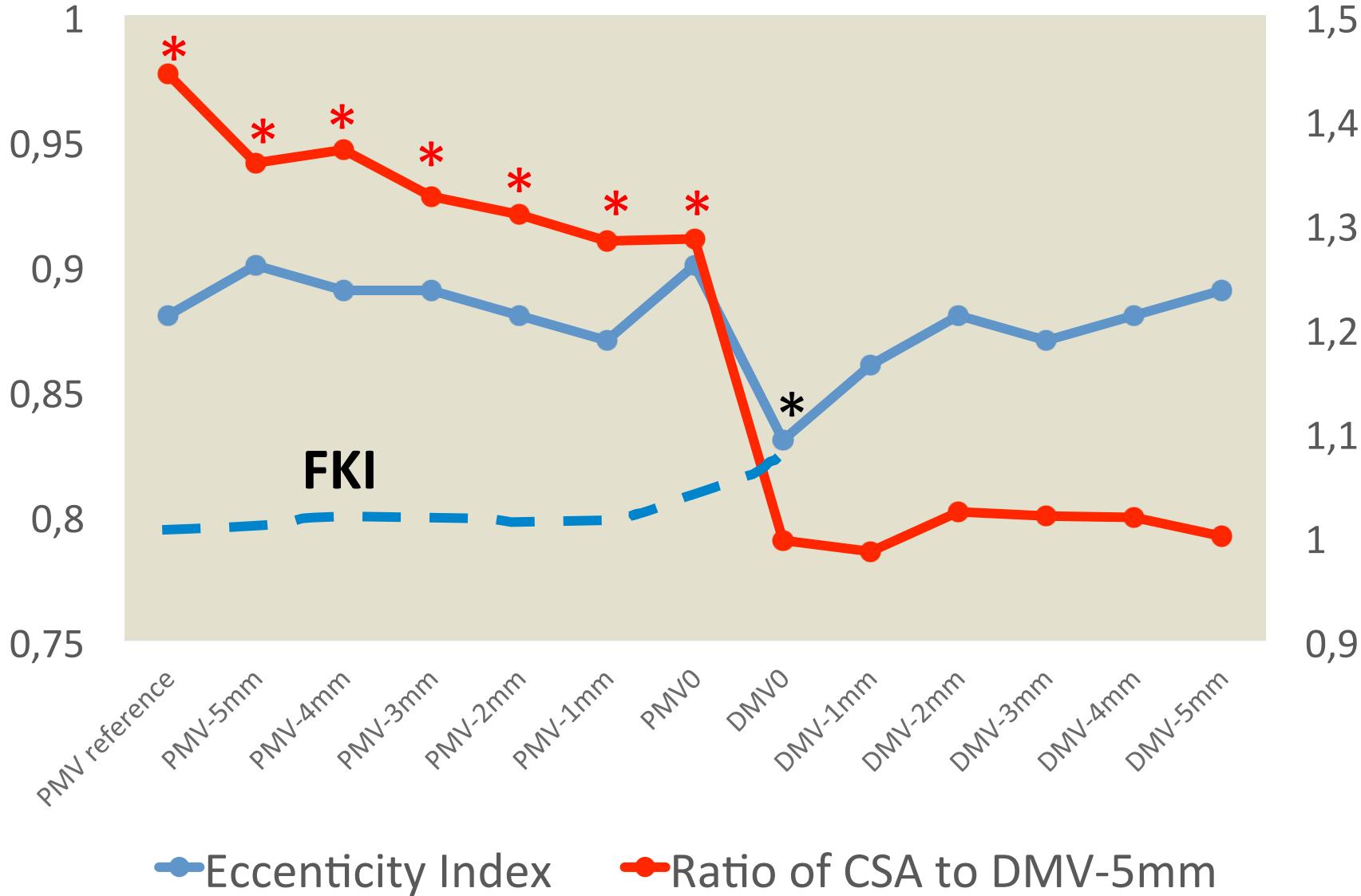




# *Glider: Experience in KMC (1)*

# Clinical outcome

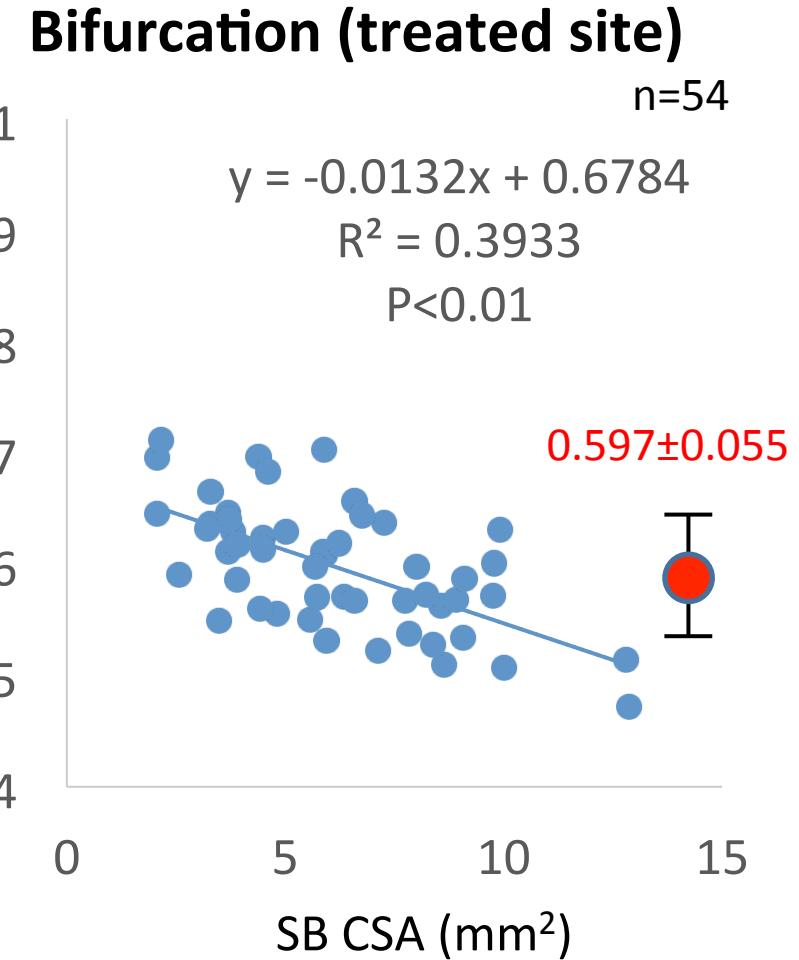
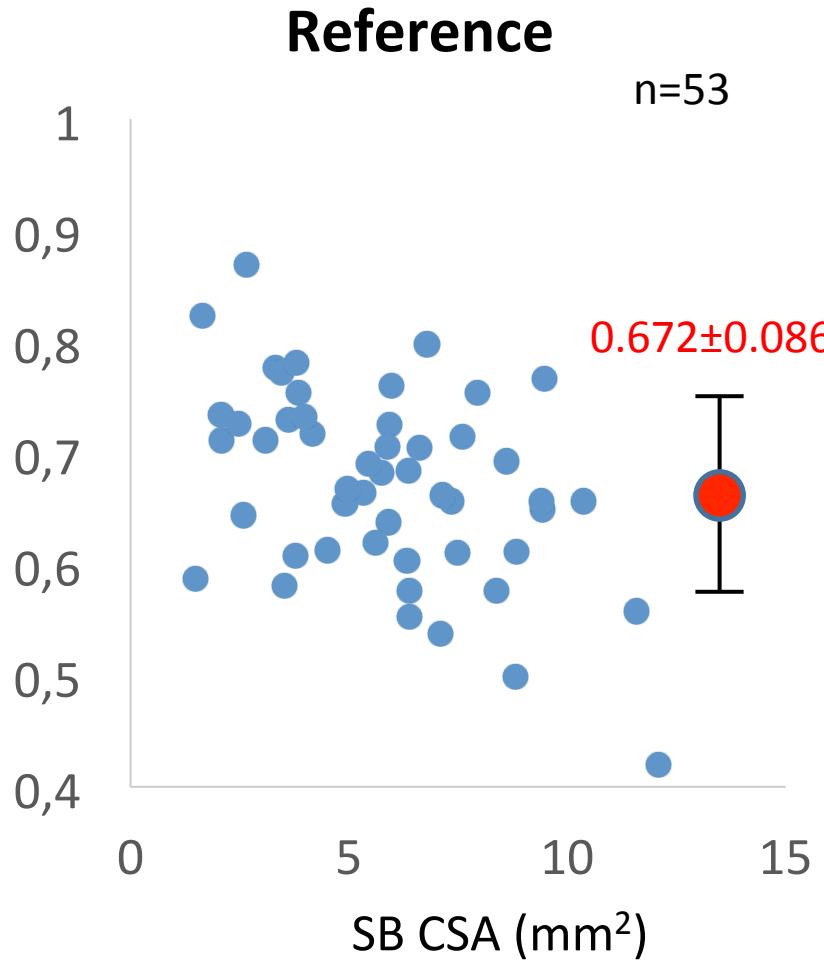
# Stent eccentricity index: POT + Glider



# Relation between fractal ratio and SB CSA

POT + Glider

*Fractal ratio = Diameter MV / Diameter (MB+SB)*



# Conclusion

**The SB dilation using the Glider balloon combined with POT is a simple and predictable procedure which provides more symmetrical stent expansion and less deformation compared to conventional FKI.**

**Thank you for your attention!**