



INSTITUT
CARDIOVASCULAIRE
PARIS
SUD

Non Left Main Bifurcation

Keep it open !

Thierry Lefèvre, Massy, France

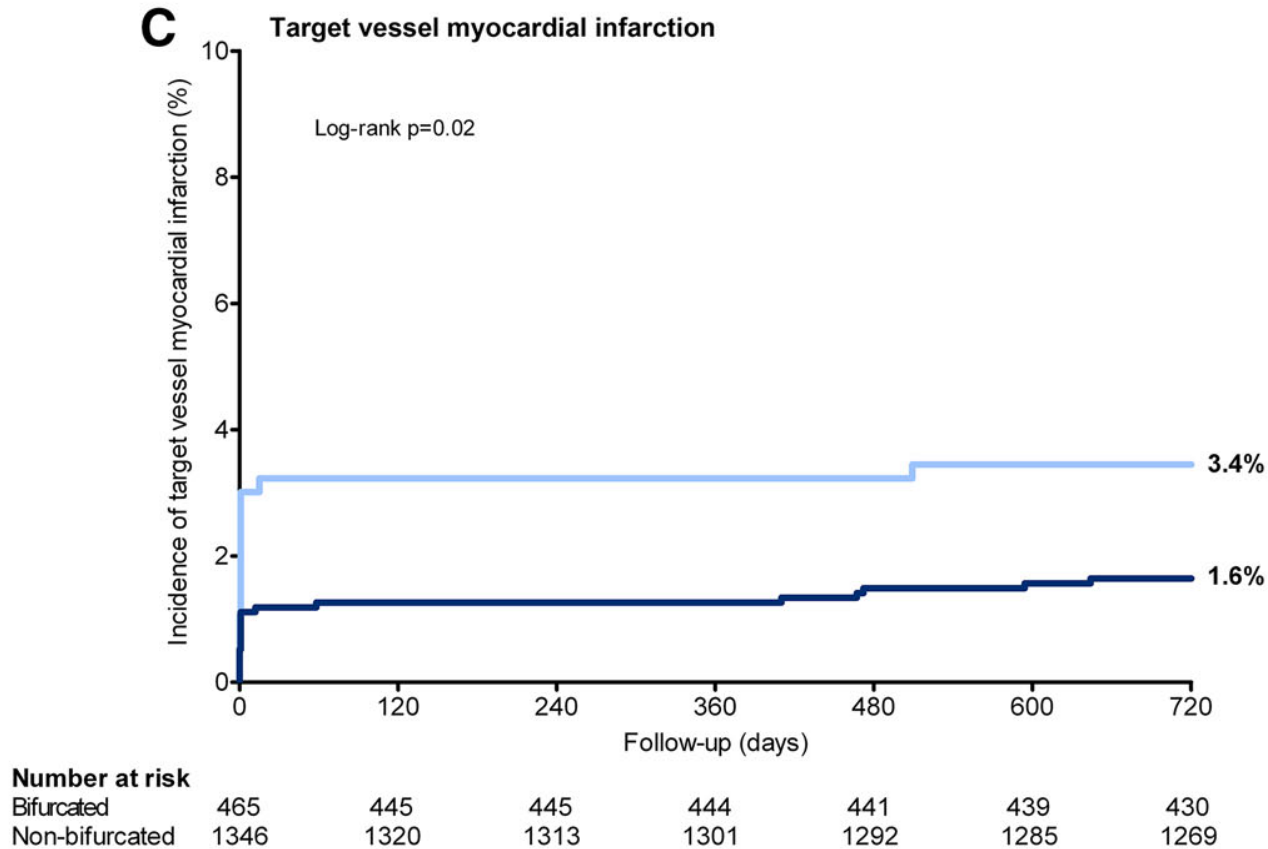


Two level of risk with the side branch

- ✓ Acute or subacute SB occlusion
- ✓ Significant residual ischaemia

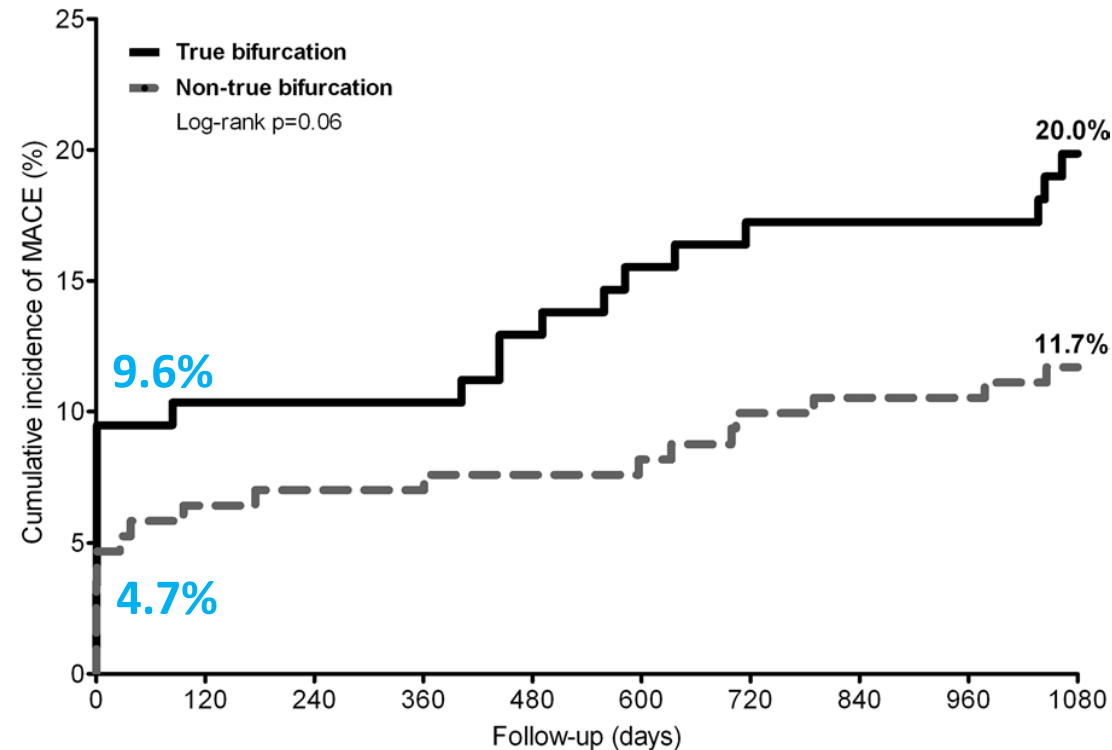
Periprocedural MI in Bifurcation vs non Bifurcation

Dutch Peers trial



Periprocedural MI in Bifurcation PCI

Twente trial



Number at risk		0	120	240	360	480	600	720	840	960	1080
True	116	104	104	104	101	98	96	95	95	95	92
Non-true	171	160	159	159	158	157	154	153	153	153	151

Keep it open to prevent periprocedural MI

Protect the SB that you don't want too loose with a wire !

- Decrease the risk of SB occlusion

- Good marker of the SB ostium

- Facilitates SB access

- The jailed wire can be used to reopen the SB

Respect the fractal low to avoid carena shifting

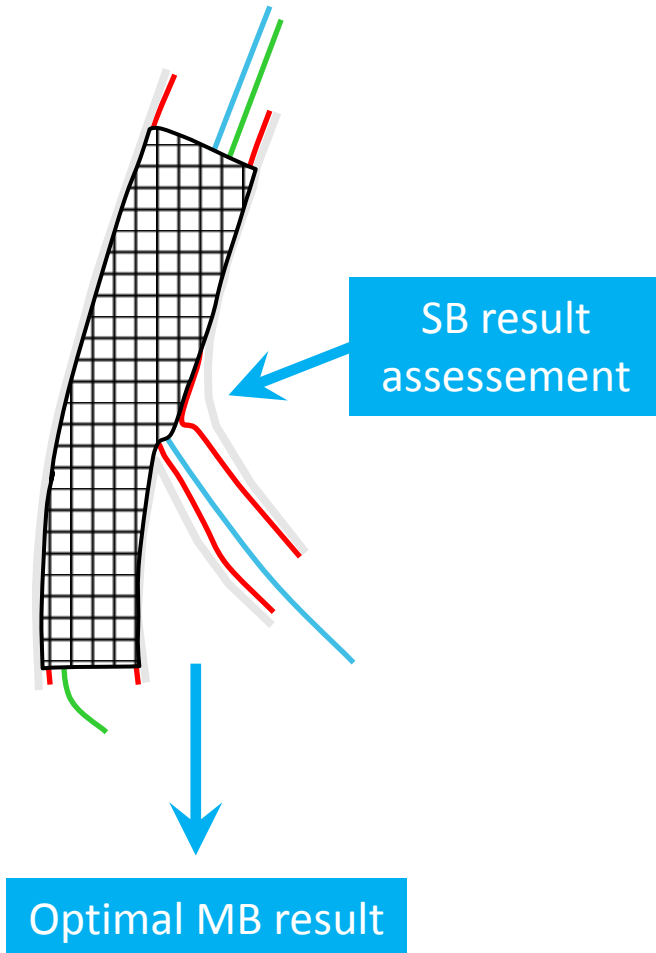
Keep it open is part of the provisional strategy

MB and SB wiring

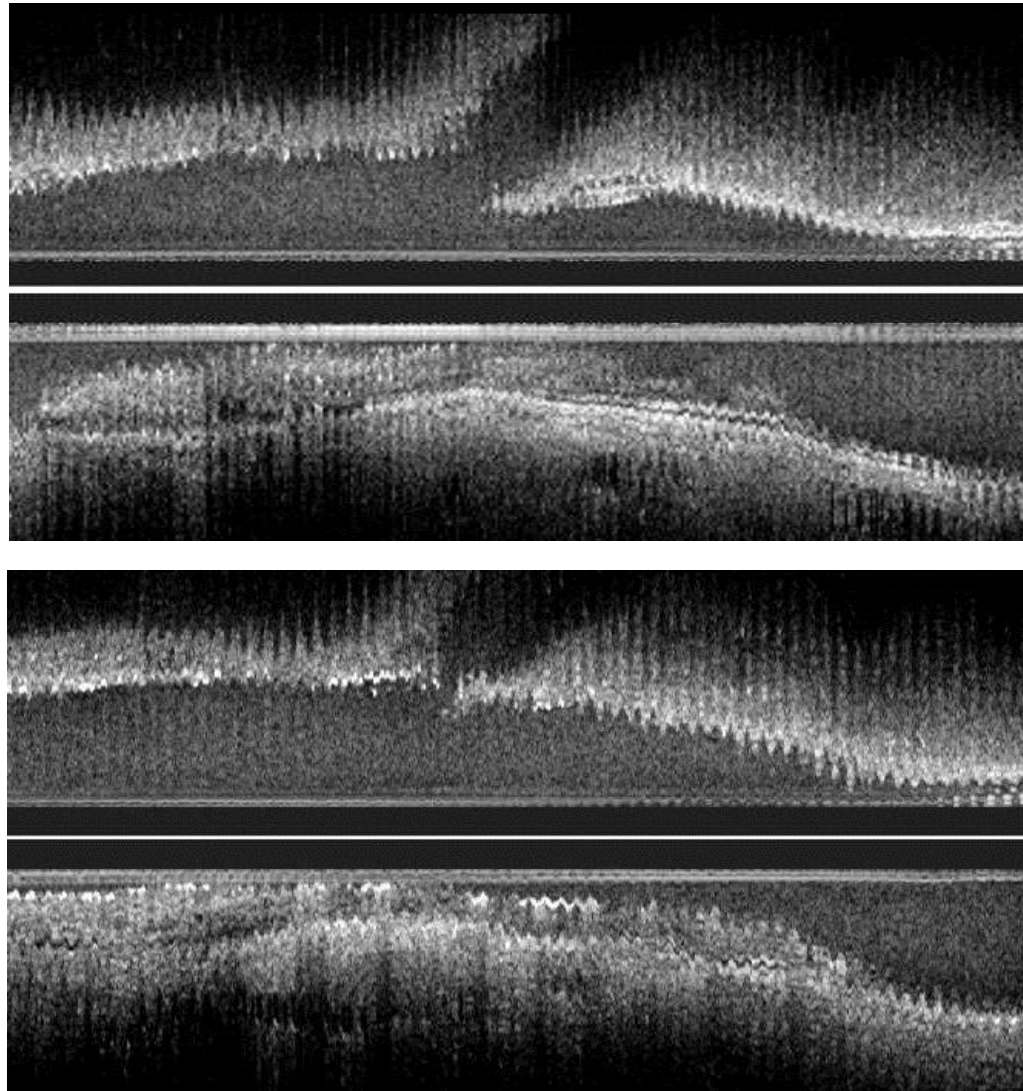
MB stenting

(sizing according to distal MB diameter)

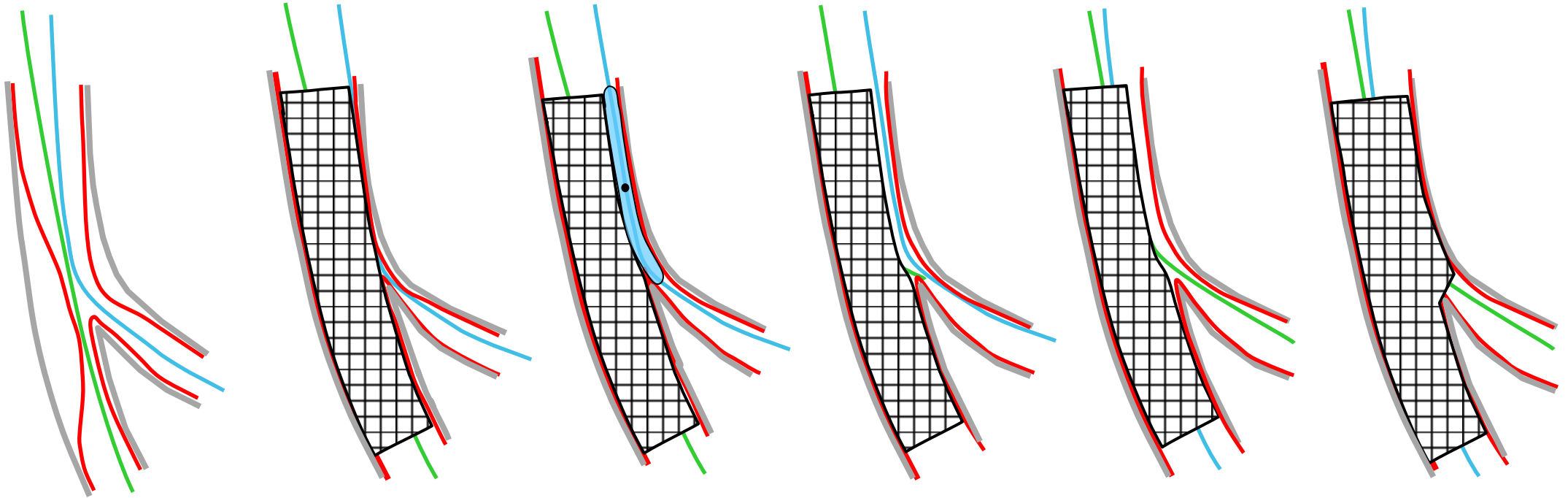
POT



Respect the anatomy



How to save the SB in case of occlusion



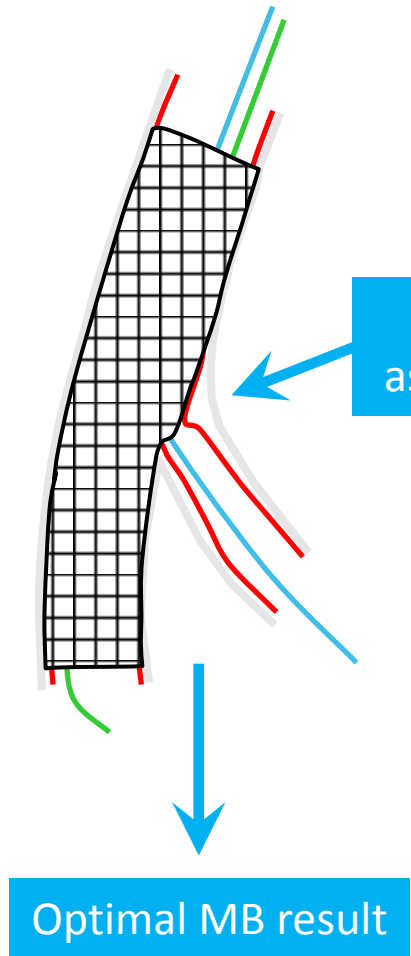
Keep it open is part of the provisional strategy

MB and SB wiring

MB stenting

(sizing according to distal MB diameter)

POT



SB result
assessment

Result obtained in the SB accepted
(*keep-it-open principle*)

jailed SB deserving further intervention

SB rewiring

(aimed at achieving *distal rewiring*)

SB dilation
kissing balloon

SB dilation
kissing balloon
and re-POT

SB dilation
re-POT

SB result assessment

OK

SB stenting (<10%)

**The remaining question is
when to open the SB after MB stenting?**

Because of relevance or for long-term outcomes ?

Relevance

A branch that may be source of ischemia > 10% of the myocardium after the procedure:

FFR/IFR

SB > 2.25 mm

Long SB > 73 mm

....

Because of relevance or for long-term outcomes ?

Long-term outcomes

Reposition the carena in the center

Give further access to the SB that may stented in the future

Avoid endothelial colonisation of the unopened cells

In daily practice

- ✓ We always start with two wires (or more)
- ✓ Assess the side branch relevance
- ✓ When it is relevant we always open the MB stent toward the side branch (aiming at crossing a distal cell)
- ✓ End the procedure with a final Kiss
- ✓ When in doubt use FFR and stent the SB when necessary

Conclusion

Keep it open is part of the provisional side branch stenting strategy.

Protect the SB if you don't want to loose it (> 1.5 mm ?)

Optimizing MV stenting is far more important than correcting angiographic appearance of the side branch.

MB stent sizing (distal ref.) and POT is a nice way to avoid carena shifting

POT/Kiss relocate the carena as a flow divider and gives access to the SB

Think twice (area of myocardium and IFR/FFR) before stenting the side branch