

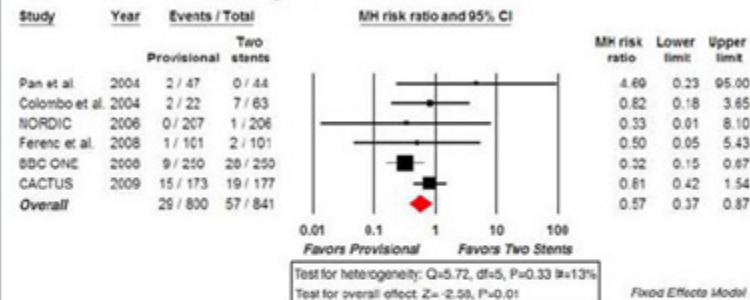


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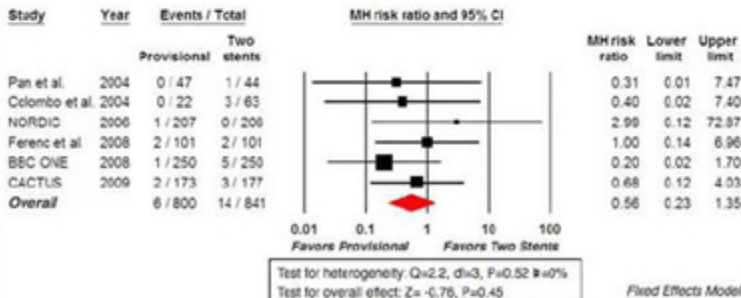
Bifurcation: unsolved issues

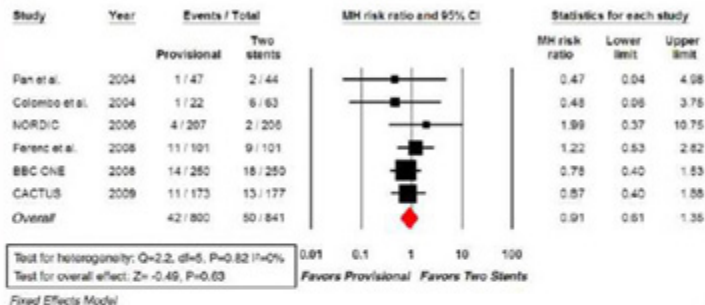
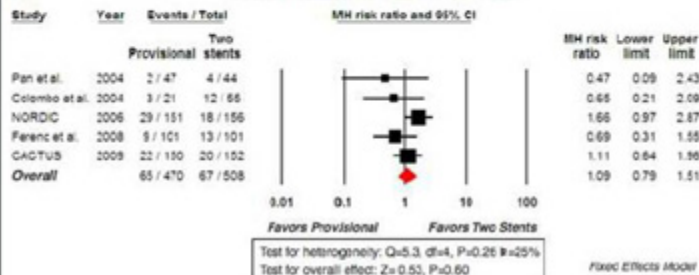
Bernard Chevalier
ICPS Massy
France






















B. Myocardial Infarction



E. Stent Thrombosis



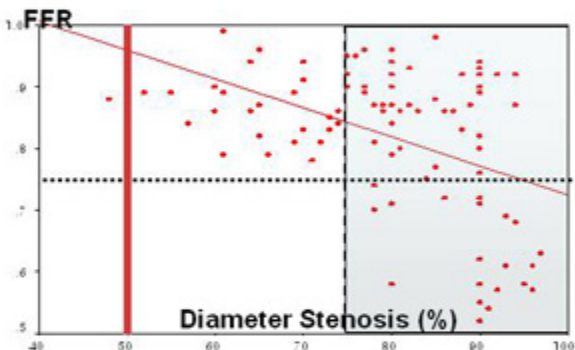
C.
TLR

D.
Side Branch Restenosis


	M Main prox. first	A Main Across side first	D Distal first	S Side branch first	
1st stent	 PM stenting	 MB stenting across SB	 DM stenting	 Provisional SKS	 SB ostial stenting
After balloon	 Skirt	 MB stenting + SB balloon	 MB stenting + kissing	 SB minicrush	 SB crush
2 stents	 Skirt + DM	 Elective T stenting	 Culotte	 Syst. T Stenting	 Minicrush
	 Skirt + SB	 Internal crush	 V stenting	 Crush	
3 stents	 Extended V		 Trouser legs and seat		

Learned from RCTs

- No systematic second stent
- When second stent is placed, Culotte is better than crush
 - Except in large angle : T stenting
- In single stent strategy, kissing is optional if angiographic success

What is the threshold to treat SB?

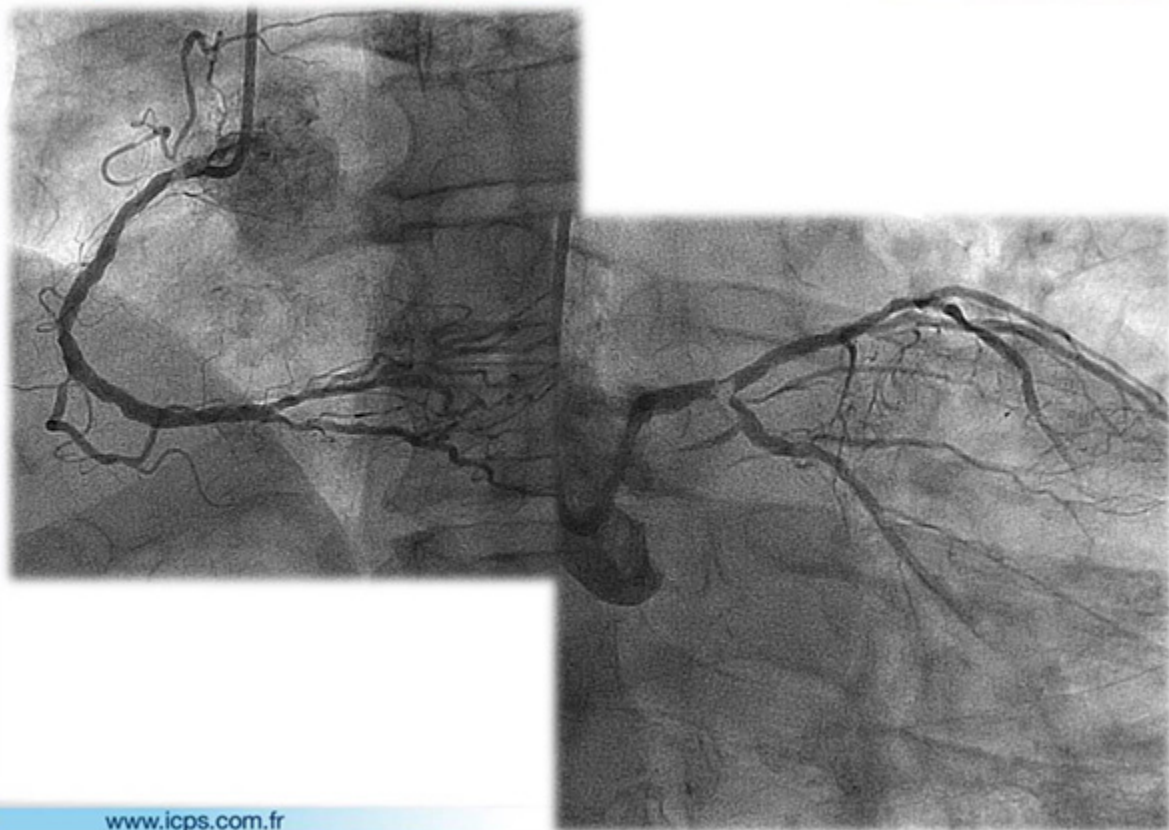


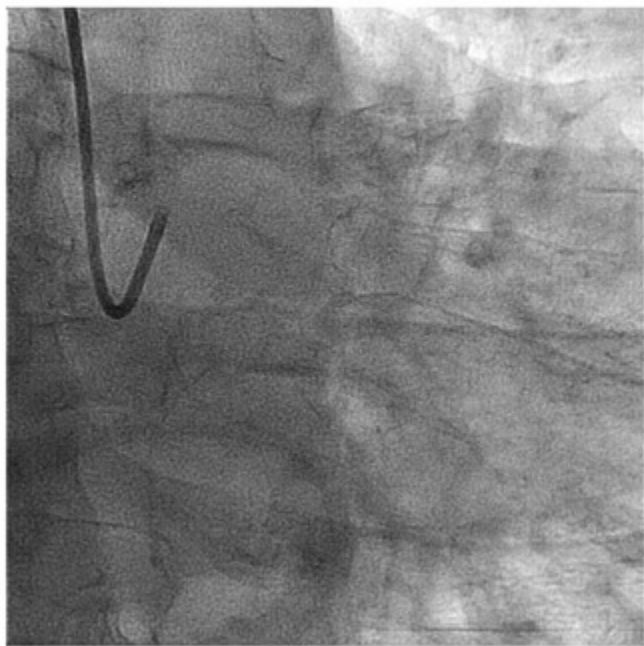
The angio cut-off value for (jailed) side branches is 75% DS

- DS < 75%: high NPV
- Reason:
 - radiographic artefact (white halo)
 - small branches, small myocardial mass, low flow
- Most likely idem with non-jailed SB
- Oedema? Like at day one after IMA implantations

- Besides the strategy, technical issues are now infrequent due to
 - Better knowledge of anatomy & plaque distribution
 - New hardware (wires, balloons)
 - Large cell stents
 - Bench testing of regular stents in bifurcation
- But there are still few challenges...

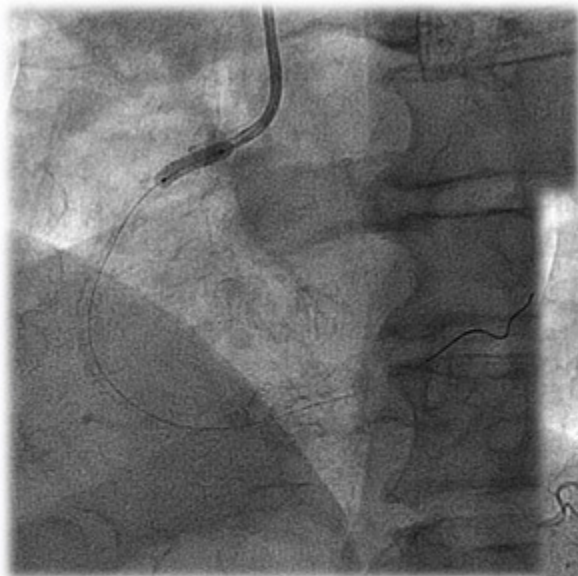
- 81 y active man
- HTN – Dyslipidemia – Former smoker
- Slowly progressive angina – CCS IV
- COPD
- EF 48% antero-lateral wall hypokinesia

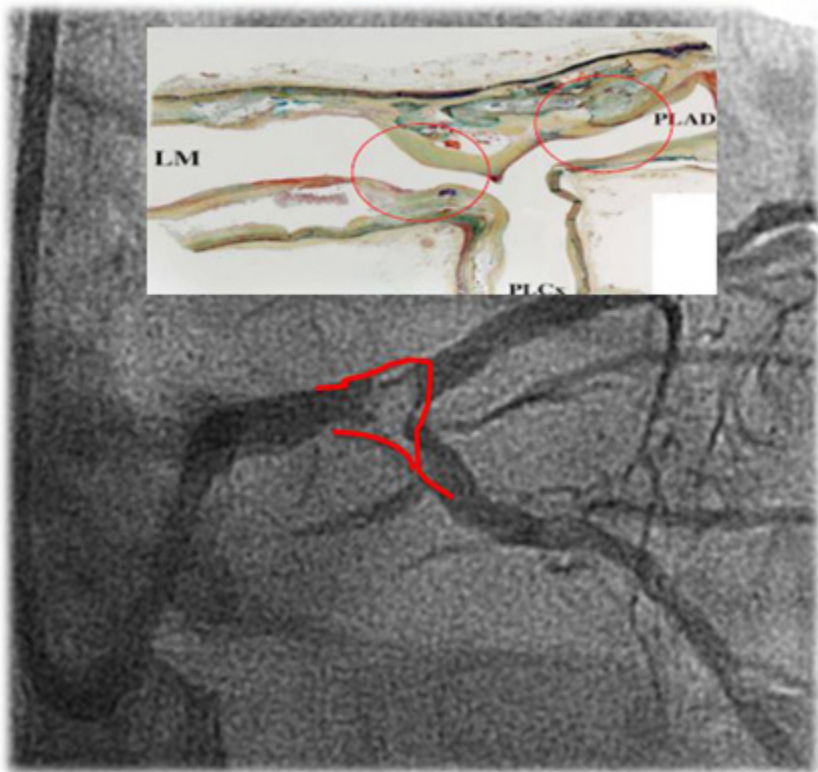




- Euroscore: 8.5 % (logistic)
- Syntax score: 24

- PCI or CABG?

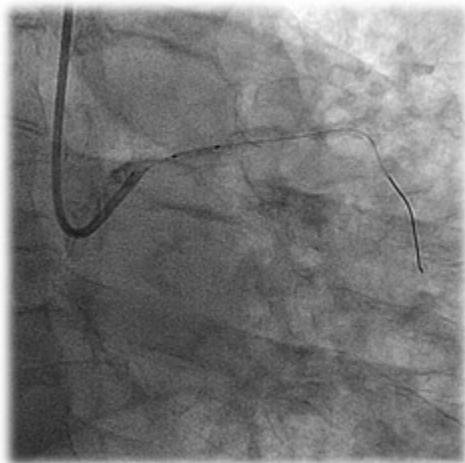


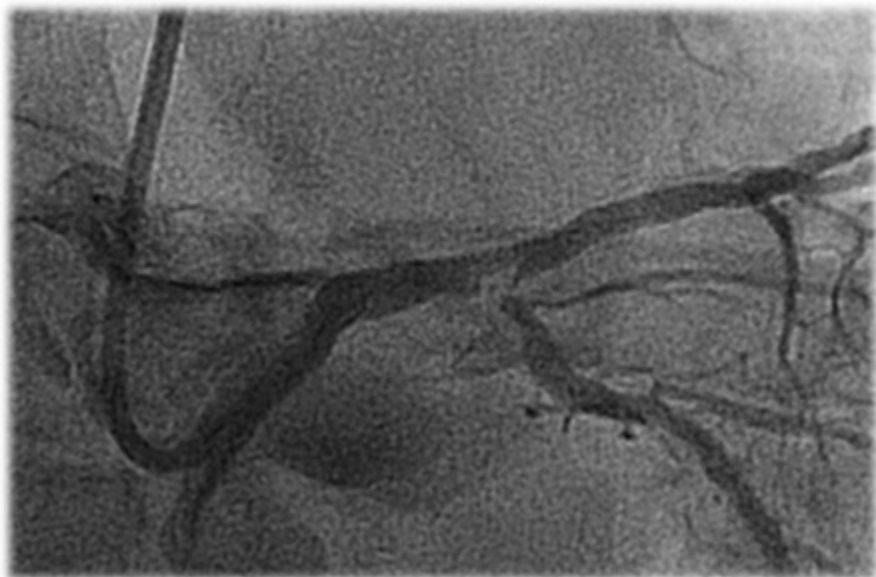


- Runthrough NS,
Fielder, Fielder XT,
Whisper, Miracle 3

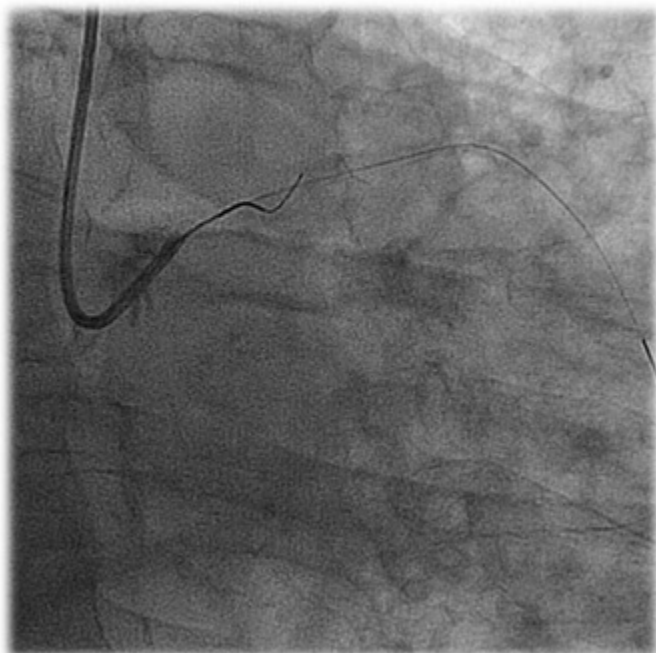


Create some room for wire handling?

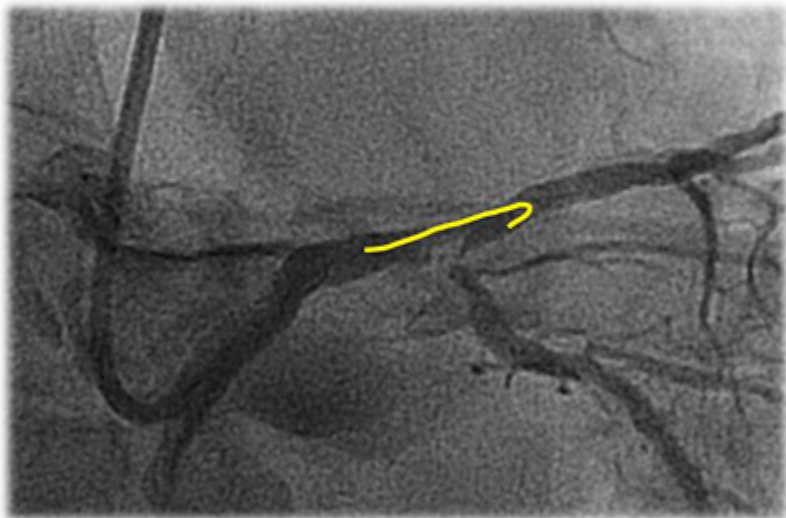




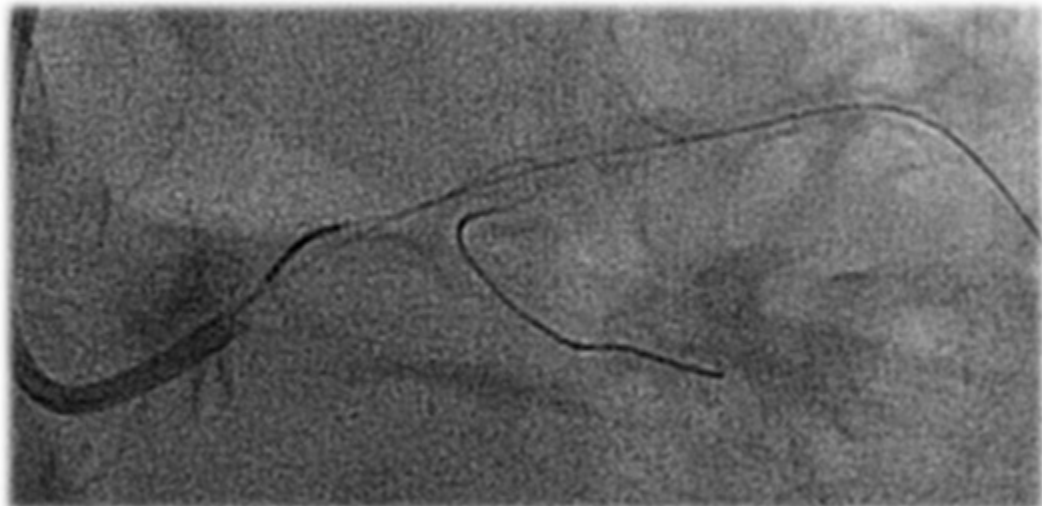
No way! A Venture*?

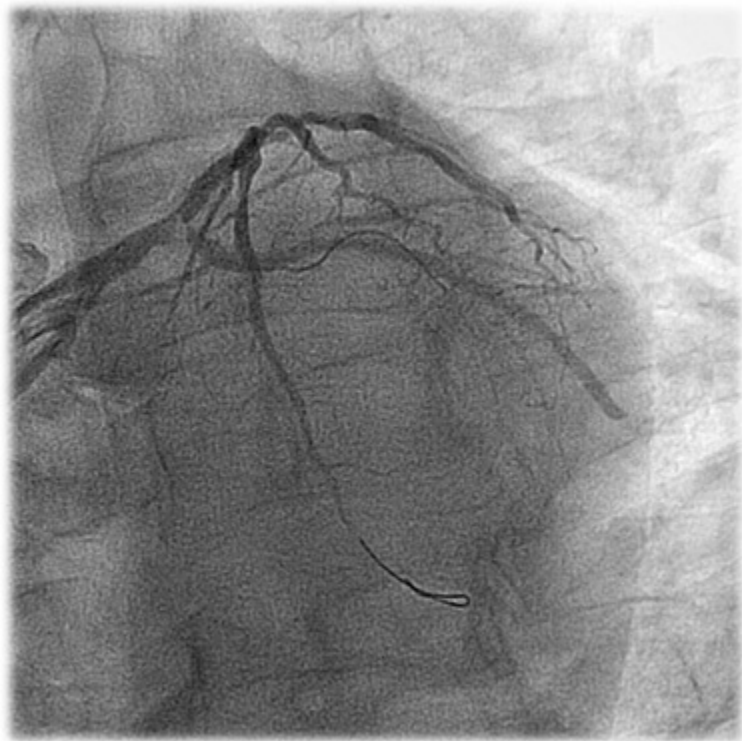


Loop with Venture

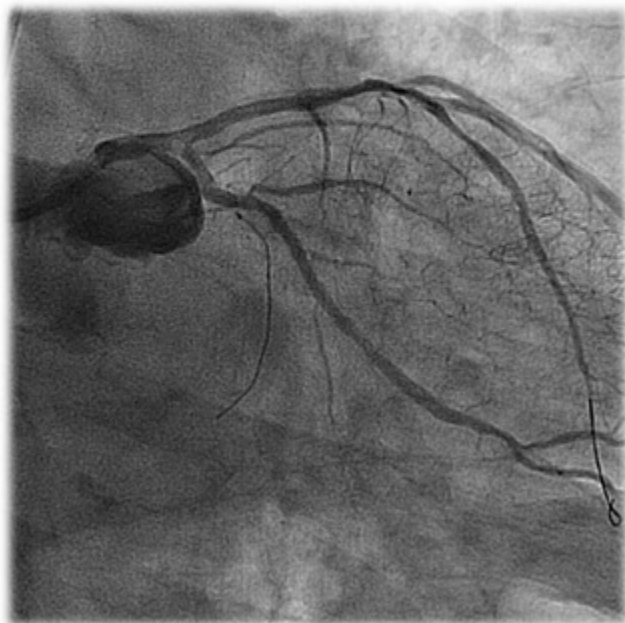


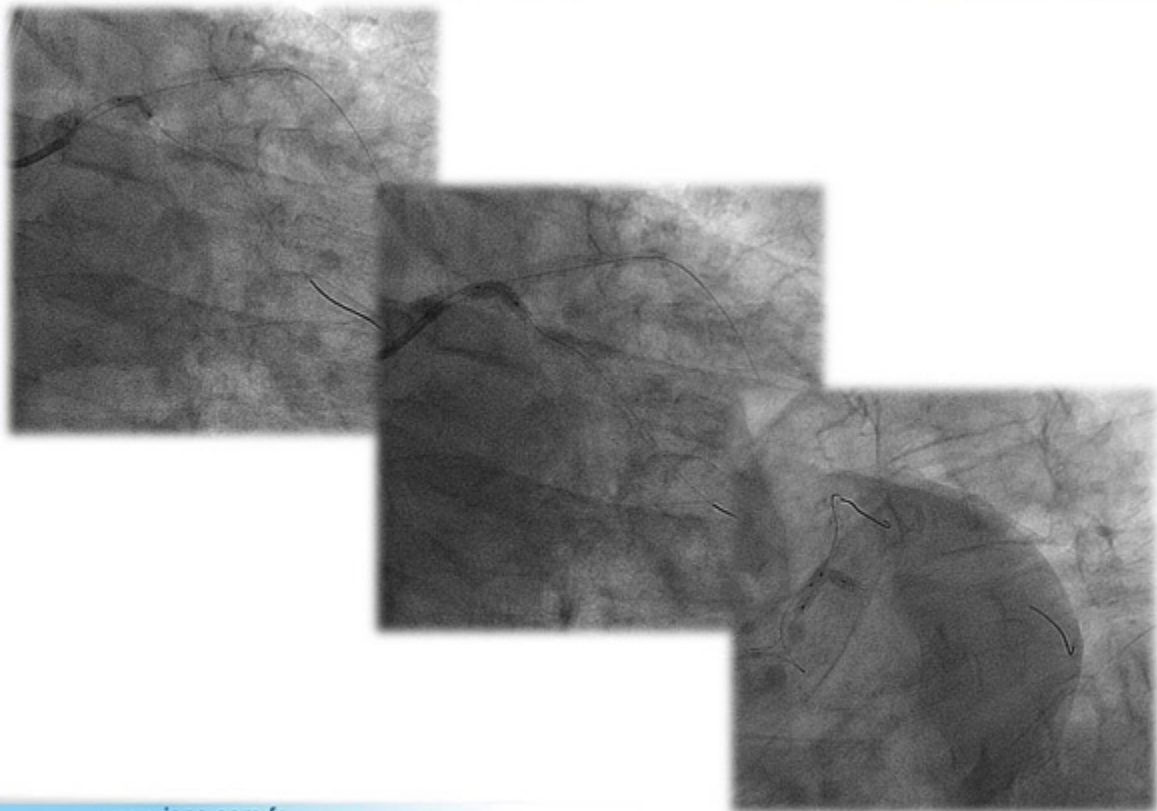
Whisper in a small SB

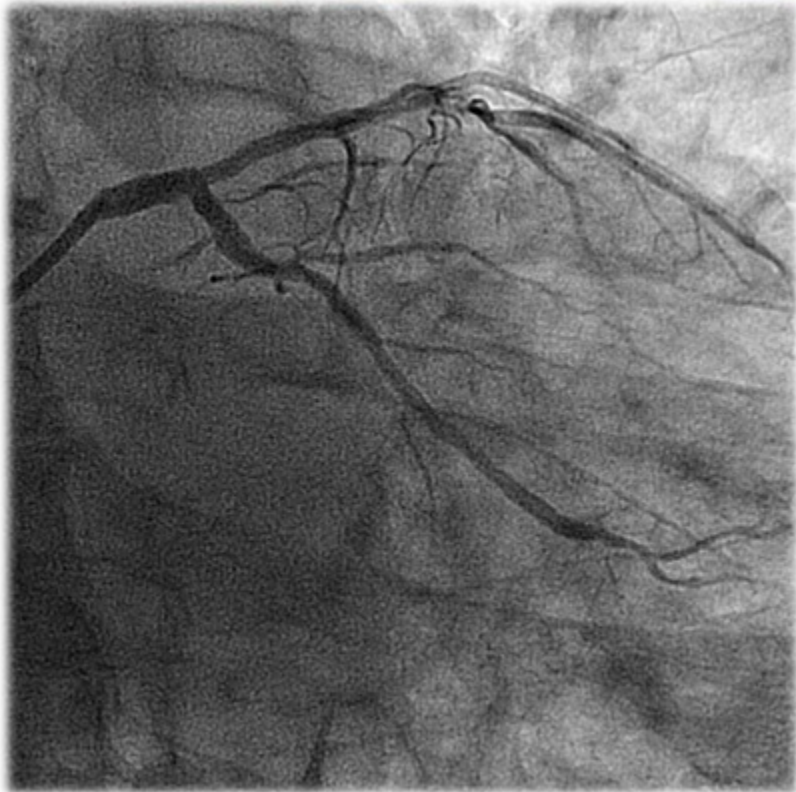




2 mm balloon + Finecross







Take home messages

- Analysis of plaque distribution in bifurcation is very important
- In non-accessible branch, careful & partial main branch debulking is an option
- In few cases, Venture* catheter plays a key role to make a PCI successful