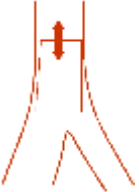
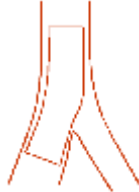

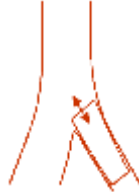
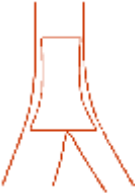

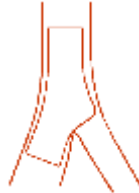
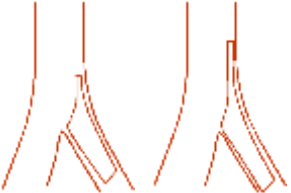
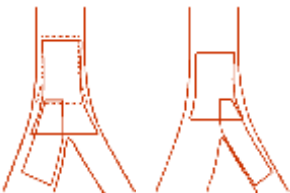
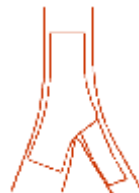
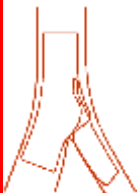
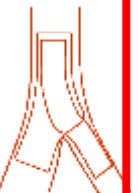
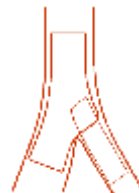
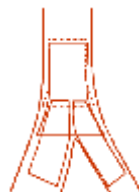



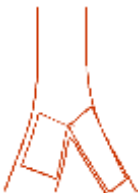

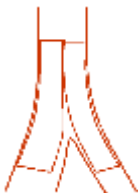

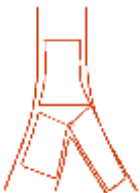



Precise stent positioning in bifurcation stenting

MC. Morice, ICPS, Massy, Générale
de Santé, France
TCTAP 2015

Precise stent positioning in bifurcation stenting

Nothing to disclose

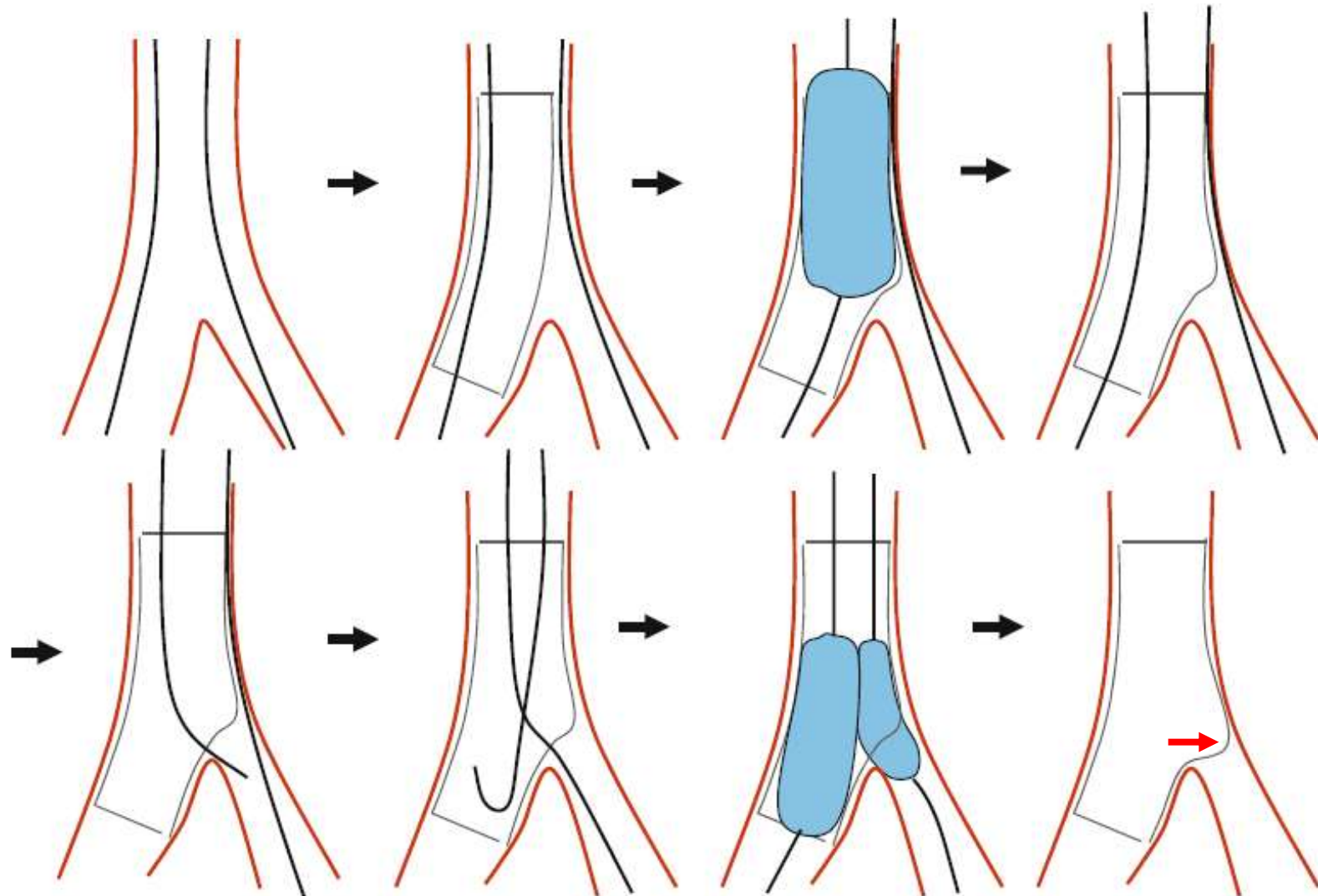
	M Main prox. first	A Main A cross side first	D Distal first	S Side branch first	
1st stent	 PM stenting	 MB stenting across SB	 DM stenting Provisional SKS	 SB ostial stenting	
After balloon	 Skirt	 MB stenting + SB balloon	 MB stenting + kissing	 SB minicrush SB crush	
2 stents	 Skirt + DM Skirt + SB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

T-stenting history

1. Carrie D, Karouny E, Chouairi S, et al. **"T"-shaped stent** placement: a technique for the treatment of dissected bifurcation lesions. *Cathet Cardiovasc Diagn.* 1996;37:311-3.
1. Kobayashi Y, Colombo A, Akiyama T, et al. **Modified "T" stenting**: a technique for kissing stents in bifurcational coronary lesion. *Cathet Cardiovasc Diagn* 1998;43:323-6.
1. Colombo A, Stankovic G, Orlic D, Corvaja N, Liistro F, Airolidi F, Chieffo A, Spanos V, Montorfano M, Di Mario C. **Modified T-stenting technique with crushing** for bifurcation lesions: immediate results and 30-day outcome. *Catheter Cardiovasc Interv.* 2003 Oct;60(2):145-51.
2. Lefevre T, Louvard Y, Morice MC, et al. Stenting of bifurcation lesions: a rational approach. *J Interv Cardiol* 2001;14:573-85.
3. Burzotta F, Gwon HC, Hahn JY, Romagnoli E, Choi JH, Trani C, Colombo A. Modified T-stenting with intentional protrusion of the side-branch stent within the main vessel stent to ensure ostial coverage and facilitate final kissing balloon: the T-stenting and small protrusion technique (**TAP-stenting**). Report of bench testing and first clinical Italian-Korean two-centre experience. *Catheter Cardiovasc Interv.* 2007 Jul 1;70(1):75-82.

Provisional strategy: elective T / TAP interest of stent enhancement

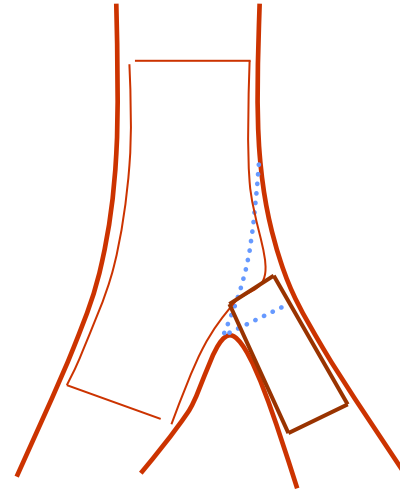
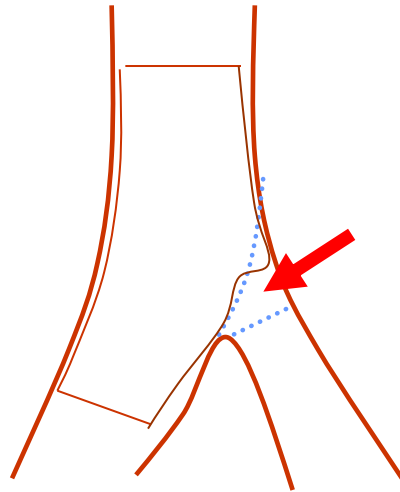
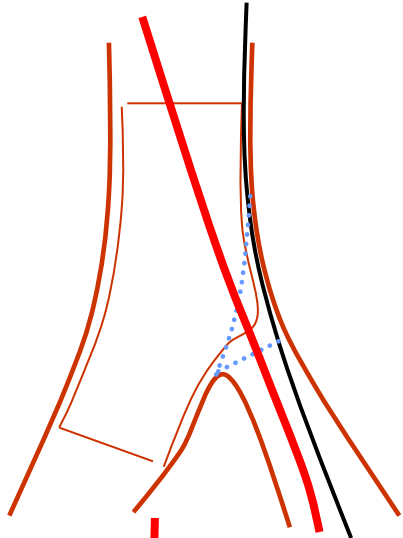
Provisional T stenting



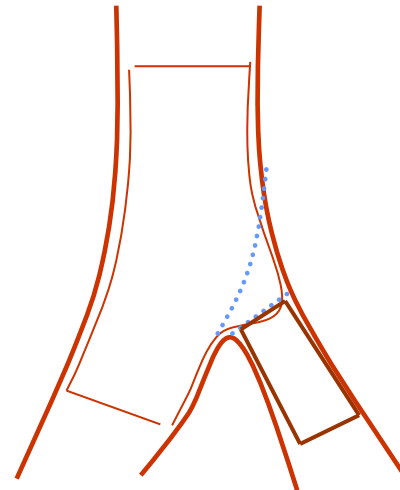
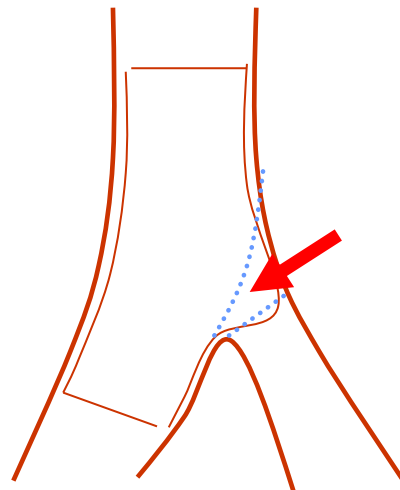
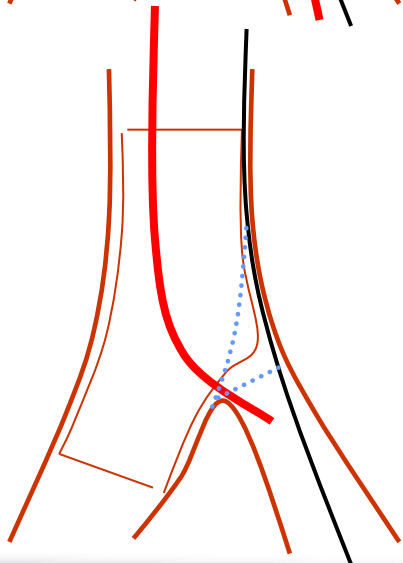
T or TAP ?

SB recrossing

Post kissing

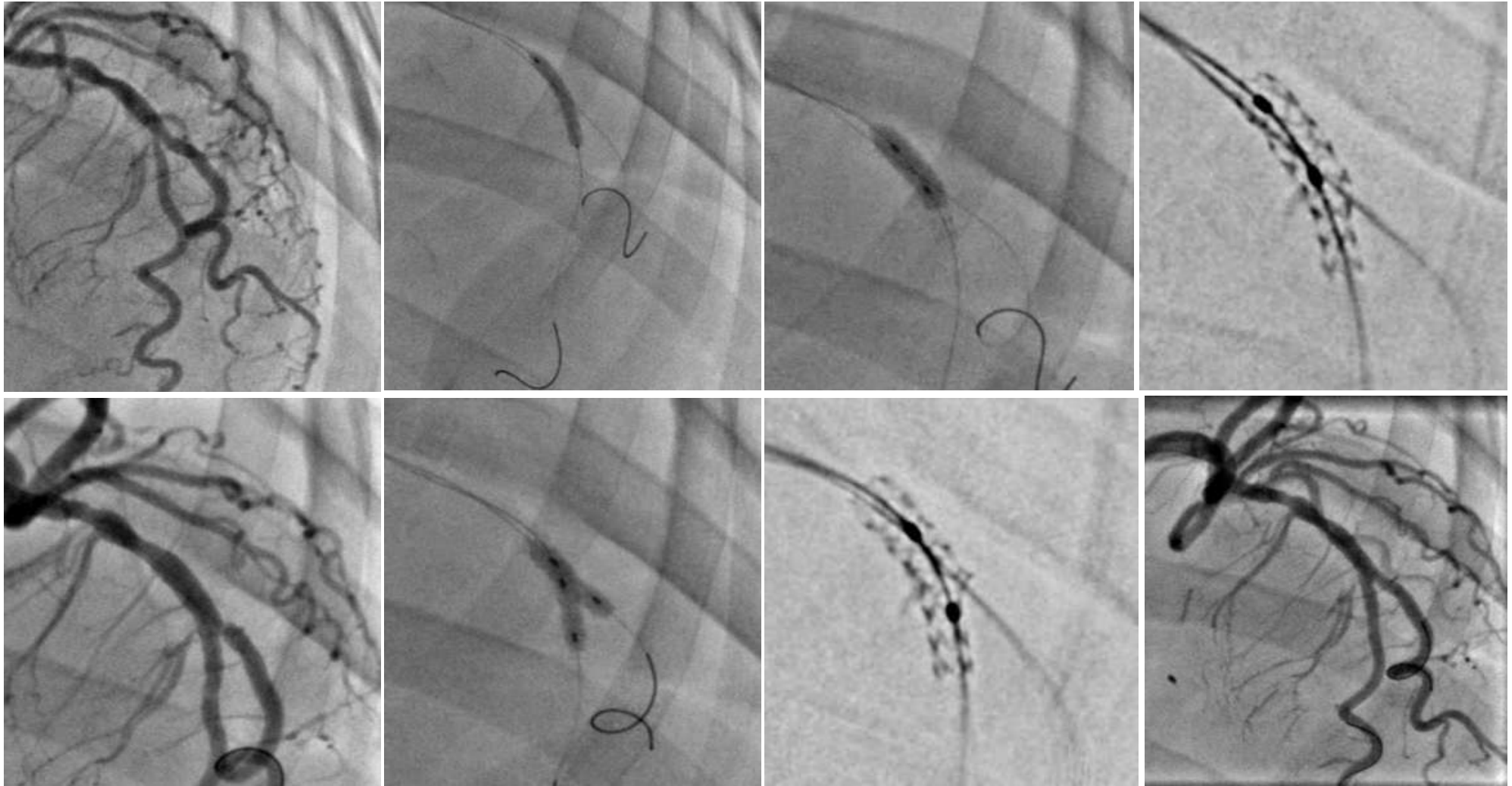


→ TAP



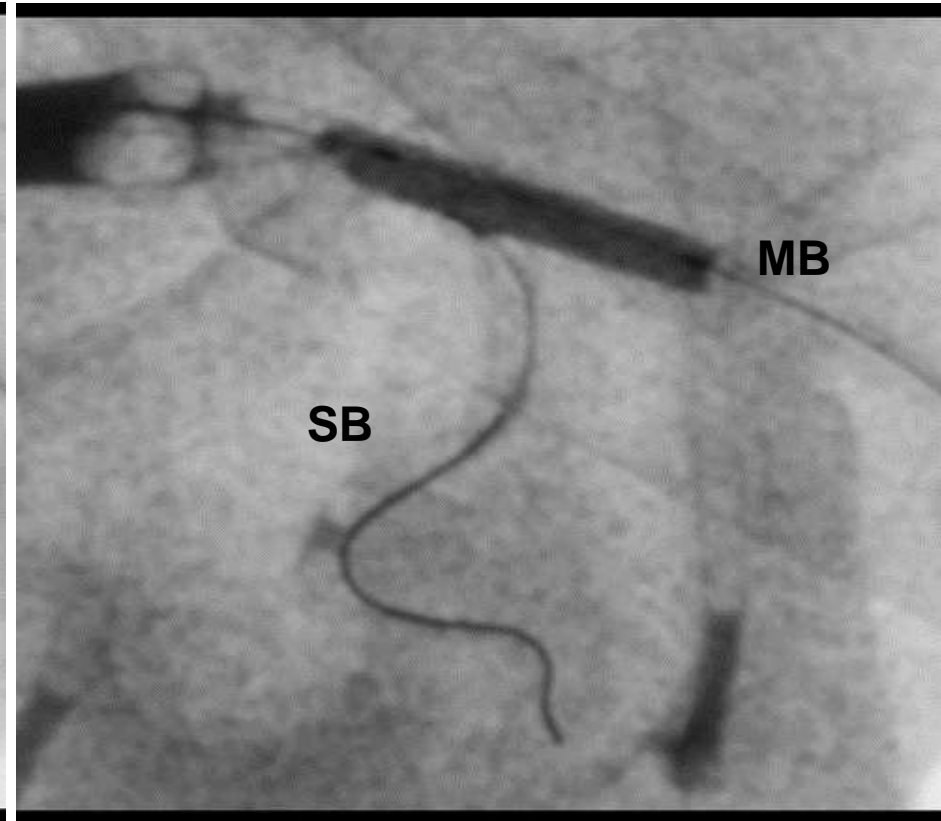
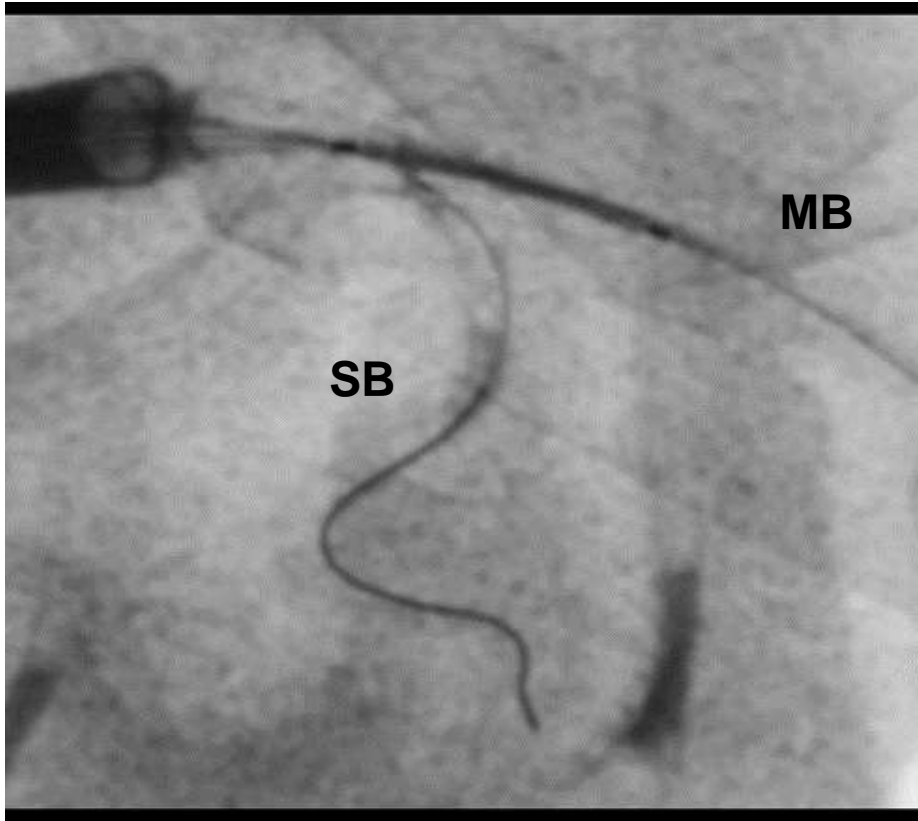
→ T

Provisional T stenting

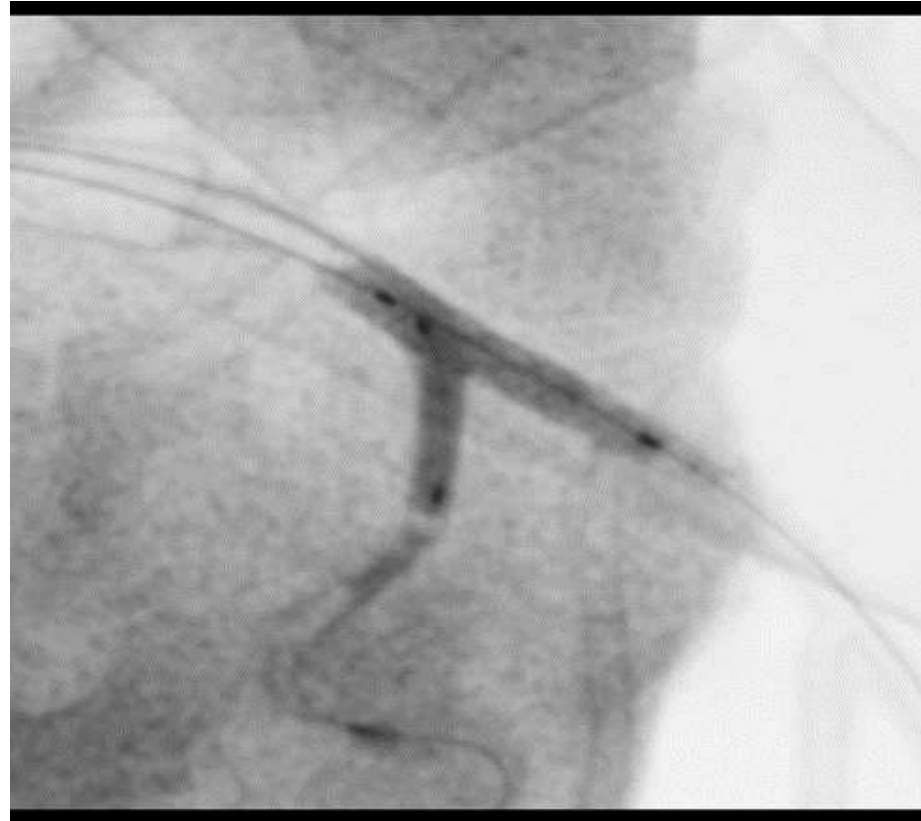


TAP

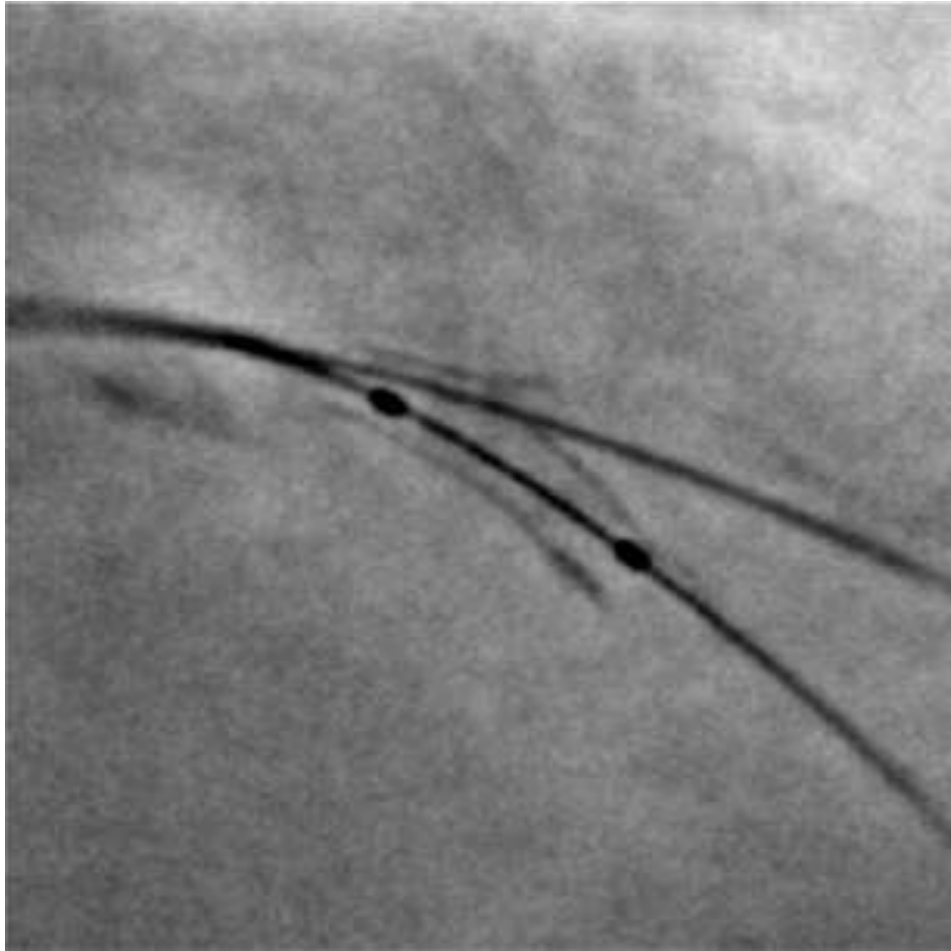
Step 1: stenting on MB with jailed guidewire on SB



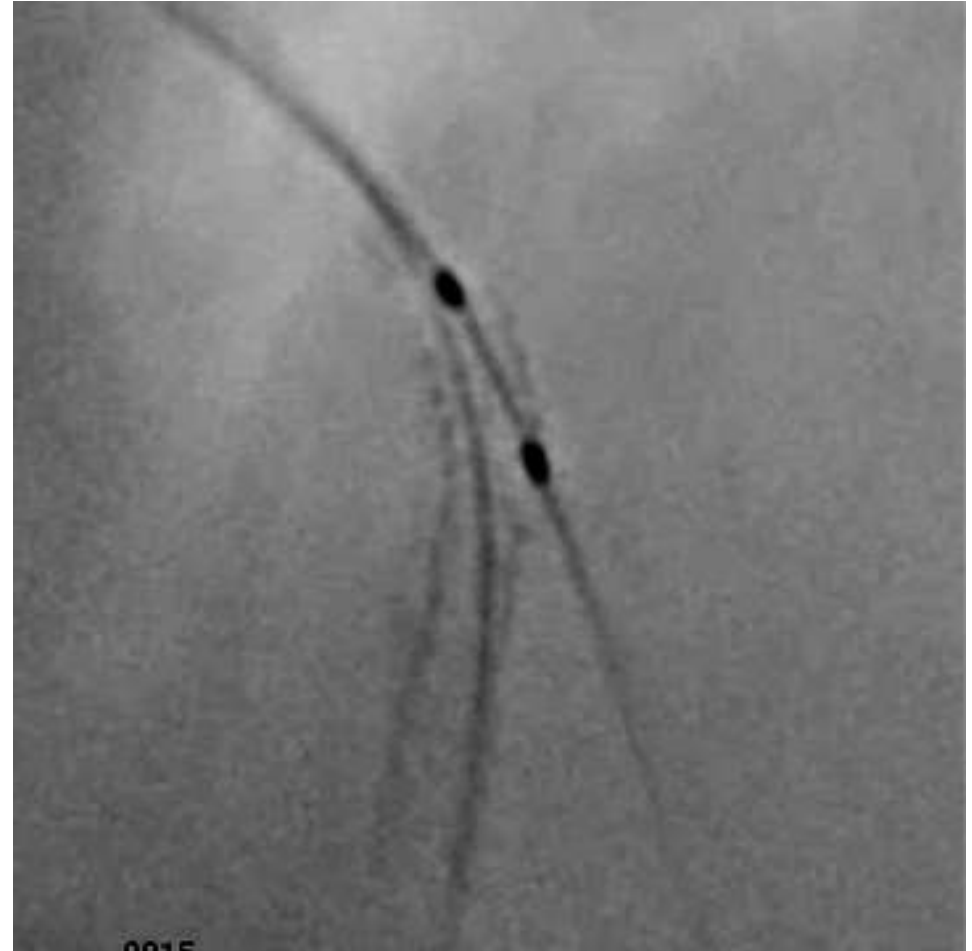
Step 2: Kissing on MB and SB after rewiring of the SB (according to Provisional T-stenting strategy)



T or TAP ? (stent boost)

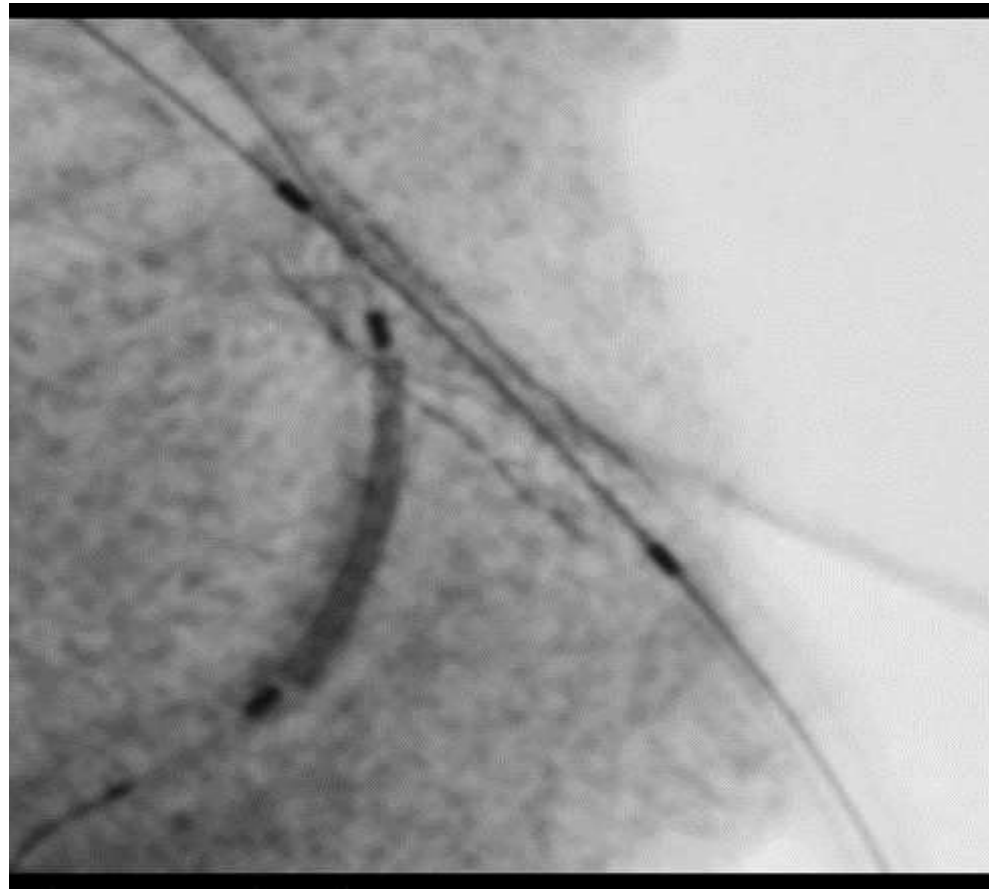


↓
T



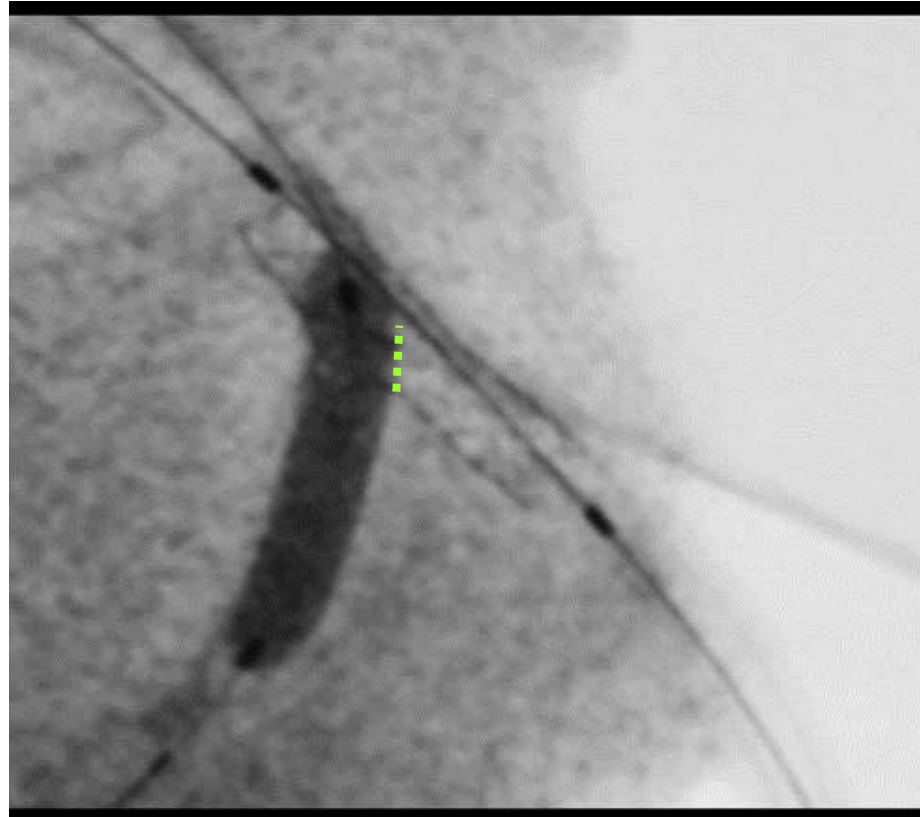
↓
TAP

Step 3: Placement of the stent on the SB with uninflated balloon on MB ready for final kissing balloon



TAP

Step 4: Inflation of the stent on the SB with uninflated balloon on MB ready for final kissing balloon



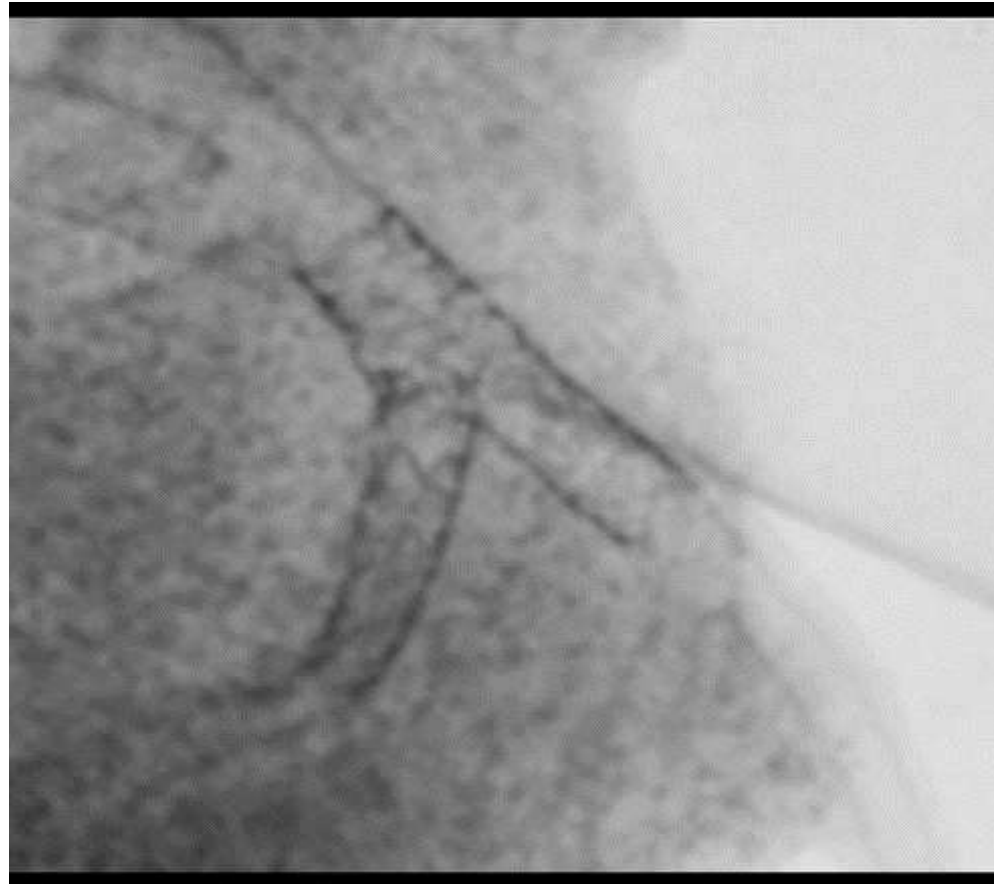
Step 5: The balloon of the SB stent is slightly pulled within the MB to perform kissing balloon inflation



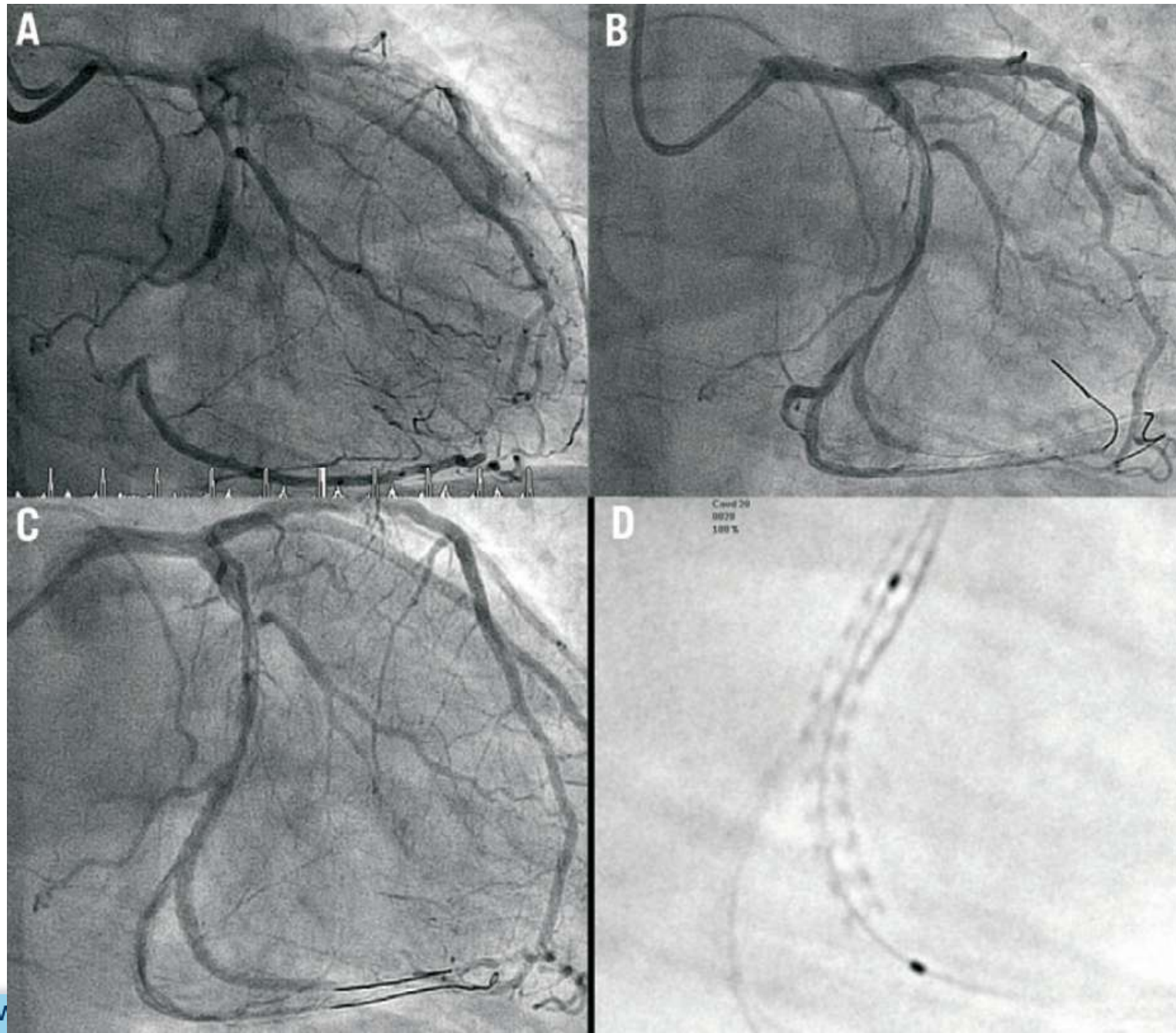
Step 6: Final kissing balloon of the bifurcation with the SB stent's balloon and the MB balloon

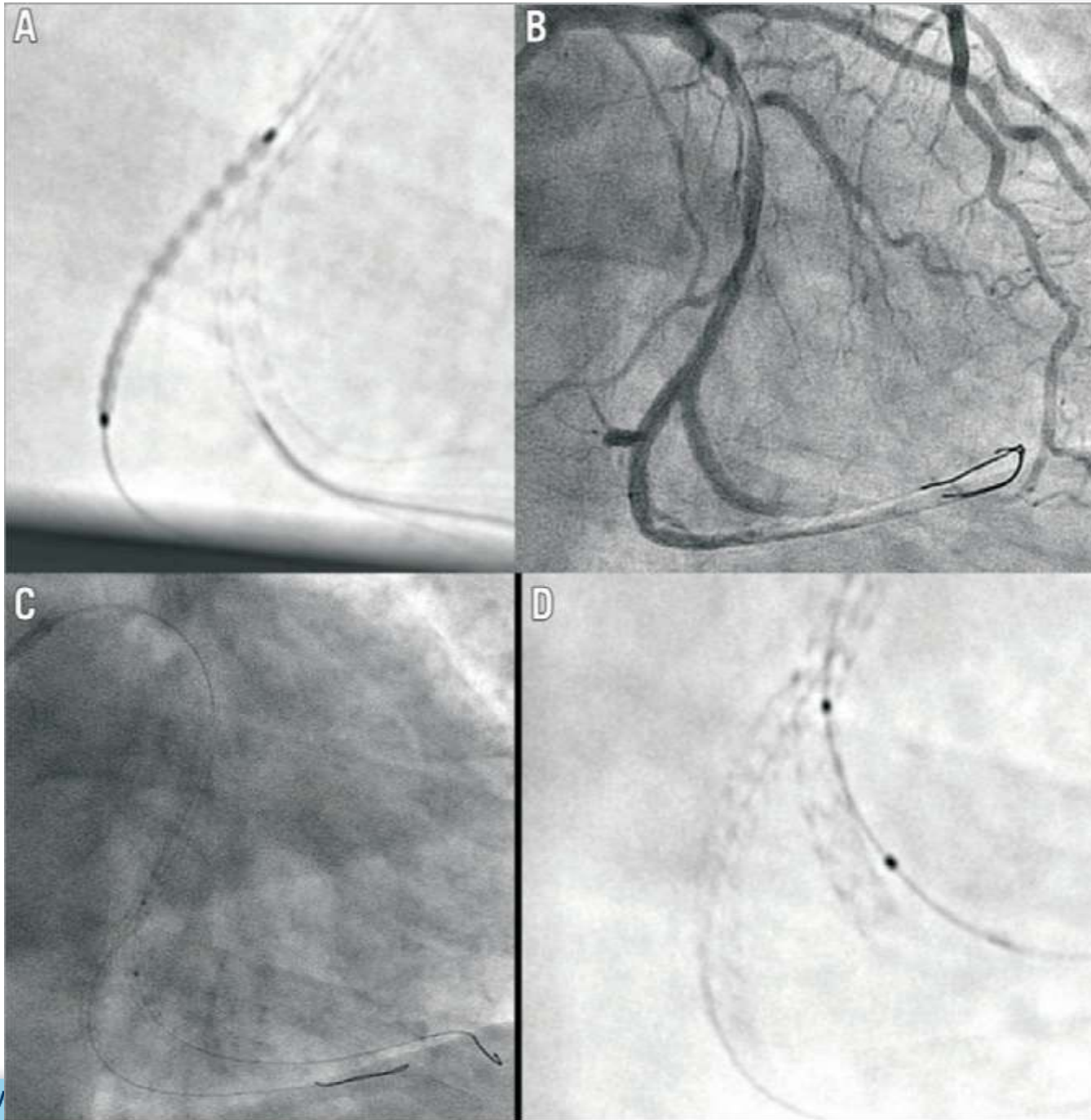


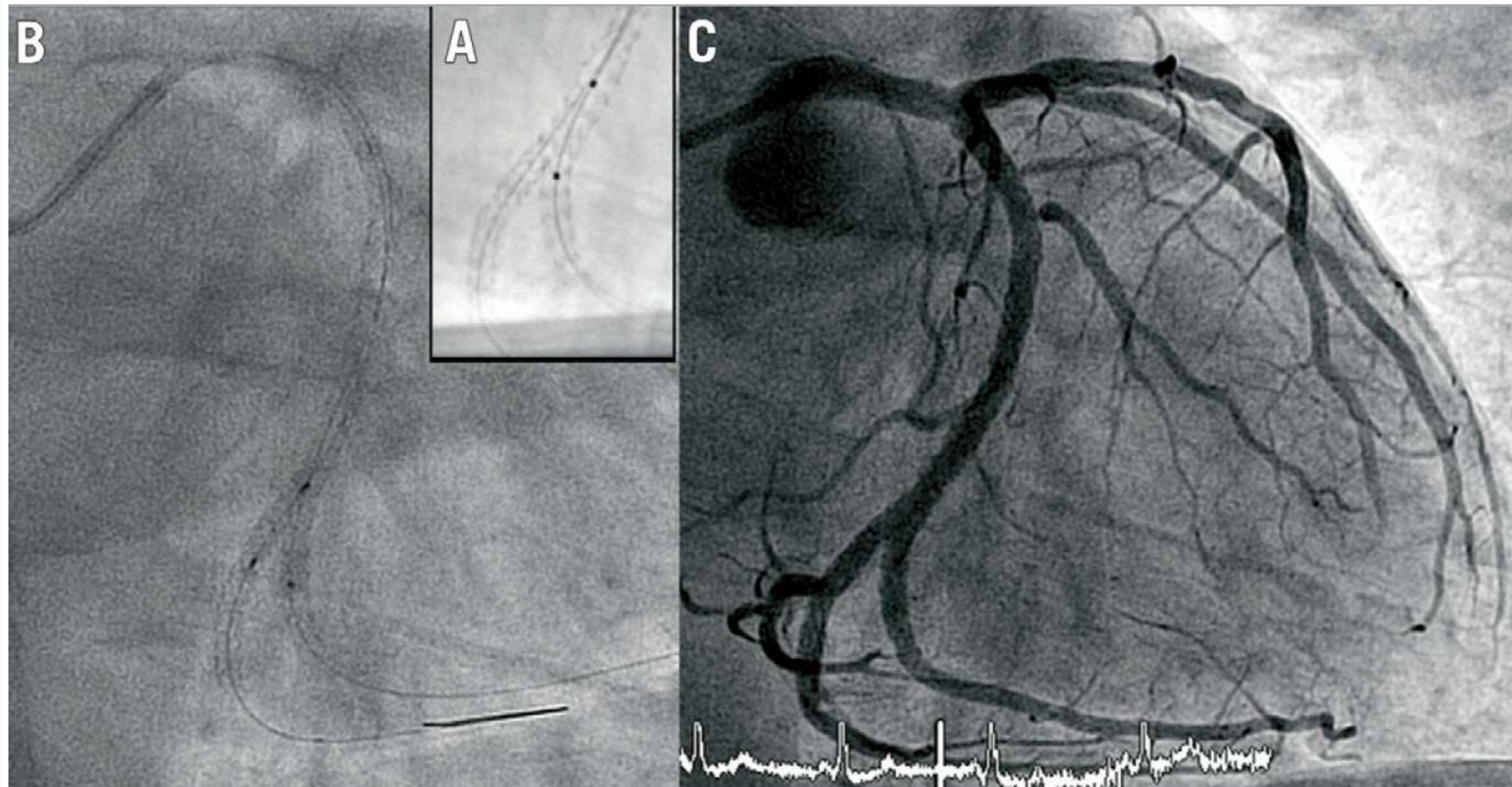
Final result



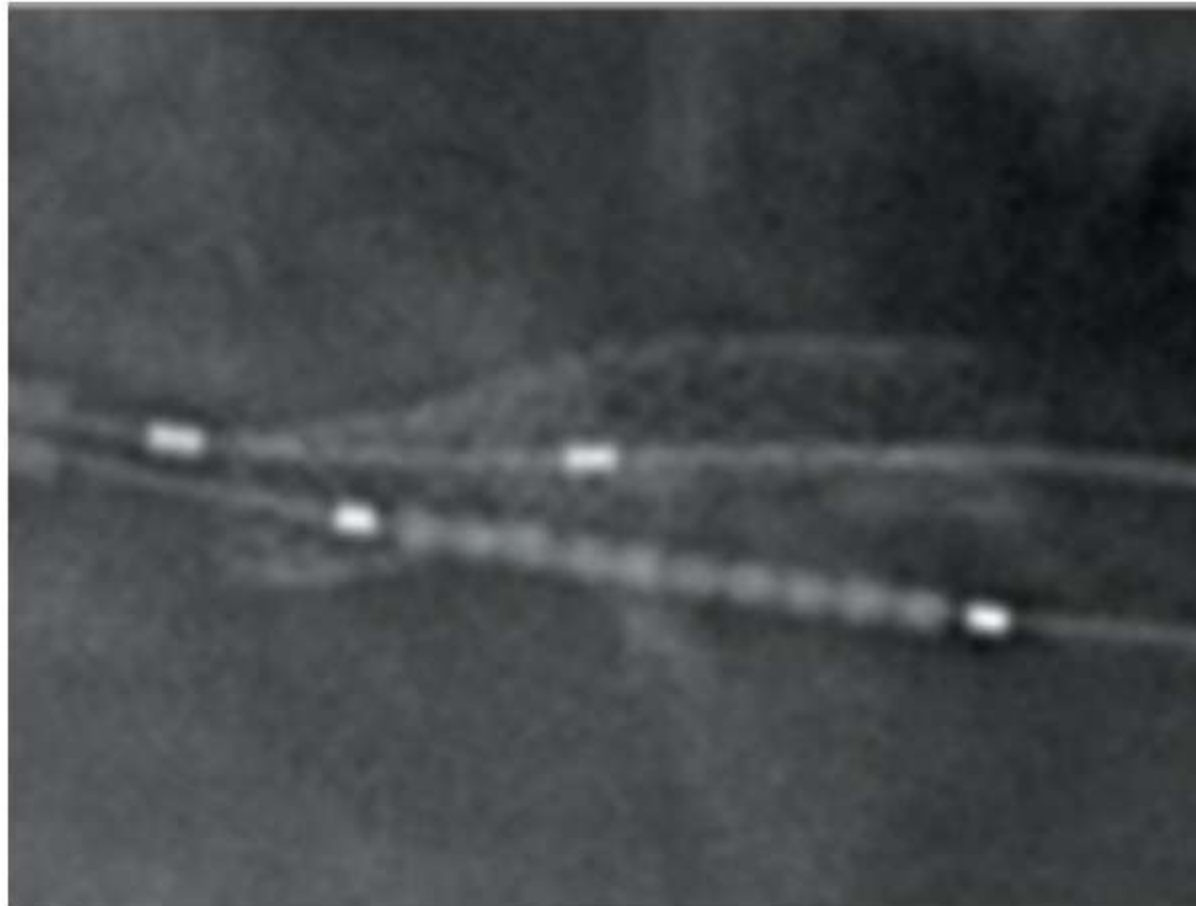
Other advantages of stent enhancement; avoid mistakes







Stent enhancement usefull for any 2 stent technique

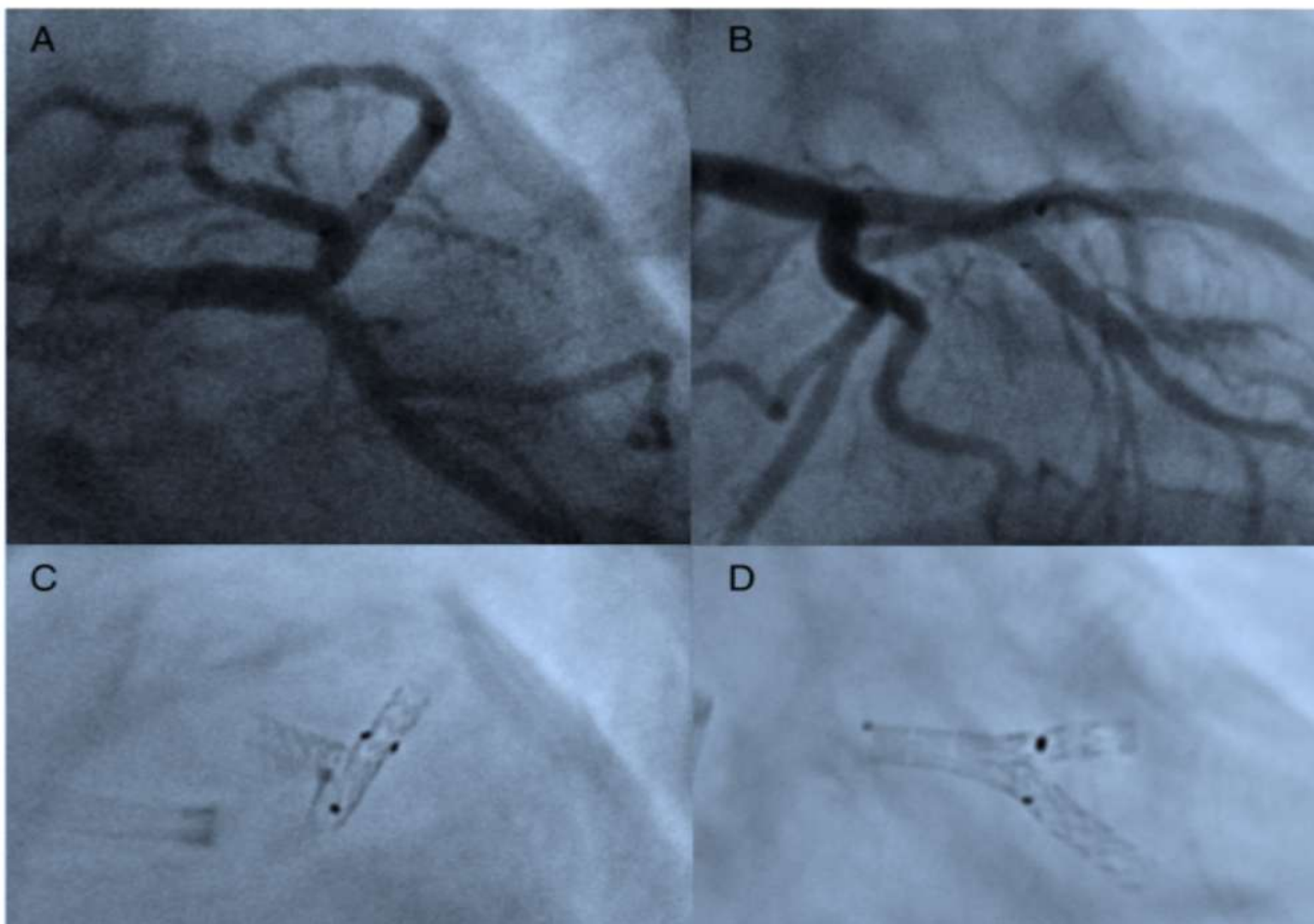


Reverse crush

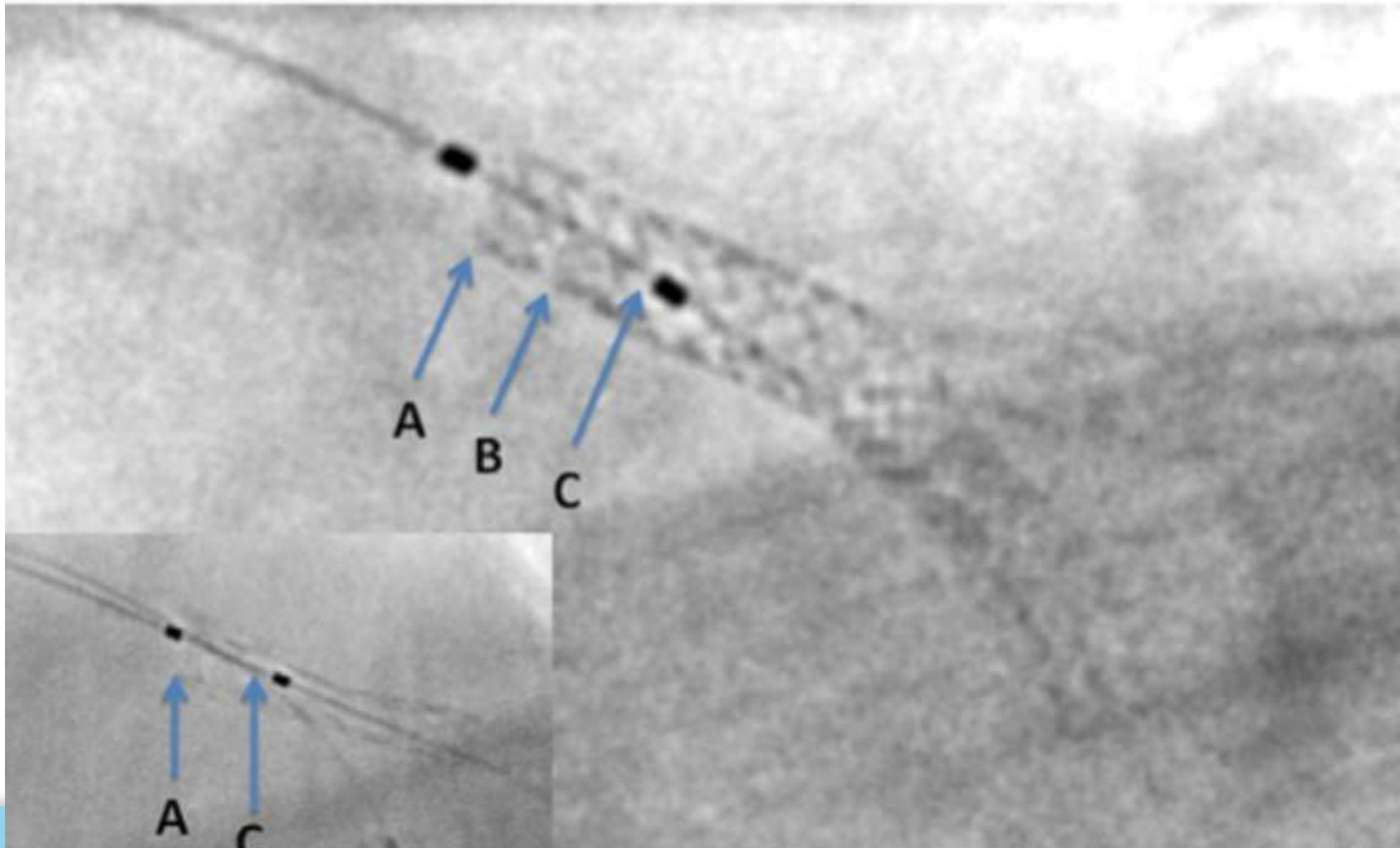
Also for dedicated stents



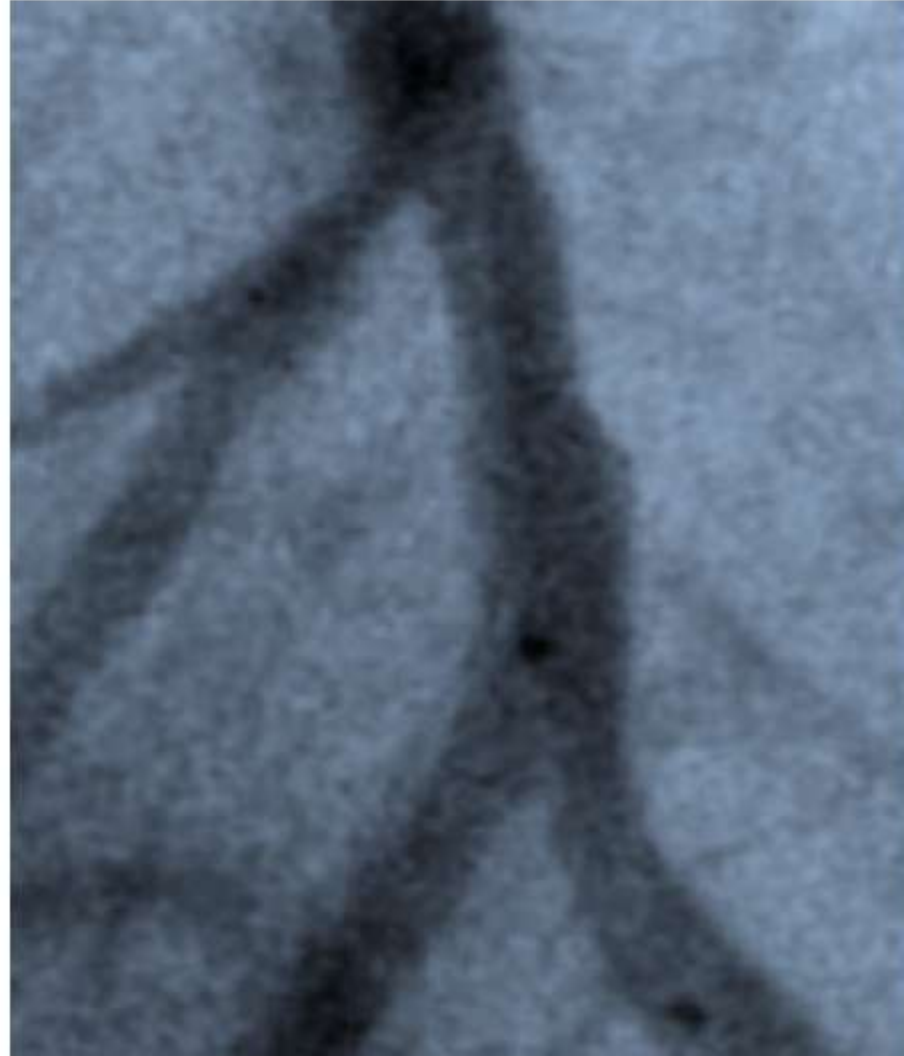
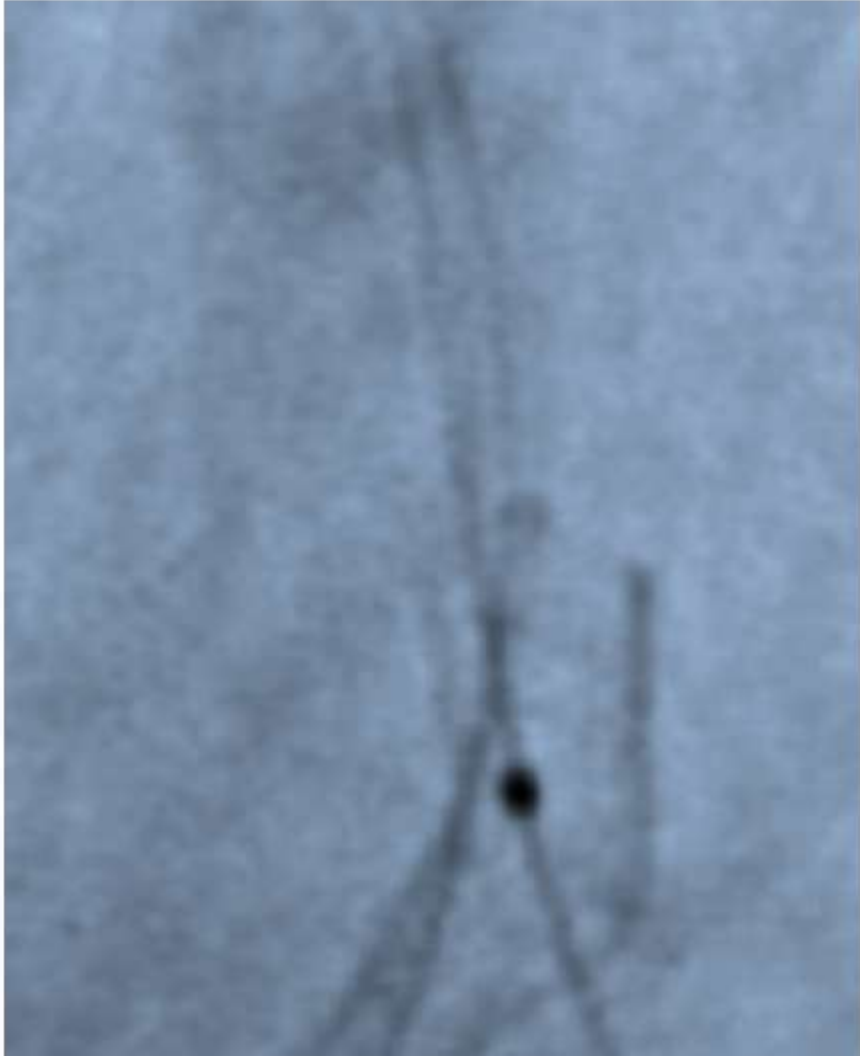
Axxess™ stent



TRYTON stent



Stentys™ stent



Conclusion

- Precise positionning of the stent(s) is crucial for the outcome of the treatment of a bifurcation lesion, zoom, collimation help to see better
- Stent enhancement is a real must to be precise in stent positionning, specially when using complex techniques, and for the selection of the 2 stent technique to use
- Other imaging modality (OCT, IVUS) help to assess and optimise the result
But not for positionning