

# **Planned two-stent strategy for left main bifurcation: When, How and clinical outcomes**

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# Contents

- ◇ **When to use 2-stent techniques?**
- ◇ **How to select 2-stent techniques?**
- ◇ **Evidence from clinical studies**

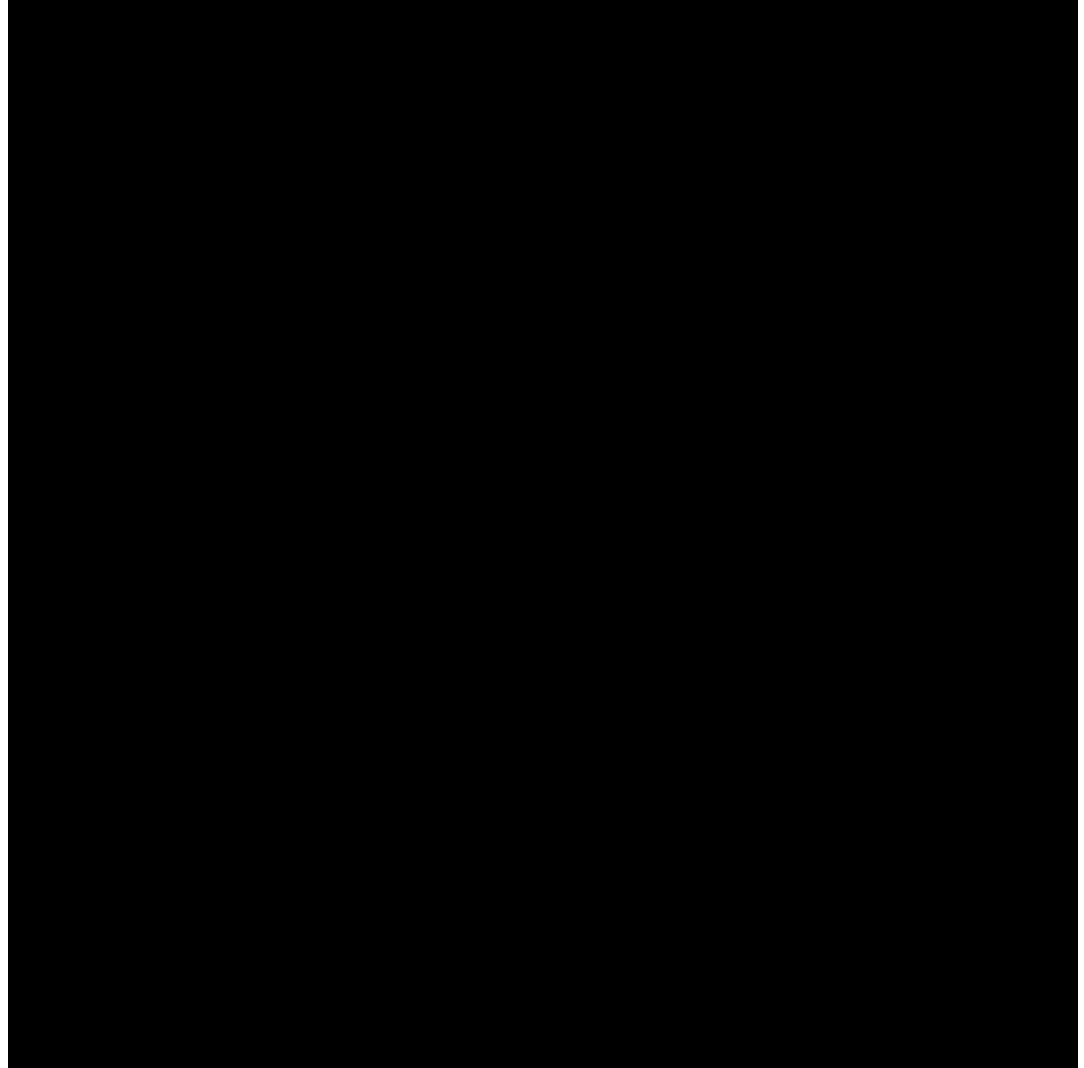
# How identical is the LM bifurcation

**Large caliber**

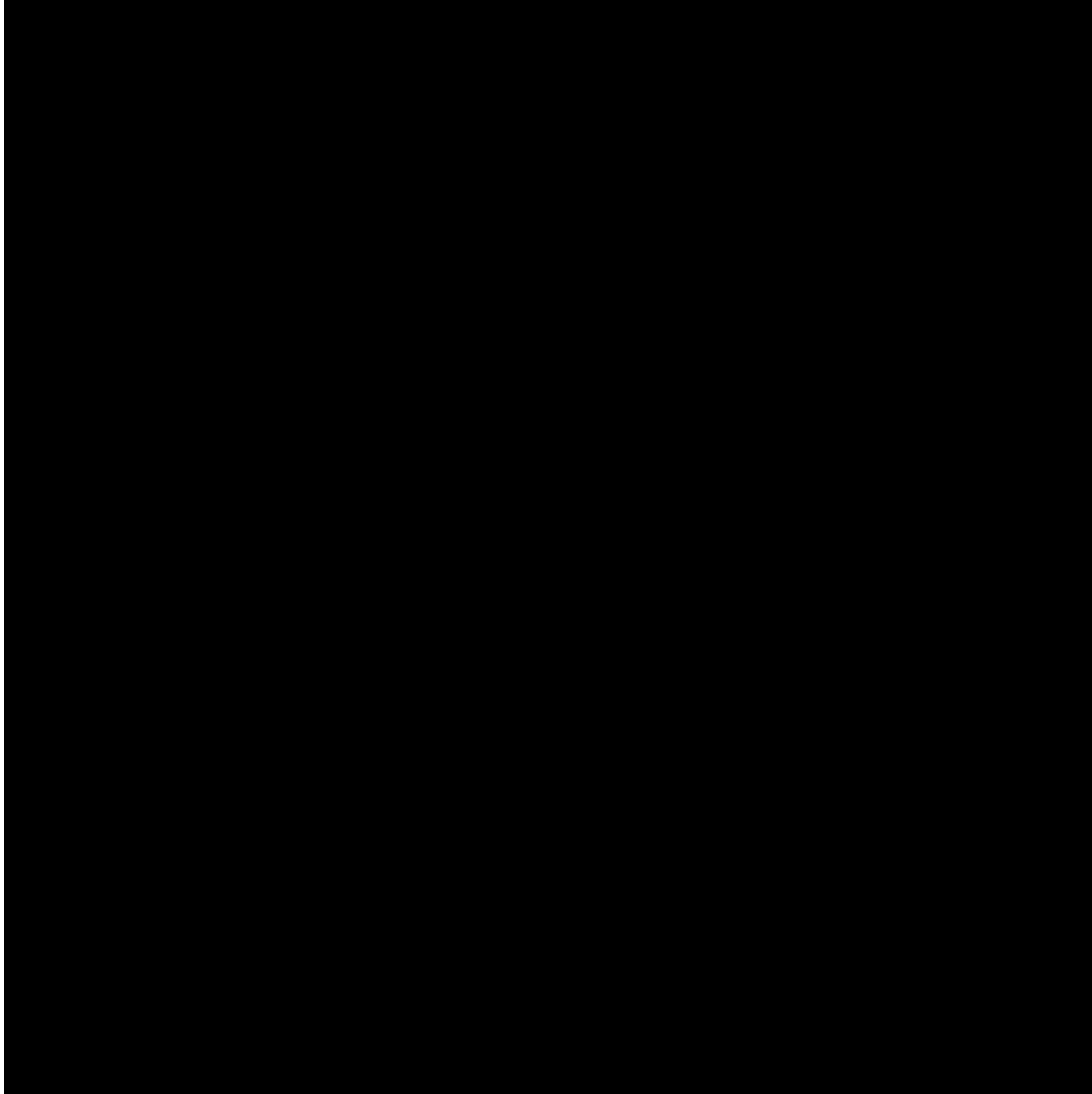
**Wider angle**

**More 3-VD**

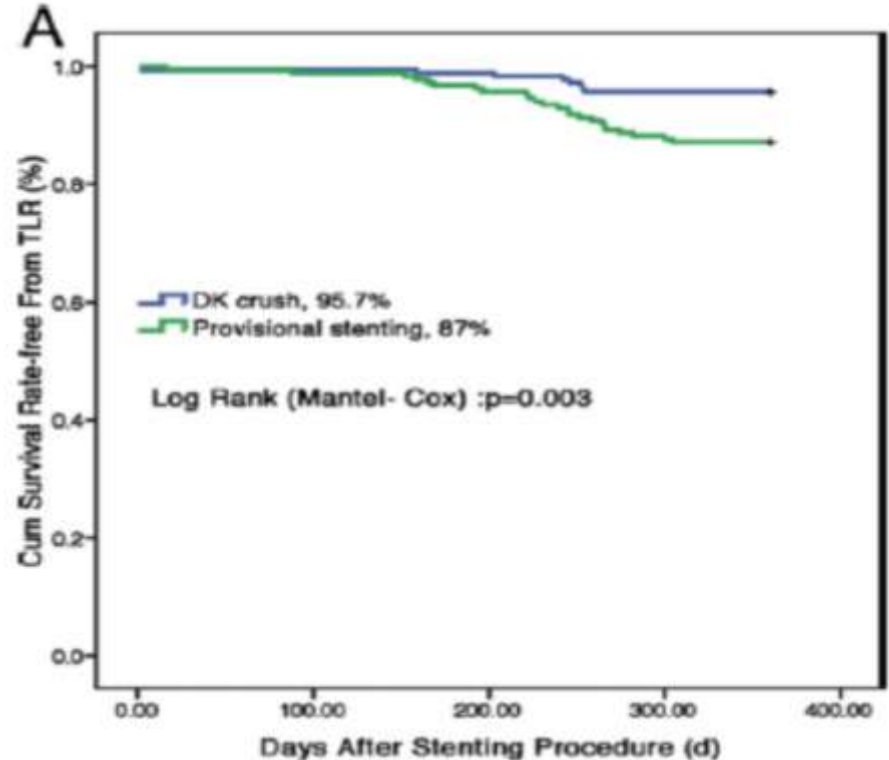
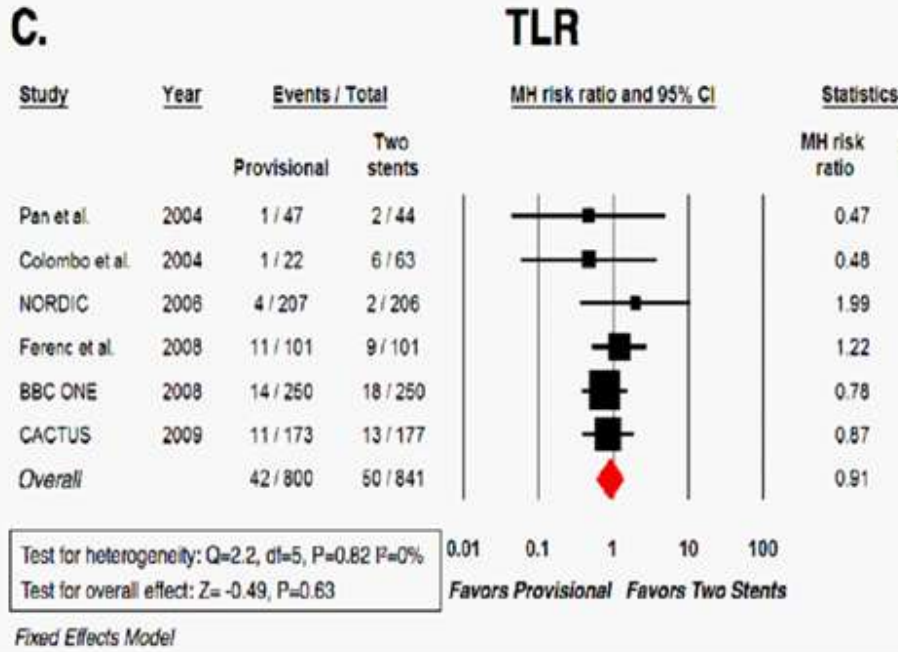
**(~80%)**



# Overlapping needs IVUS



# Why are they different?



**They are different**

**SB plaque burden**  
**SB lesion length**  
**→ No. pts with LM bif.**  
**No. 2/3-VD**  
**Calcification**

# In general, LM bif. Is more complex

**Question is-how complex is complex?**

**There is an urgent need of a criterion to identify the complexity of LM bifurcation lesions**

<20

55 (26.2)

47 (22.5)

0.241

## **Comparison of Double Kissing Crush Versus Culotte Stenting for Unprotected Distal Left Main Bifurcation Lesions**

Results From a Multicenter, Randomized, Prospective DKCRUSH-III Study

# DEFINITIONS study

**1550 patients with true Bif. + SB  $\geq$  2.5 mm**



**Build a criterion to differentiate simple from complex bifurcation lesions**



**To be tested in another 3660 patients with true bifurcation lesions + SB  $\geq$  2.5 mm**

**Major criterion for LM bif.**

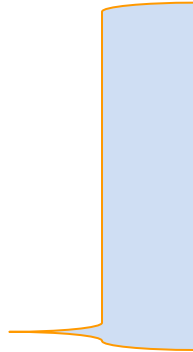


**SB-DS $\geq$ 70% with  
SB lesion  $\geq$  10mm**



**Complex LM Bif.**

**Any two**

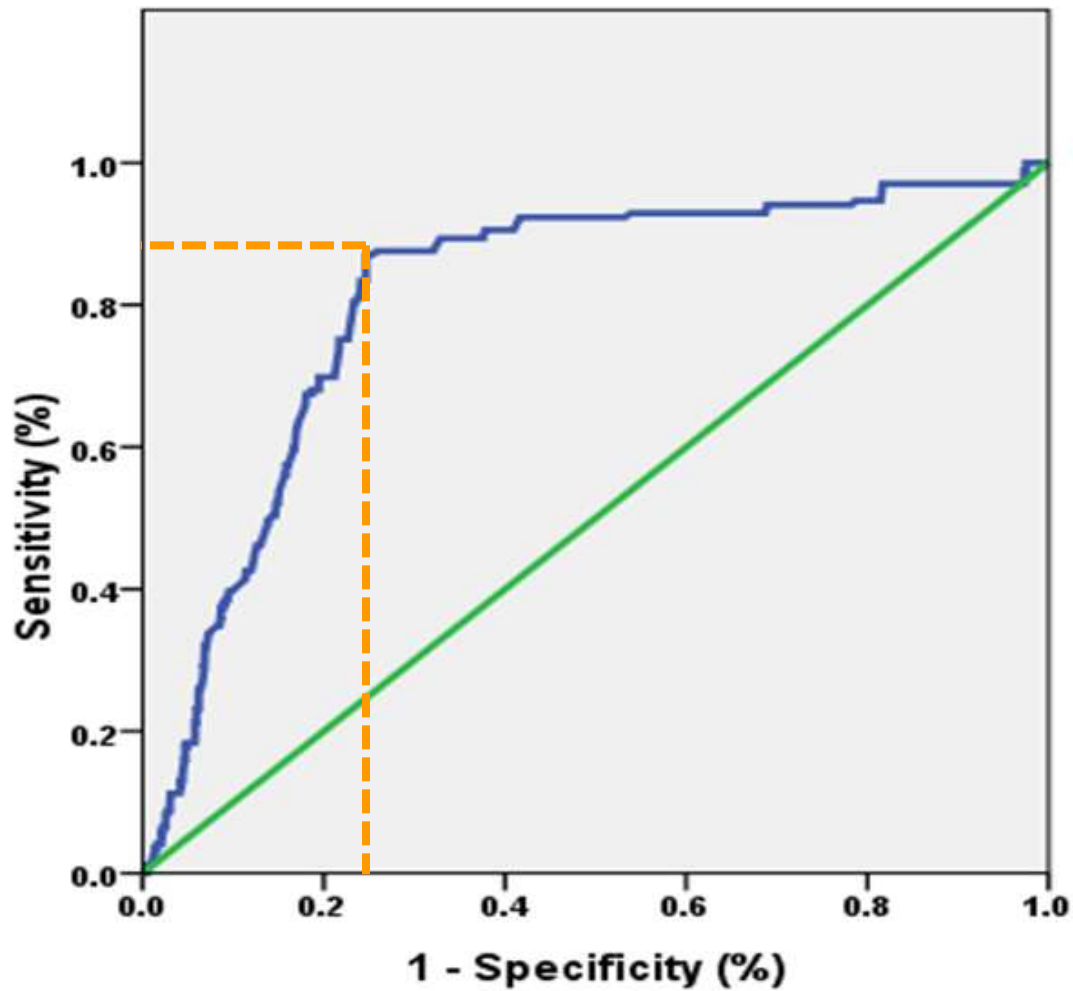


**Minor criteria for LM bif.**



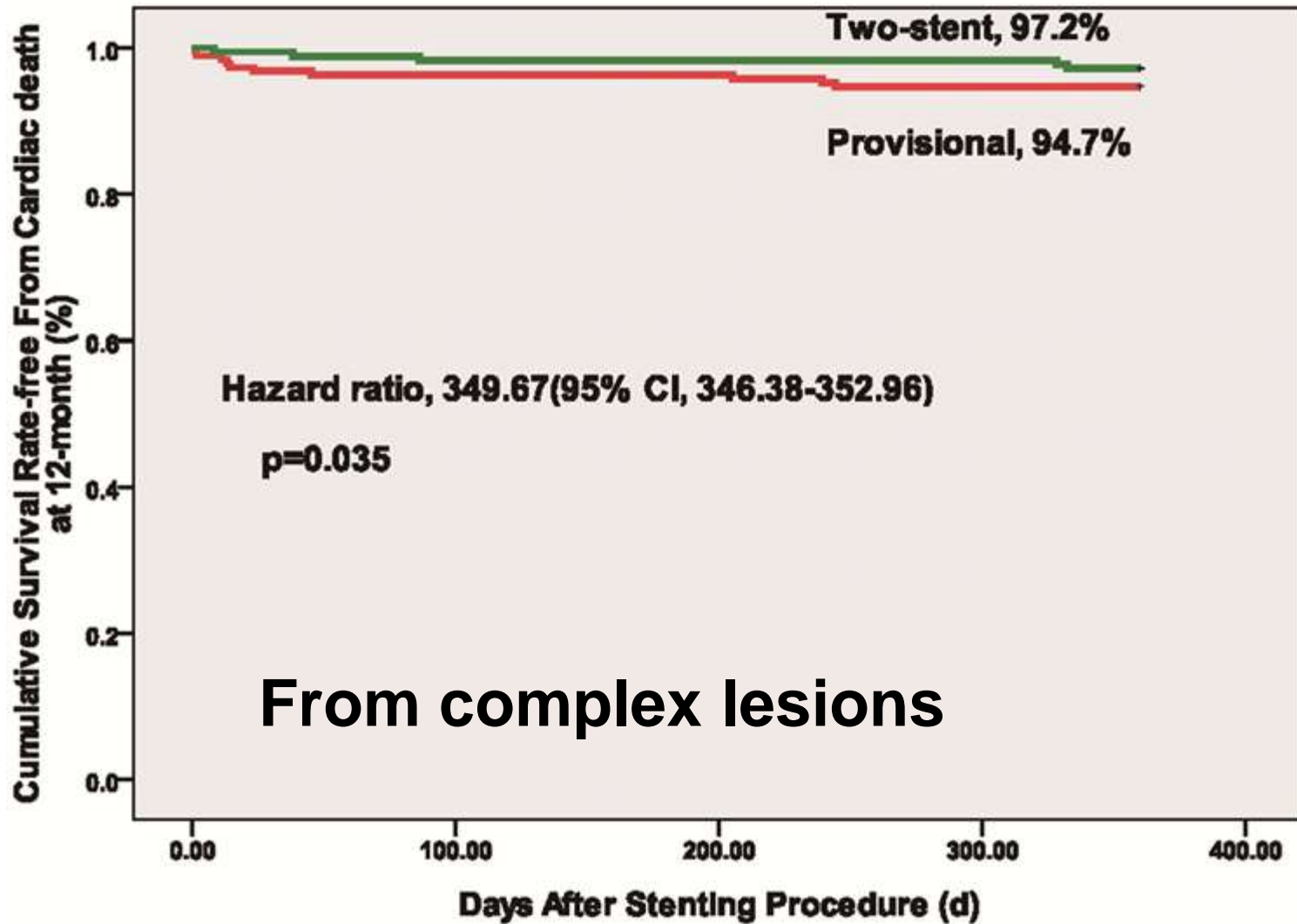
- 1.  $\geq$ Moderate calcif.**
- 2.  $\geq$ 2 bif.**
- 3. Thrombus-containing**
- 4. MV lesion length $\geq$ 25mm**





**Figure 1. Analysis of predictive value of new stratification by ROC analysis**

# One-year results



# Conclusion 1

Two-stent techniques are used for complex bifurcation lesions

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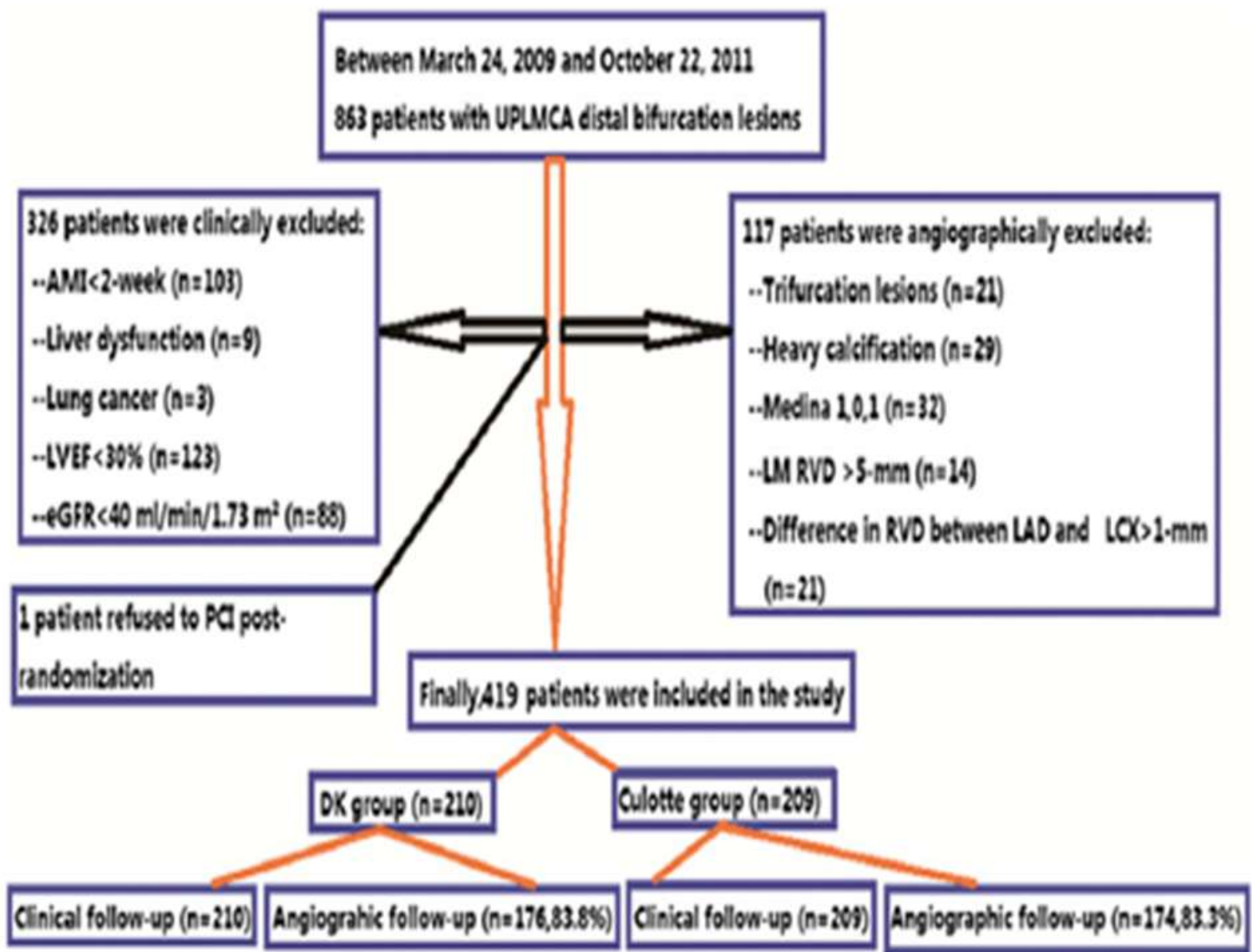
# Clinical studies analyzing two-stent approach for LM Bif.

**DKCRUSH-III**

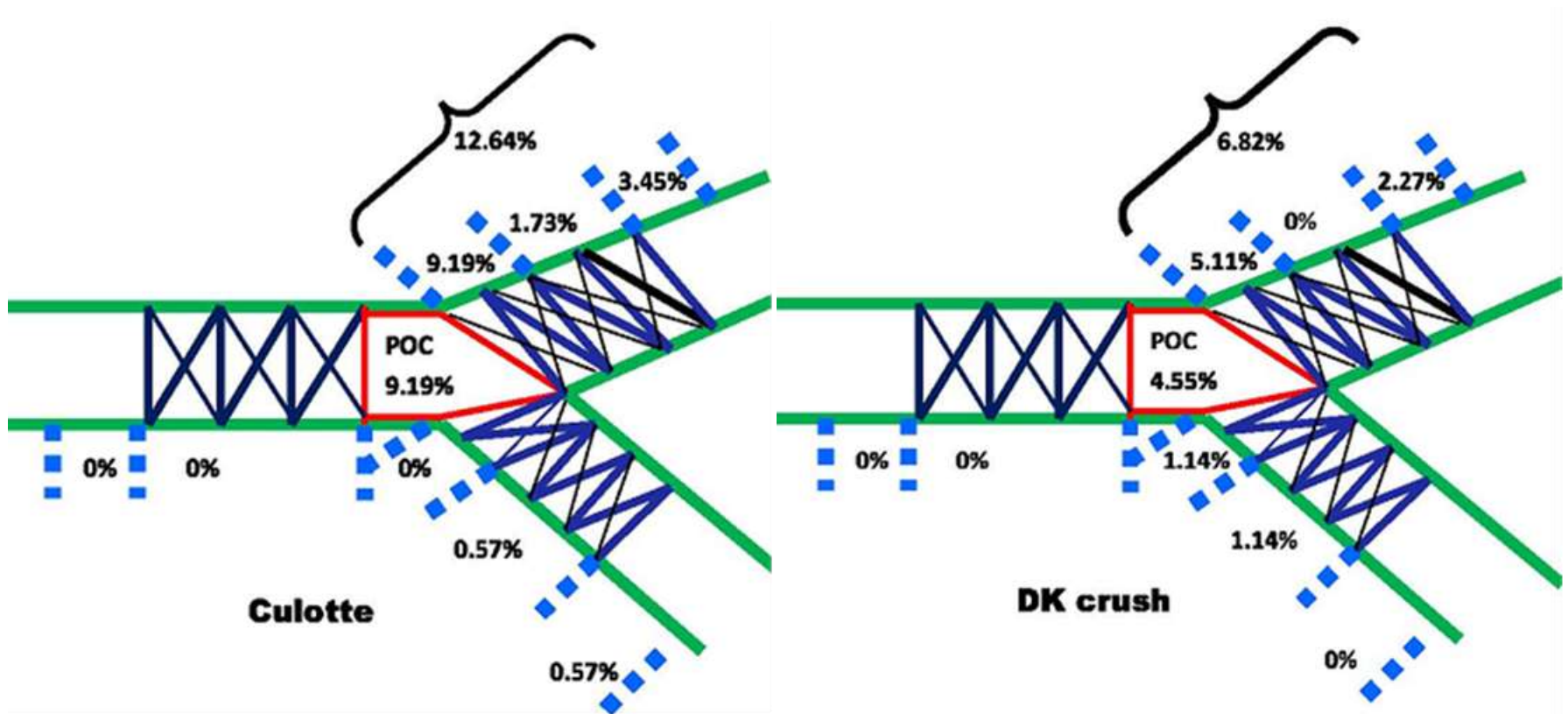
**RCT**  
**DK vs culotte**  
**1-year F/U**

**ISAR-Left main**

**RCT**  
**Cypher vs Taxus**  
**9-month F/U**

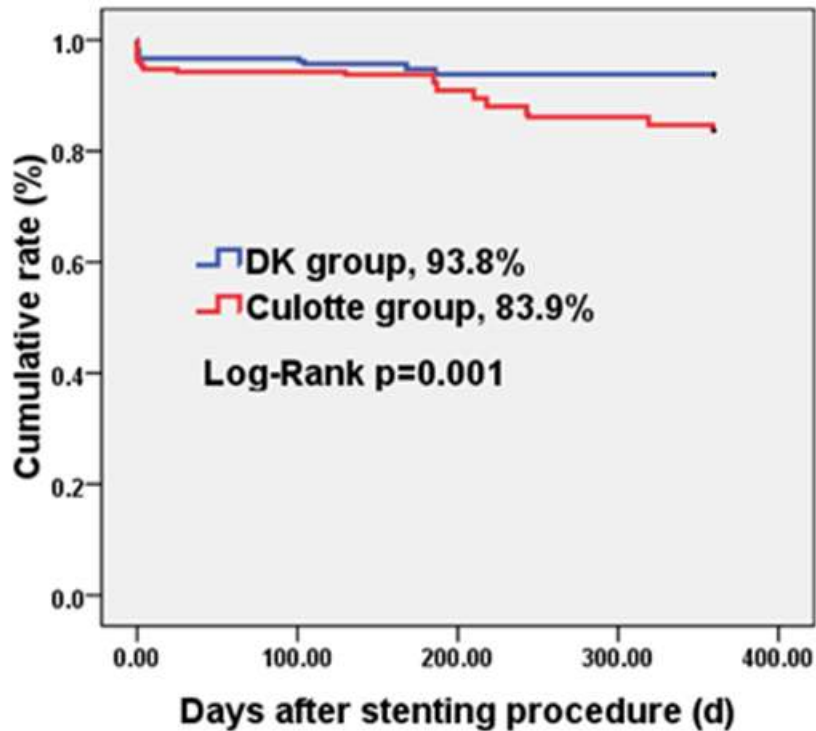


# Location and frequency of ISR

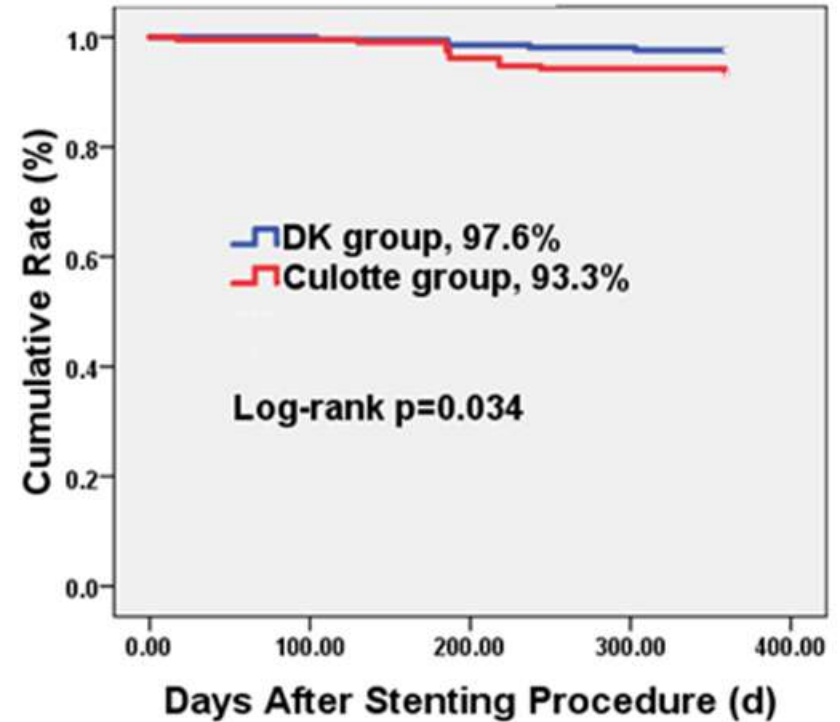


# One-year results

MACE-free survival rate



TLR-free survival rate





# **Answer to “how to” ....**

**1. "Crush died in England and reappeared in China as DK-CRUSH. I do love this tech!" (Colombo).**

**My best from Rome.**

**Claudio M.**

**2. DK crush and T are my favorites**

Thanks for your attention!