
Bifurcational Stenting The Simpler the better ??

No side branch touch ?

No More Routine Kiss !

Examples and some considerations

Jacques Koolen

Catharina Hospital Eindhoven
The Netherlands

No conflict of Interest

Bifurcation Lesion Stenting

Impact of Stent Geometry

and

Technique

on

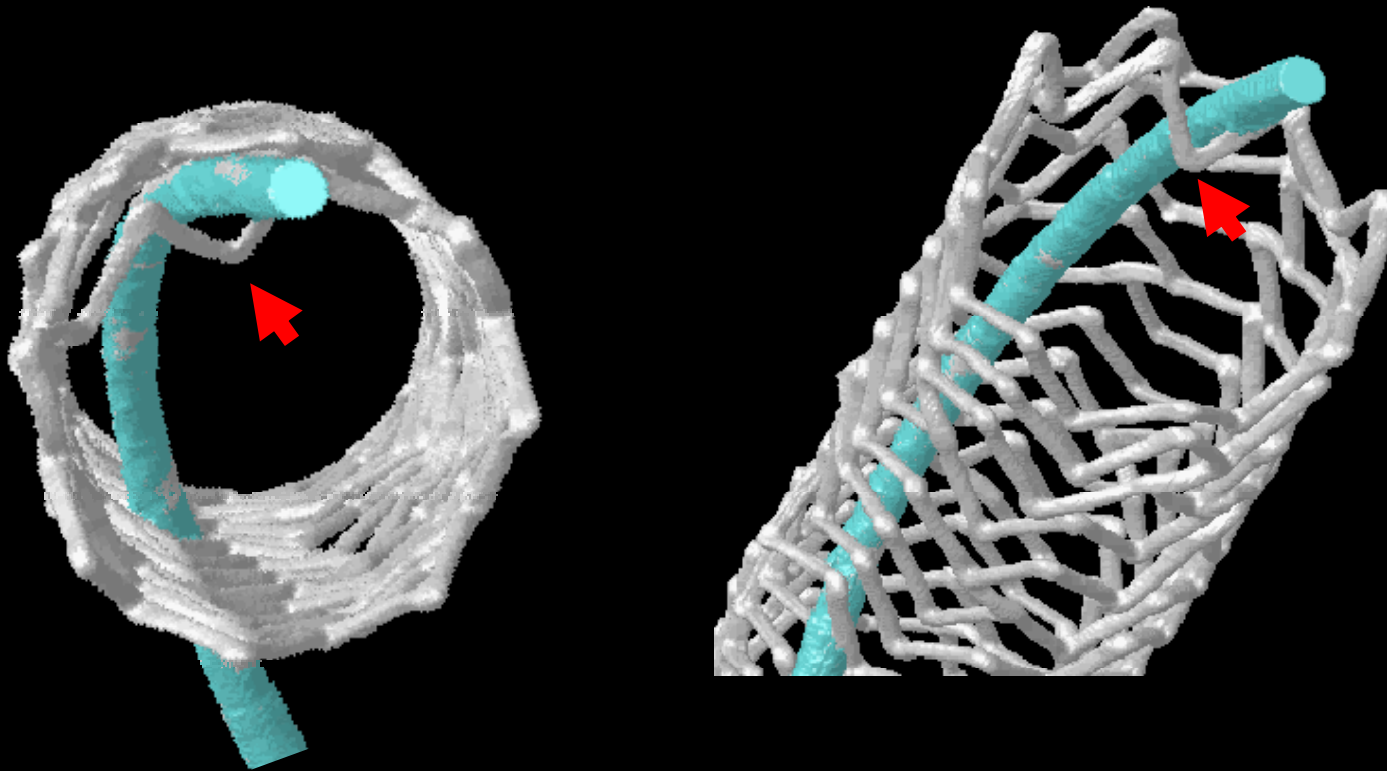
Outcomes

(and Potential for Dedicated Bifurcation Stents)

John Ormiston
Medical Director, Mercy Angiography
Interventional Cardiologist Mercy, Auckland, North Shore
Hospitals

10:30 AM - 10:45 AM

- If the stent is not well apposed there is a risk the wire will pass outside the stent and post-dilating balloon can follow
- Potential for major damage



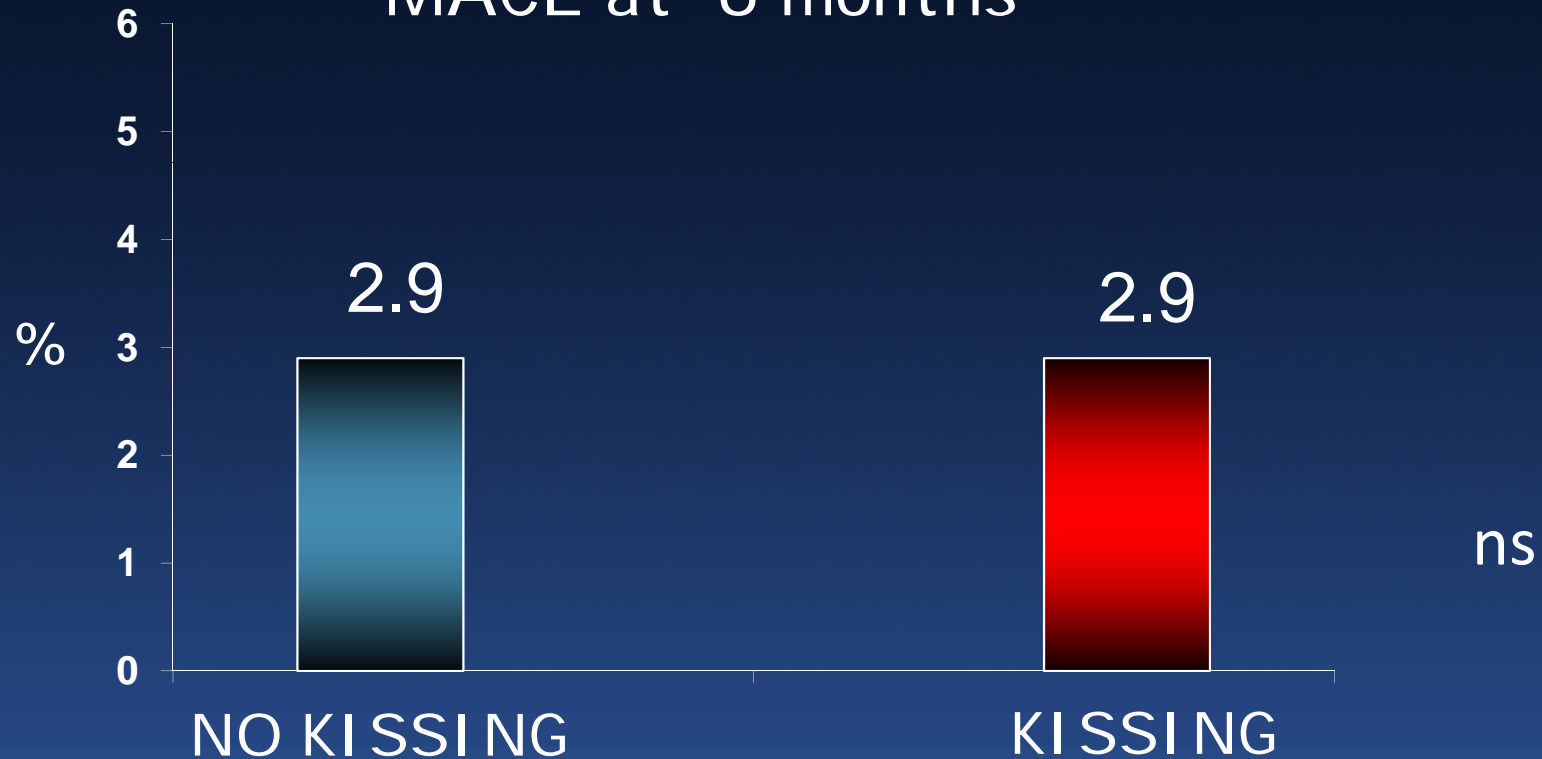
Ormiston

NORDIC 3

FKB vs no FKB in All Bifurcations

Only 50 % of the cases had a True Bifurcation Lesion!!

Primary end point
MACE at 6 months



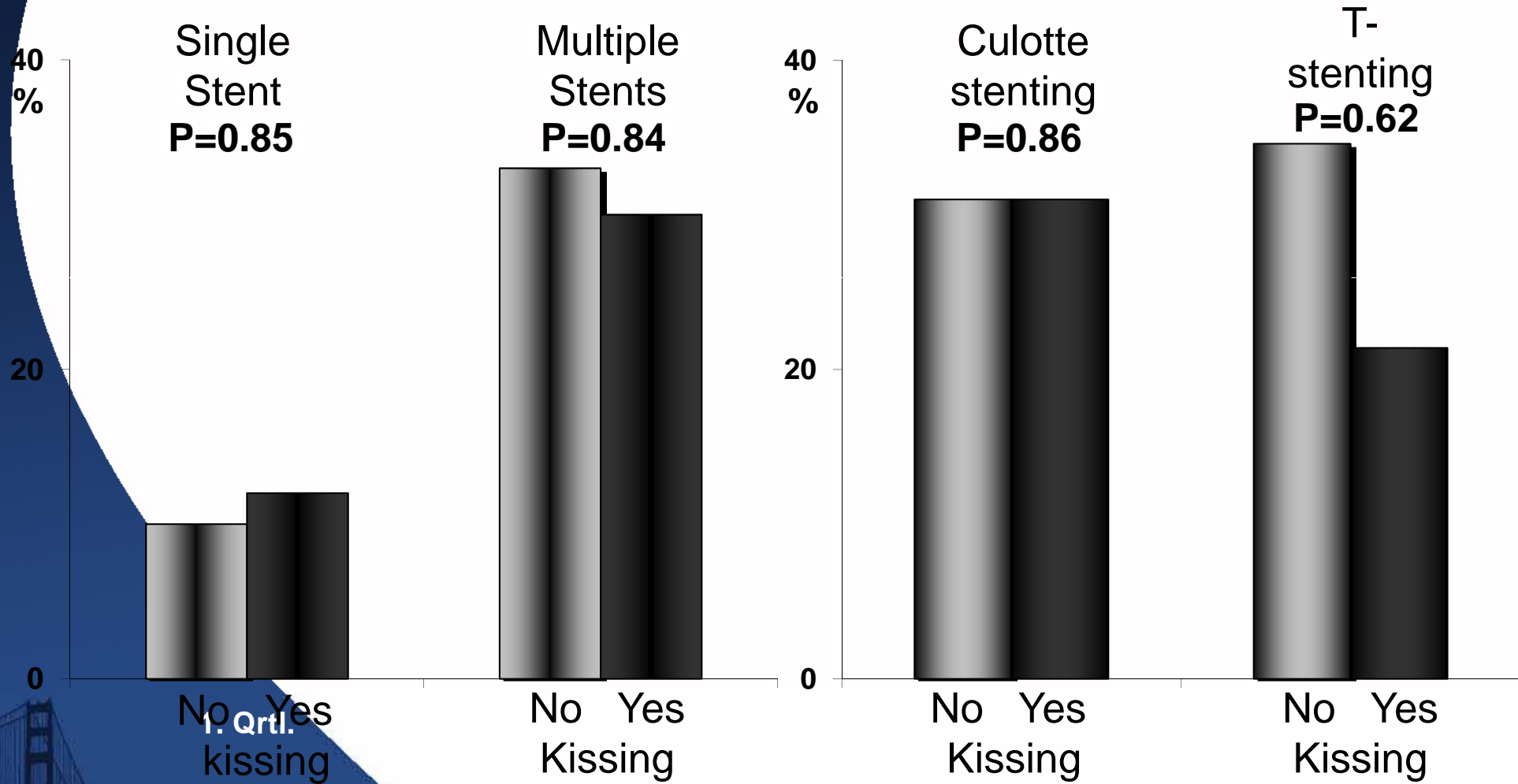
Niemela et al Circulation 2011 (123): 79-86



Impact of kissing balloon on outcome after unprotected left-main stenting

K. Tiroch, J. Mehilli, M. Seyfarth, A. Kastrati

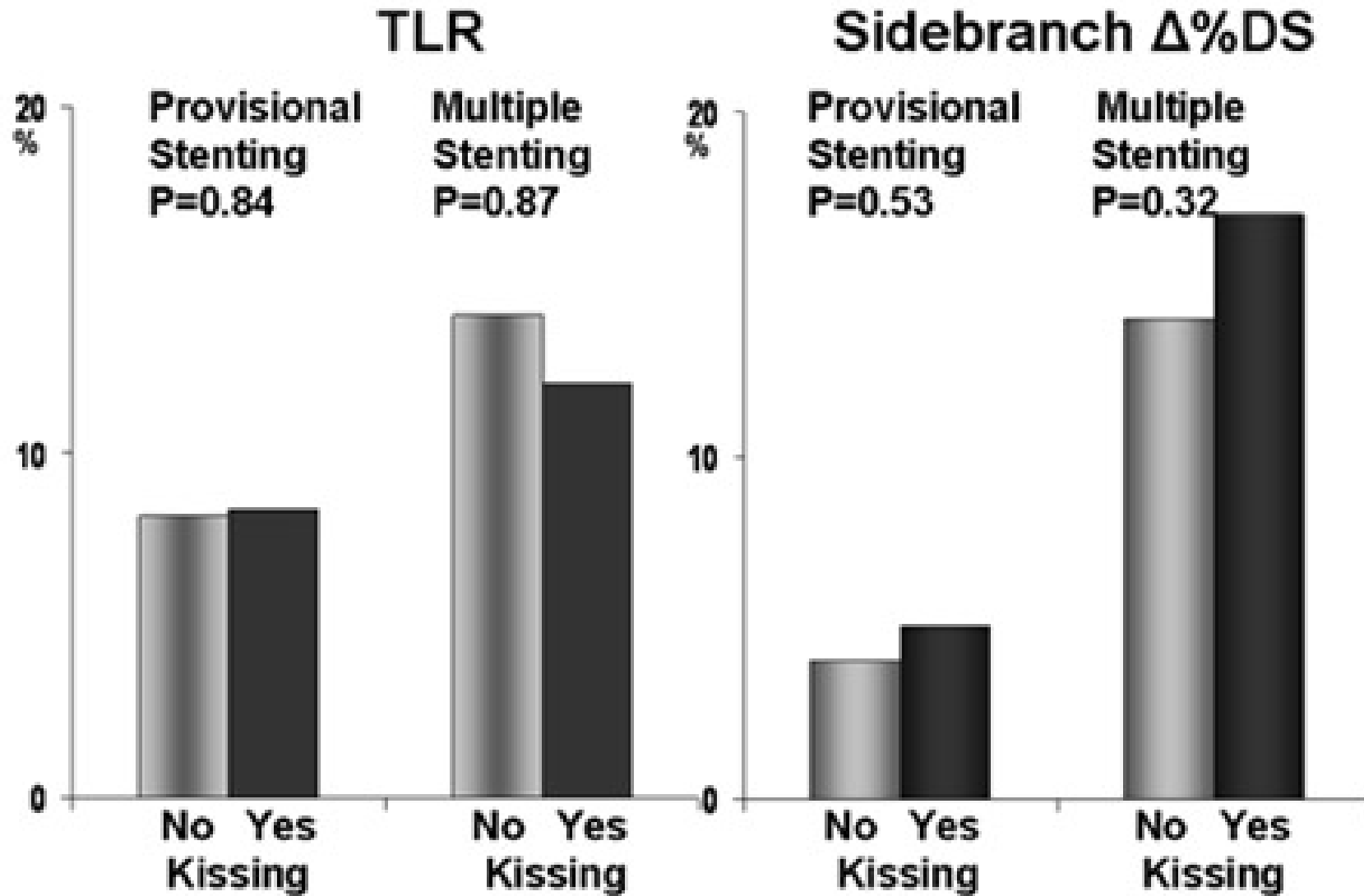
Kissing and angiographic restenosis



Kissing and side branch stenosis

	Final kissing balloon N=213	No final kissing N=394	p
ALL			
Acute SB % diameter stenosis	13.6 ±21.4	32.6 ± 28.8	<0.001
follow-up SB %DS	28.1 ± 28.5	36.8 ± 28.9	0.001
Change SB %DS	14.0 ± 23.0	5.5 ± 13.1	<0.001
Provisional single stent			
Acute SB % diameter stenosis	26.1 ±16.2	35.3 ± 28.8	0.02
follow-up SB %DS	32.0 ± 20.2	37.7 ± 28.8	0.18
Change SB %DS	5.2 ± 13.1	4.0 ± 12.5	0.53
Multiple stents			
Acute SB % diameter stenosis	8.6 ± 21.3	17.8 ± 23.9	0.007
follow-up SB %DS	26.5 ± 31.0	32.2 ± 29.4	0.25
Change SB %DS	17.4 ± 25.1	13.5 ± 21.4	0.32

Kissing balloon and outcome



Summary

- Provisional stenting is the preferred technique, and final kissing provides minimal long-term benefit, with no relevant change of the side-branch ostium over time.
- For multiple stenting, final kissing is needed more often for culotte stenting. In the presence of an optimal result, final kissing does not seem to provide additional benefit in our study

Final kissing ballooning and long-term clinical outcomes in coronary bifurcation lesions treated with 1-stent technique: results from the COBIS registry

Background Whether final kissing ballooning (FKB) is mandatory in the 1-stent technique is uncertain.

Heart 2012

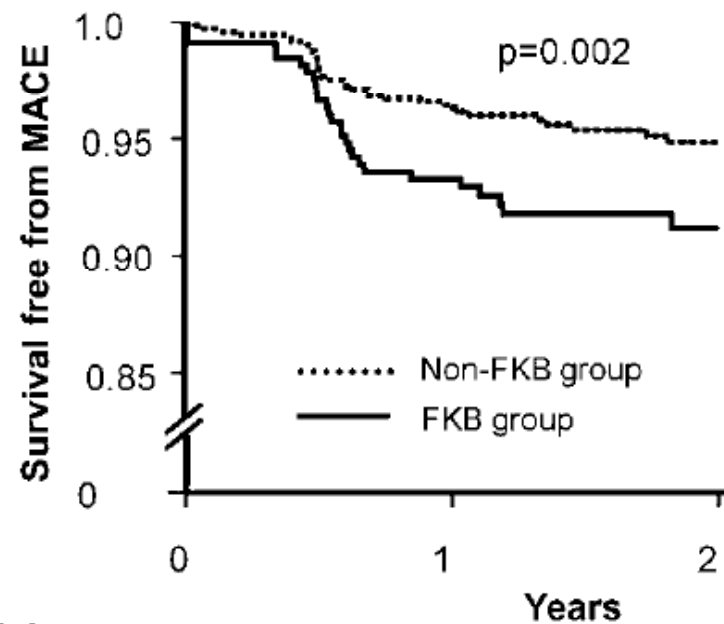
Objective To evaluate the effect of FKB on long-term clinical outcomes in coronary bifurcation lesions treated with the 1-stent technique.

- Propensity matched groups for consecutive patient undergoing single stent PCI for bifurcation
- N=736 MV stent only
- N=329 MV stent then Final Kissing Balloon

Nick Curzen

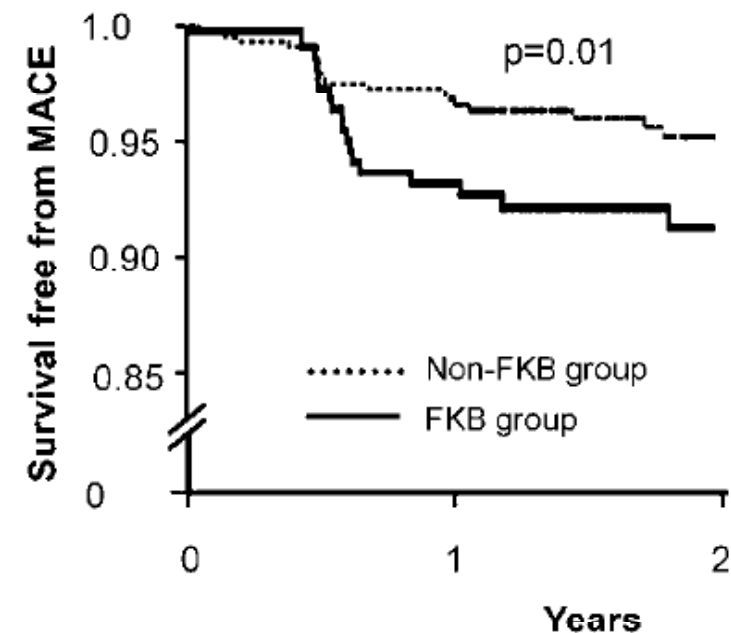


A Total population



No. at Risk		0	1	2
Non-FKB group		736	693	322
FKB group		329	300	144

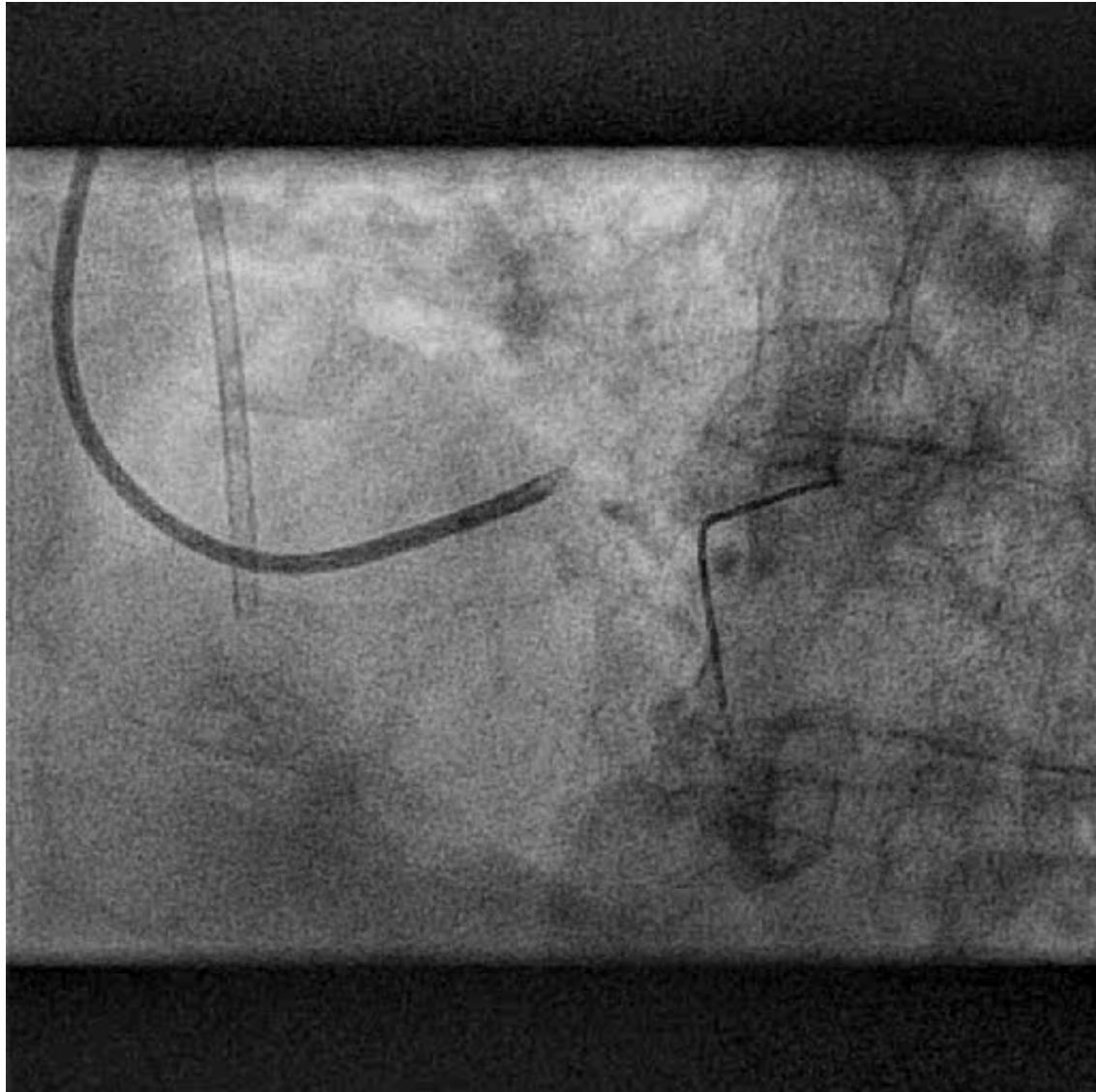
B Propensity score-matched population

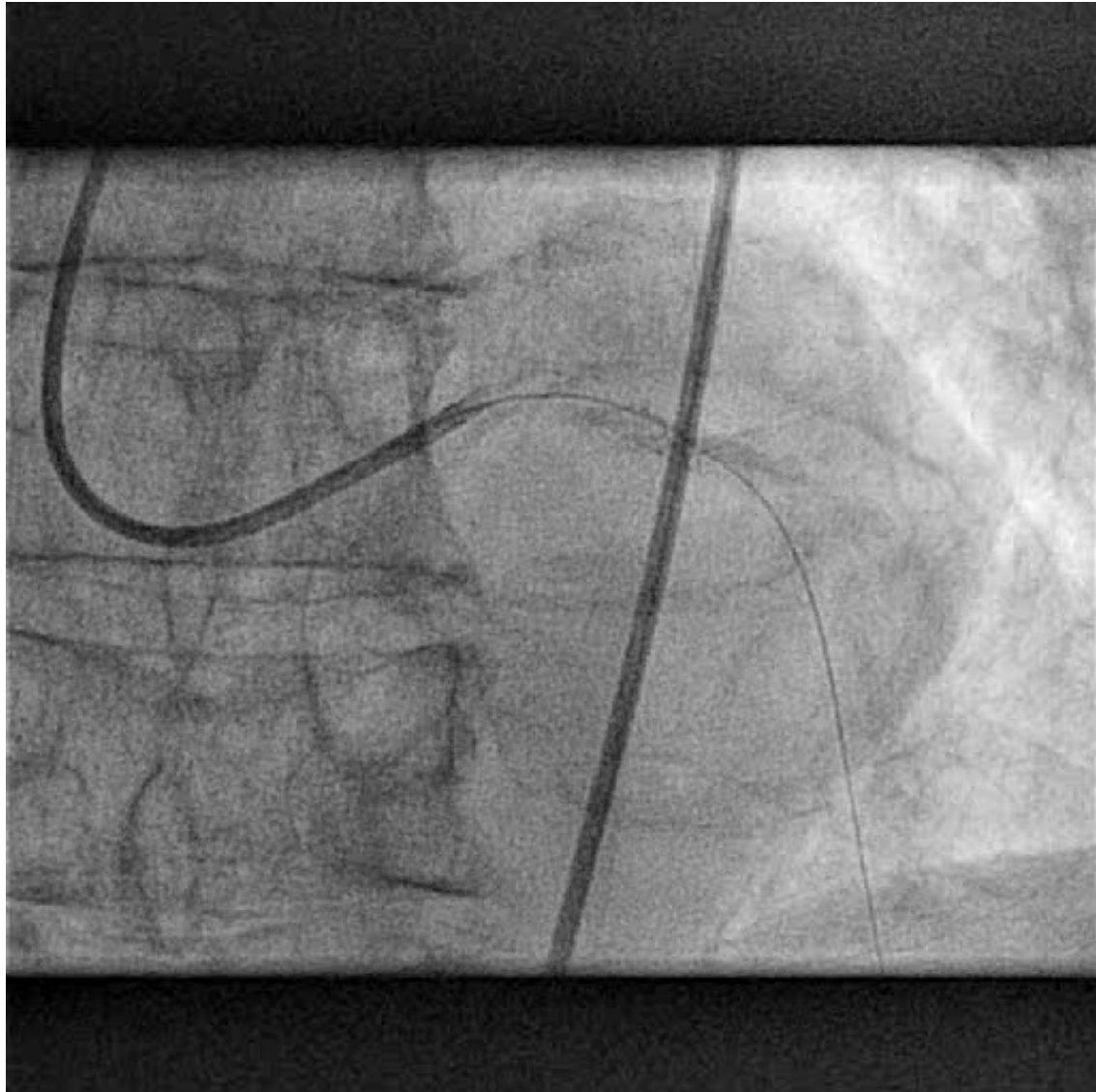


No. at Risk		0	1	2
Non-FKB group		444	421	211
FKB group		222	201	102

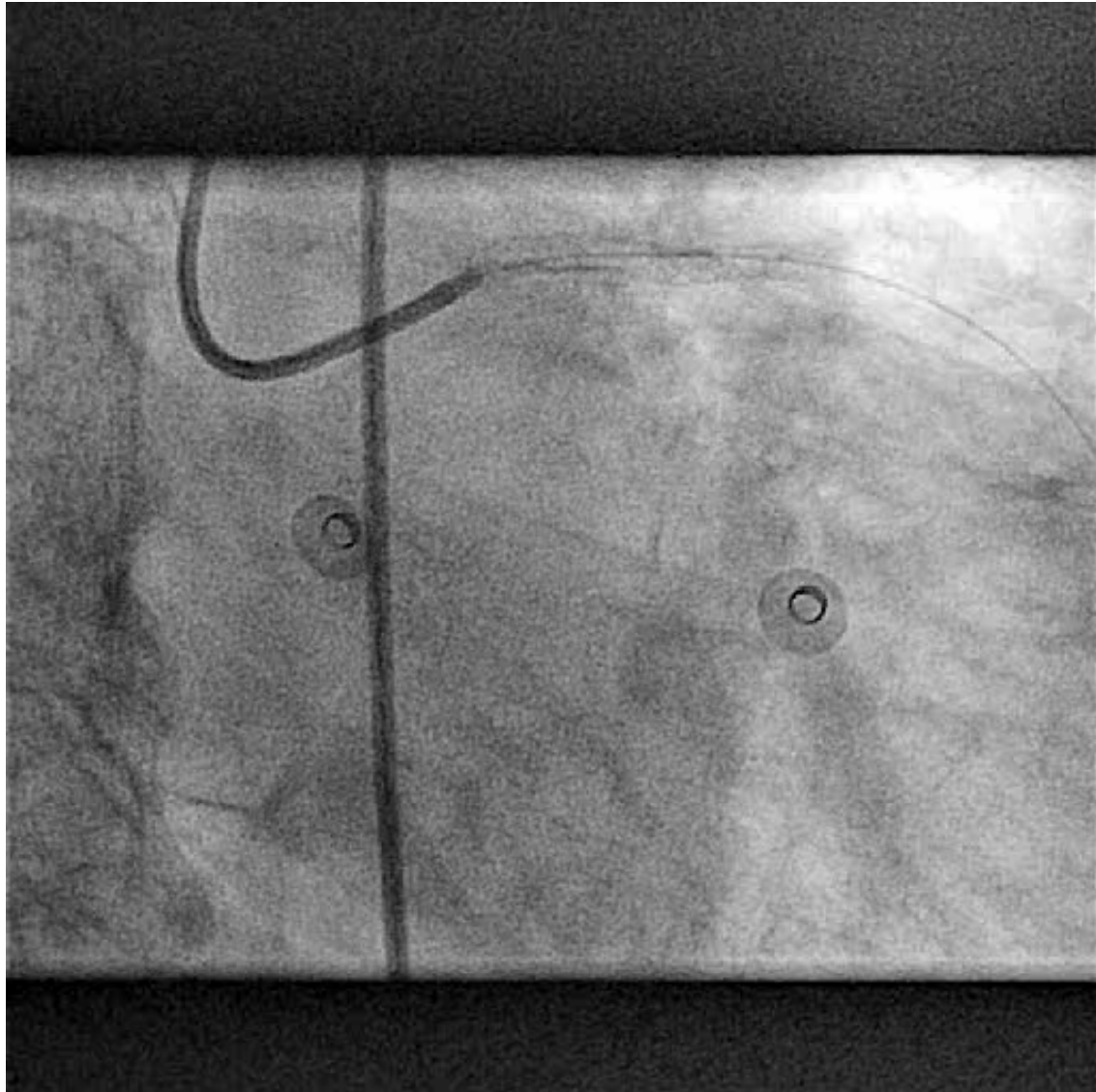
Conclusions In patients treated with the 1-stent technique for bifurcation lesions, FKB after main vessel stenting may be harmful mainly due to increased TLR.

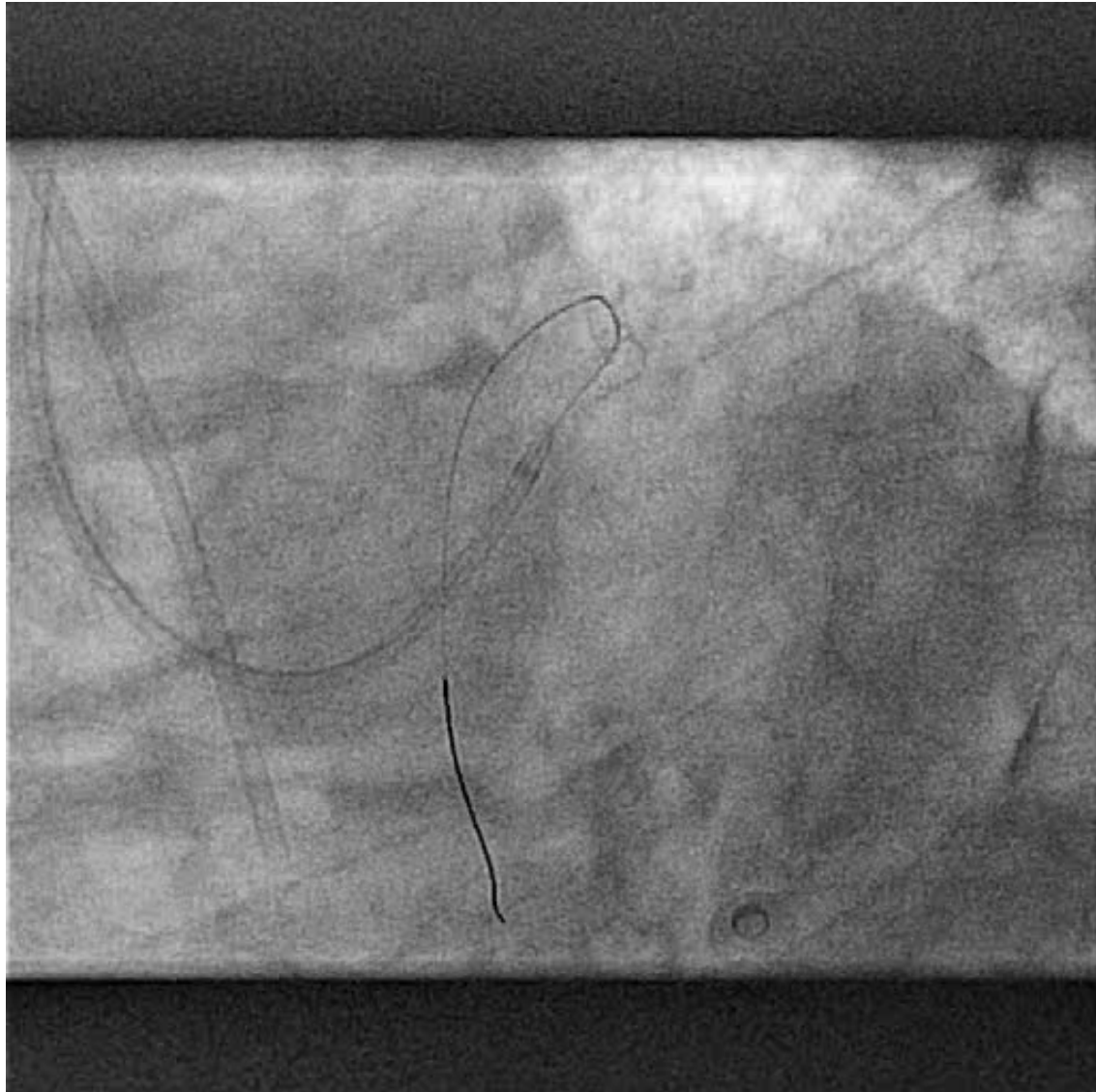


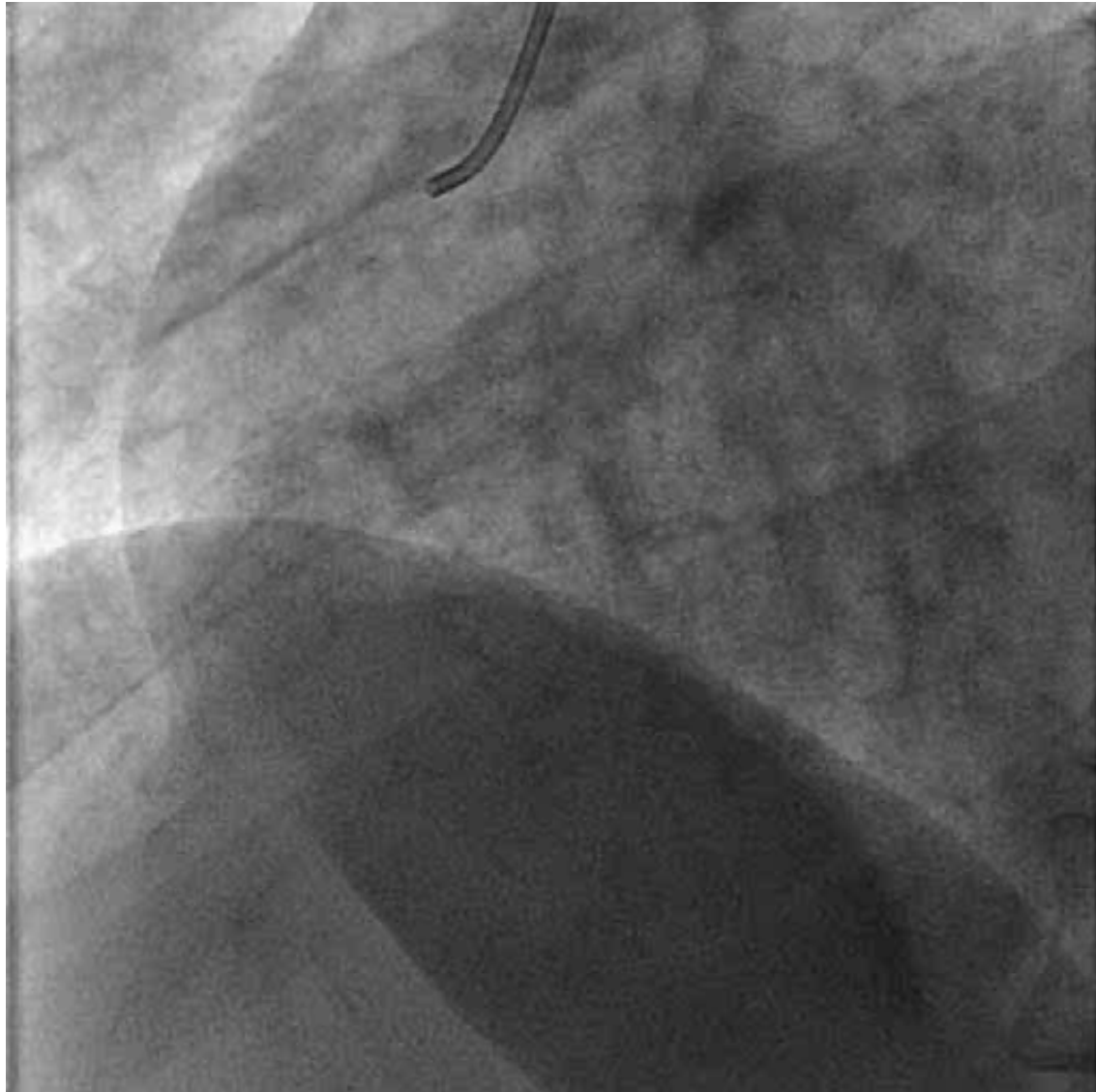


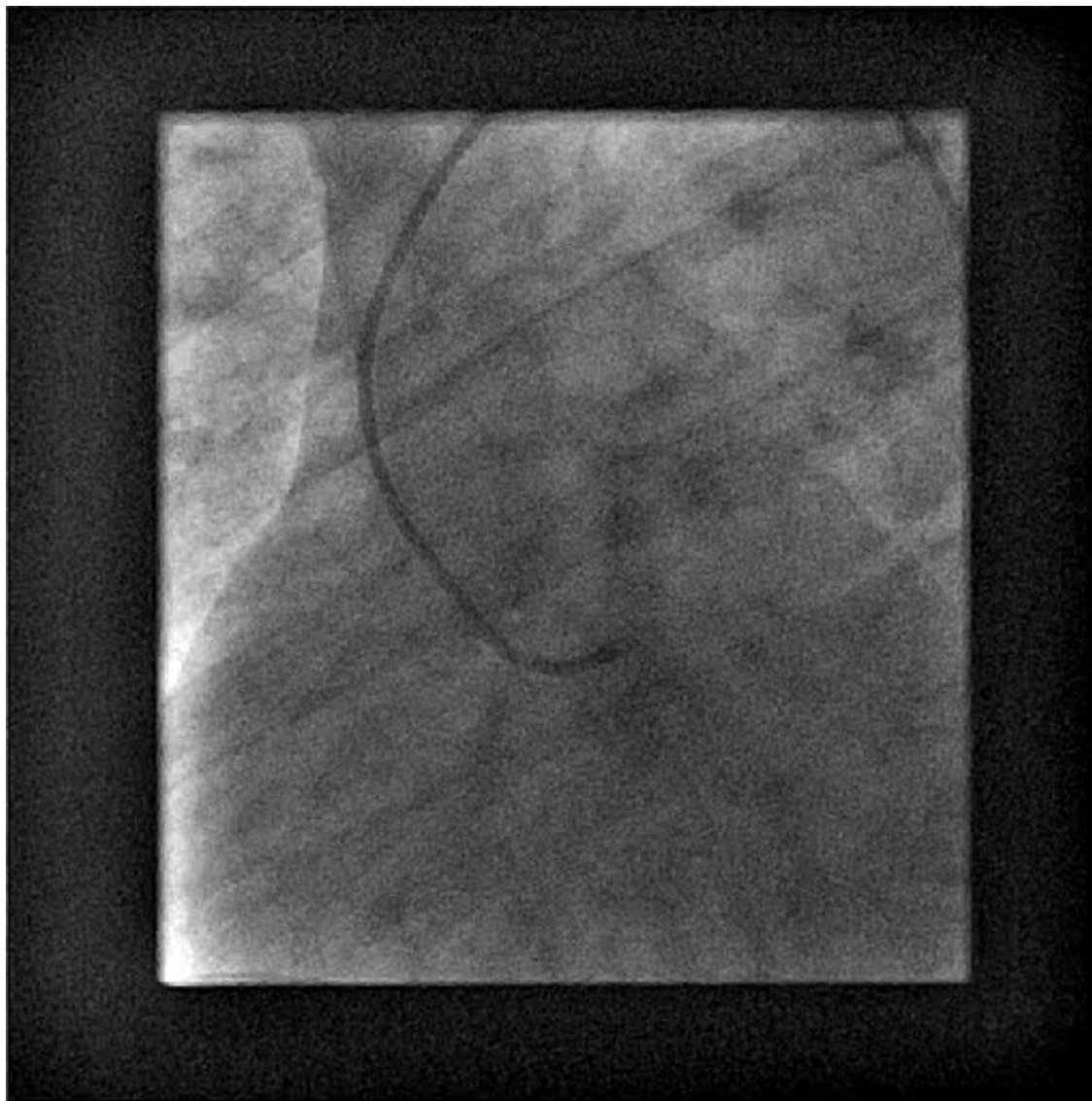


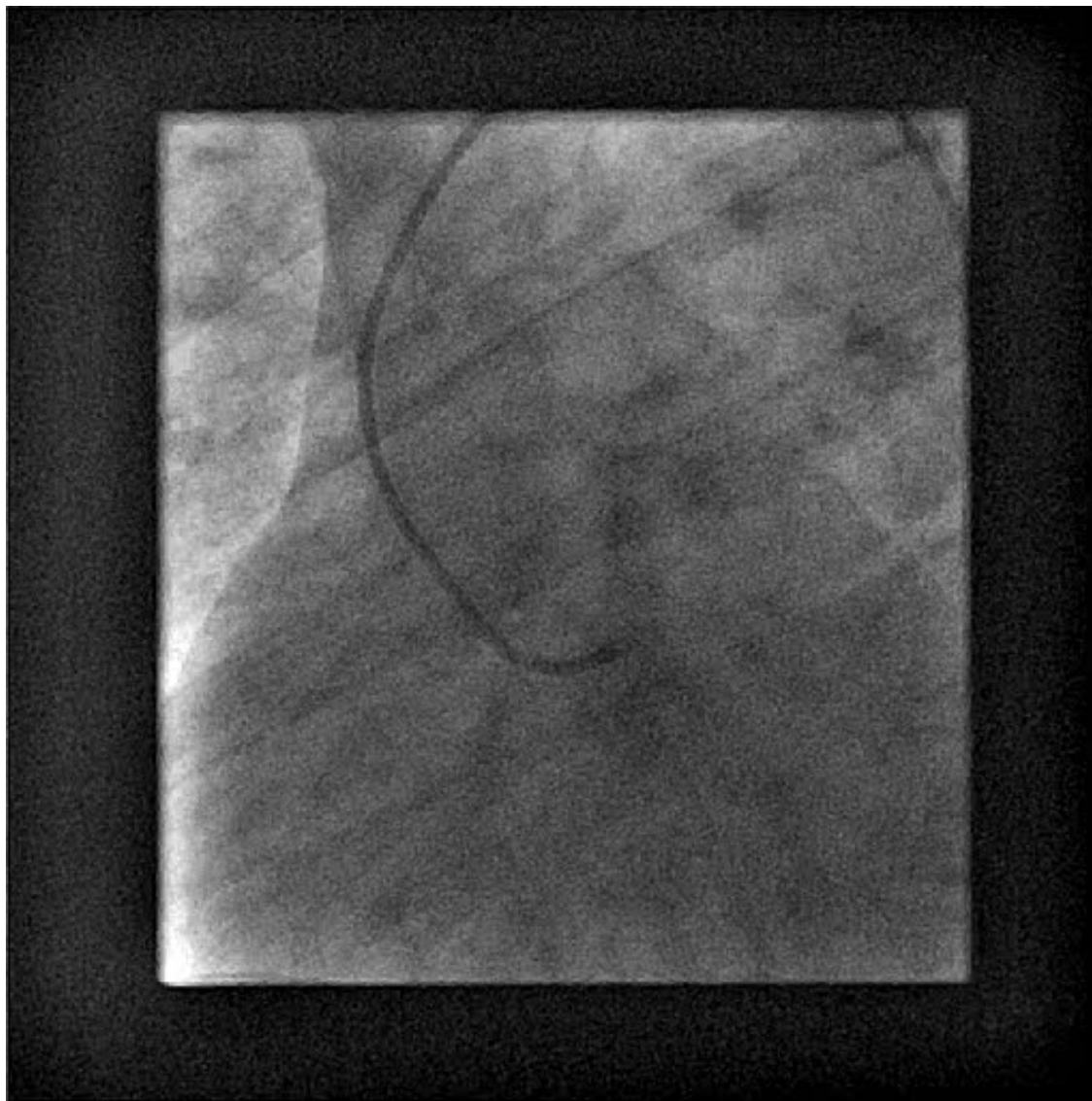


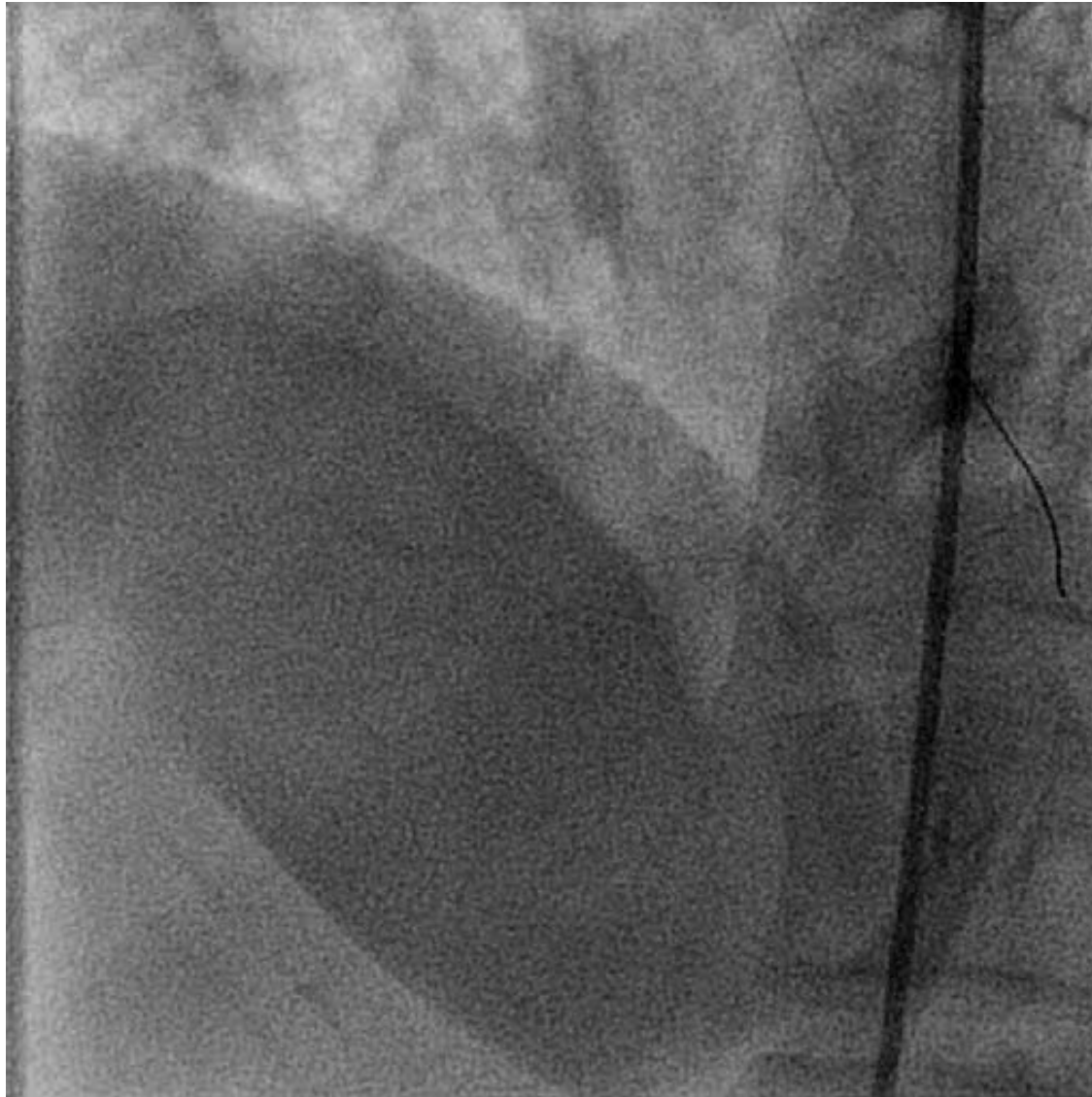


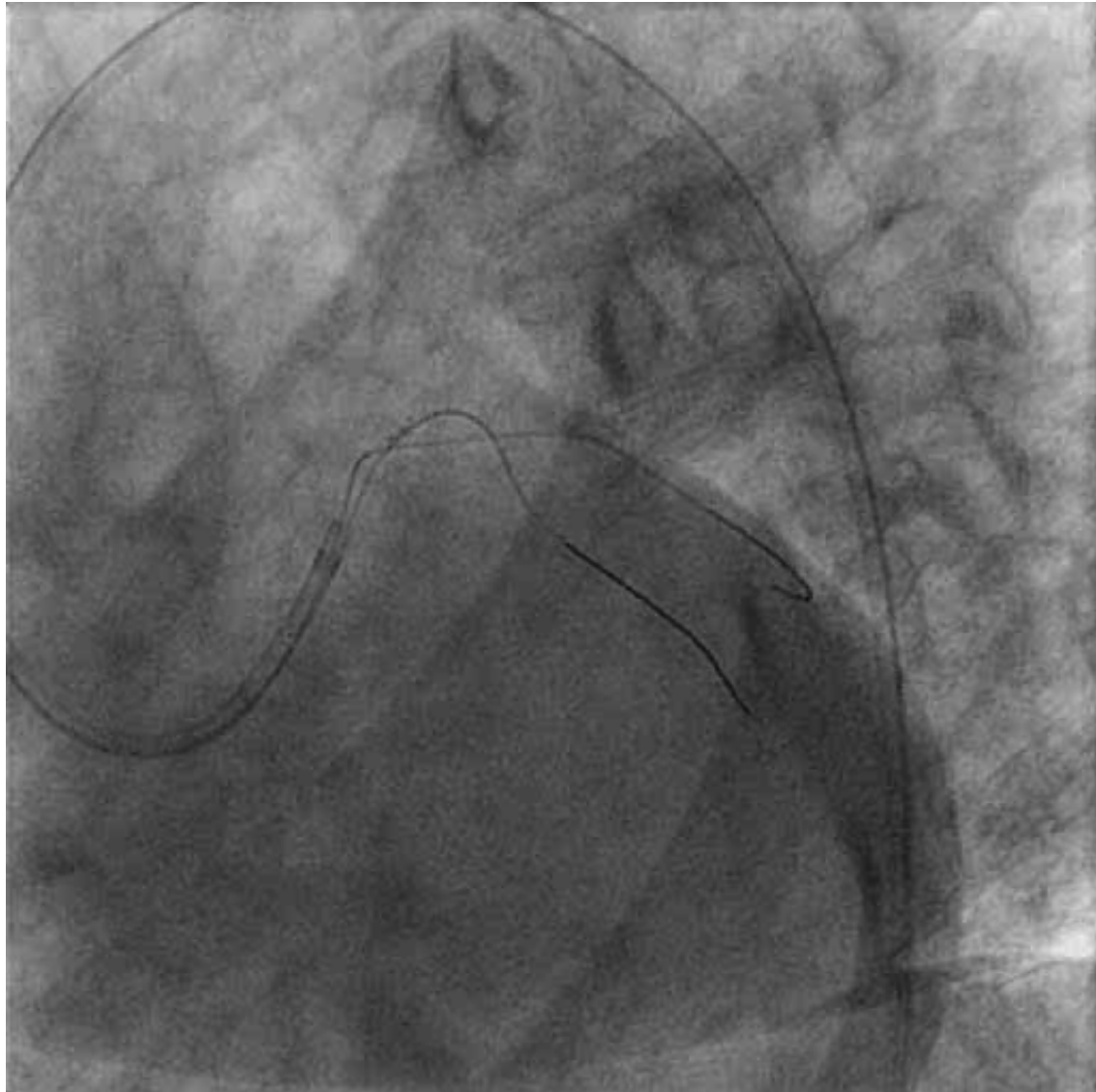


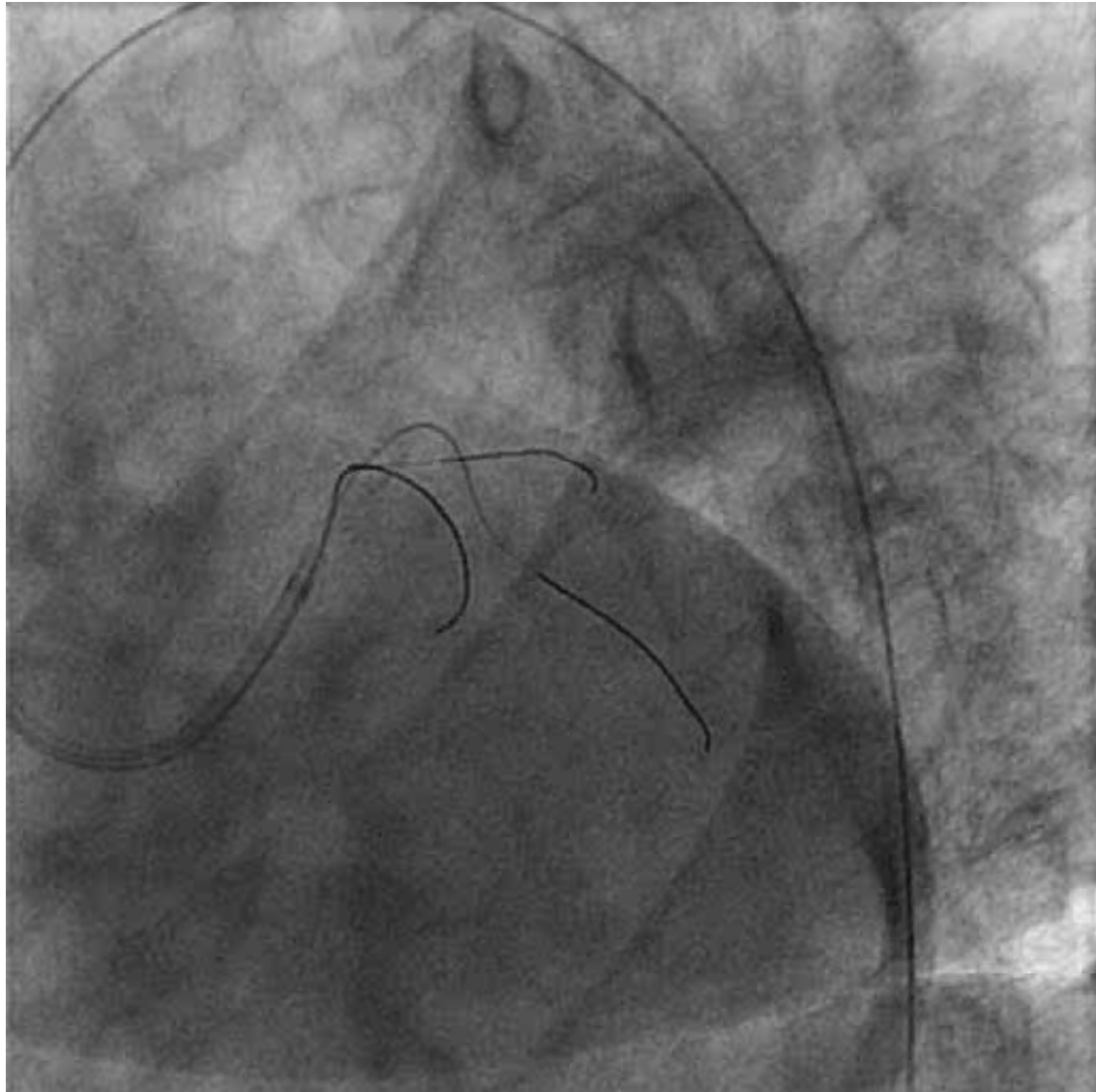




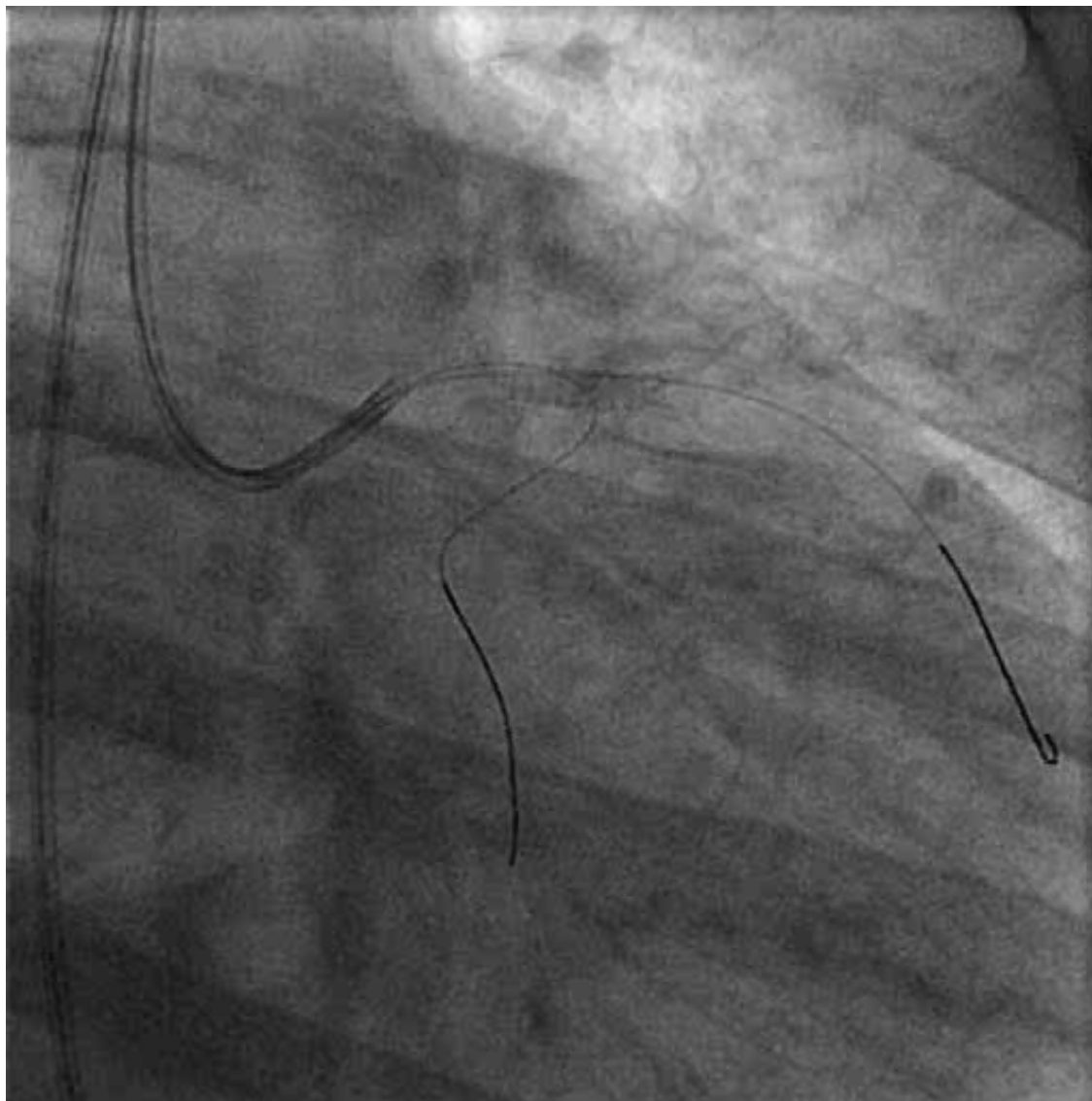


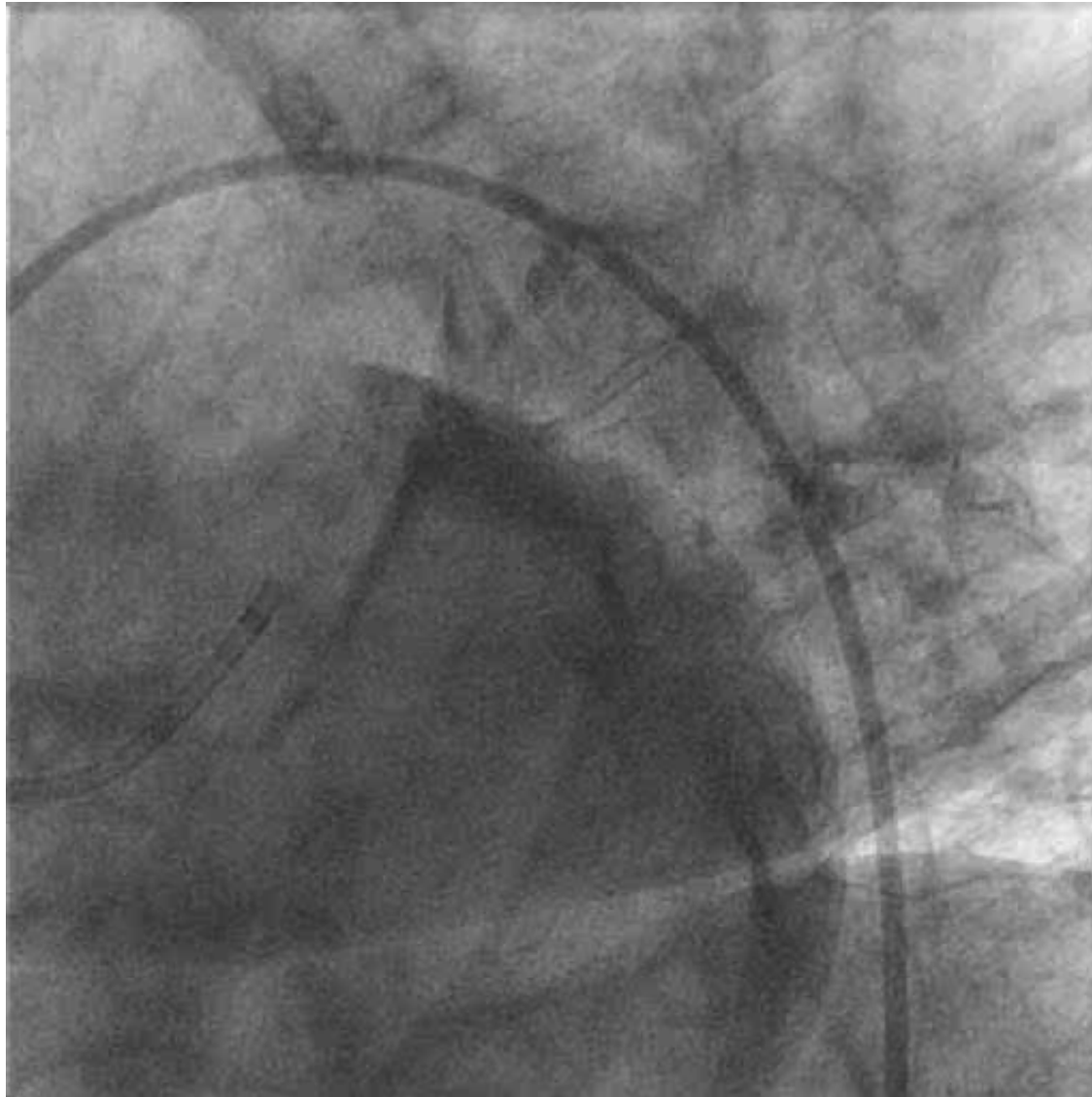




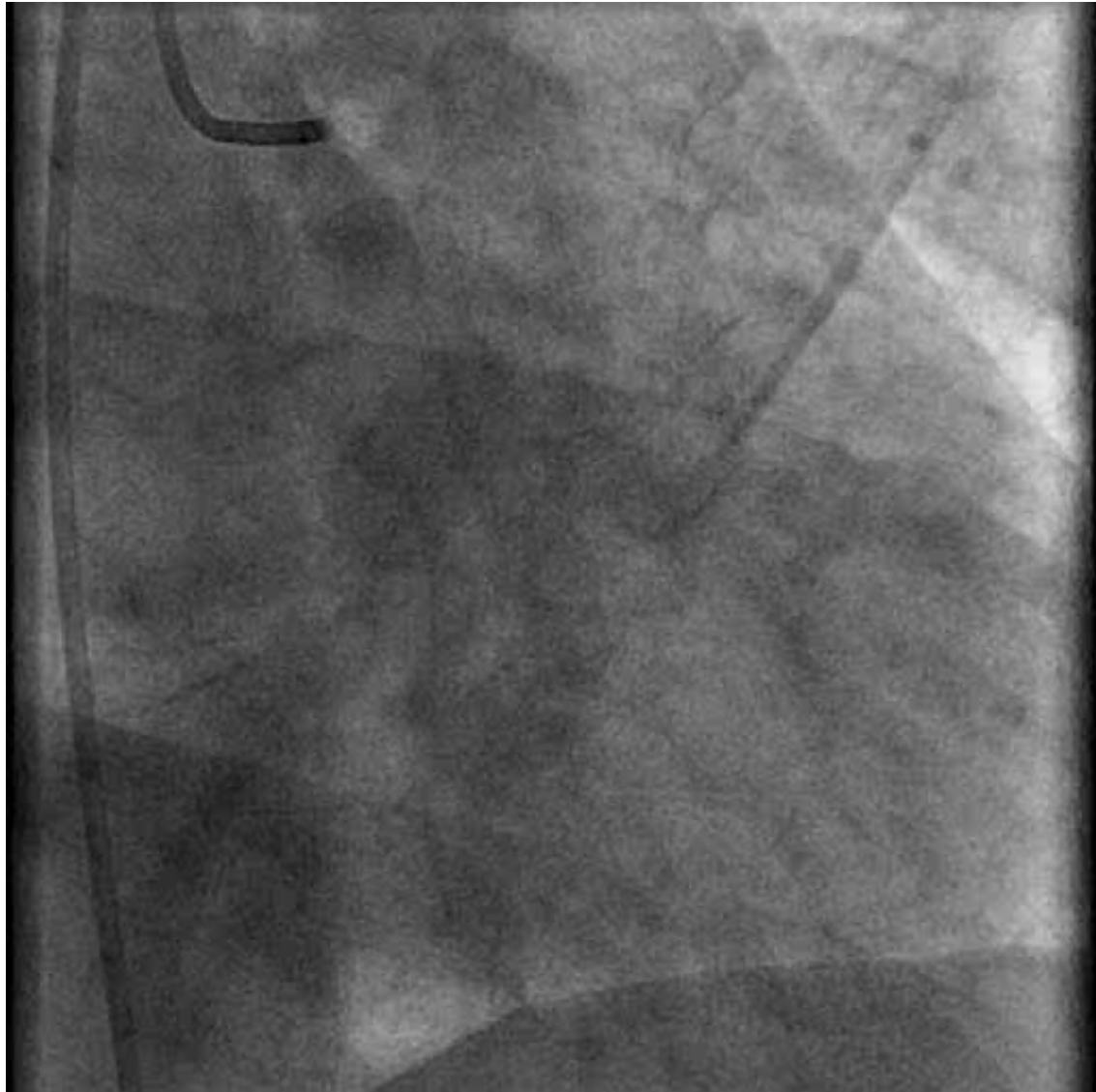


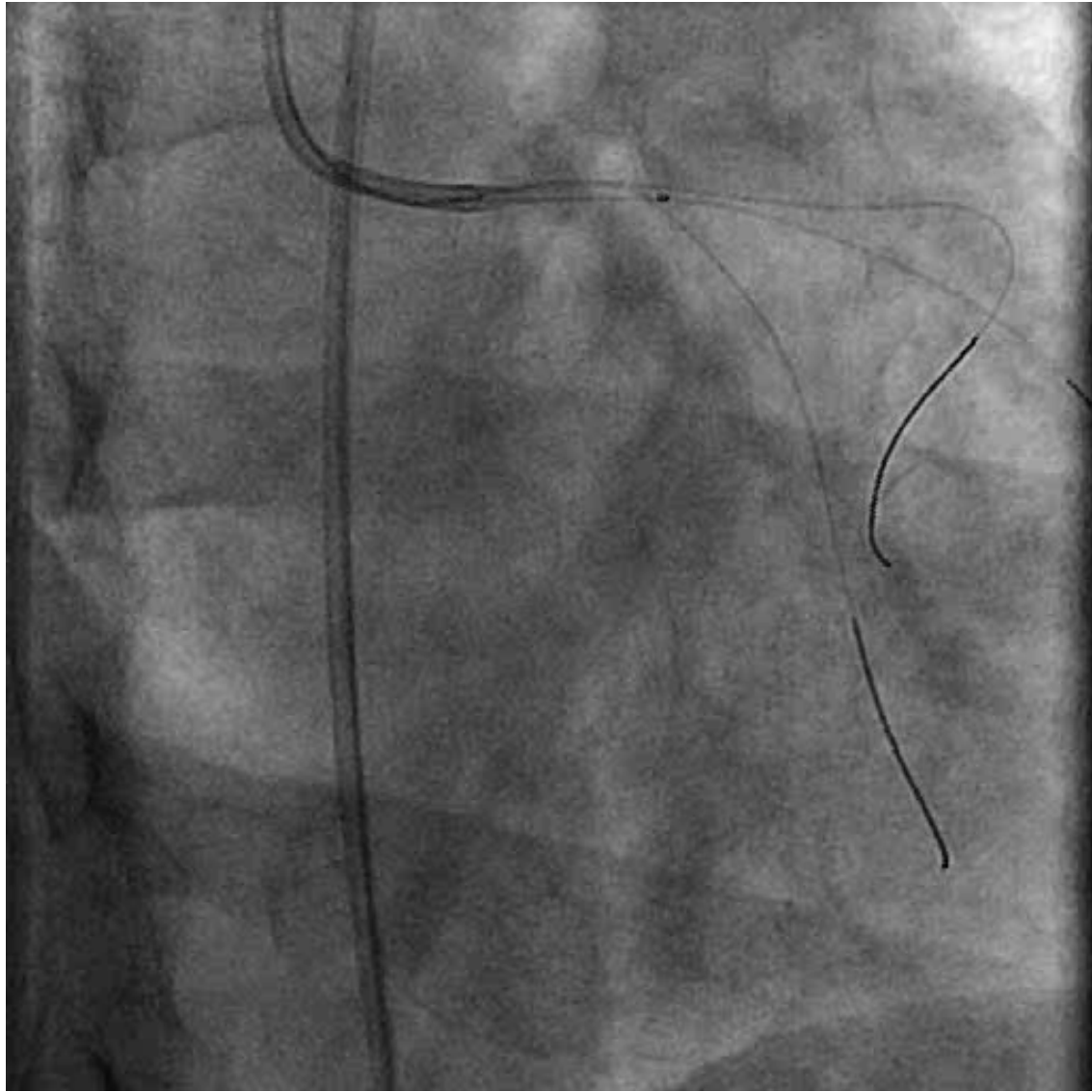


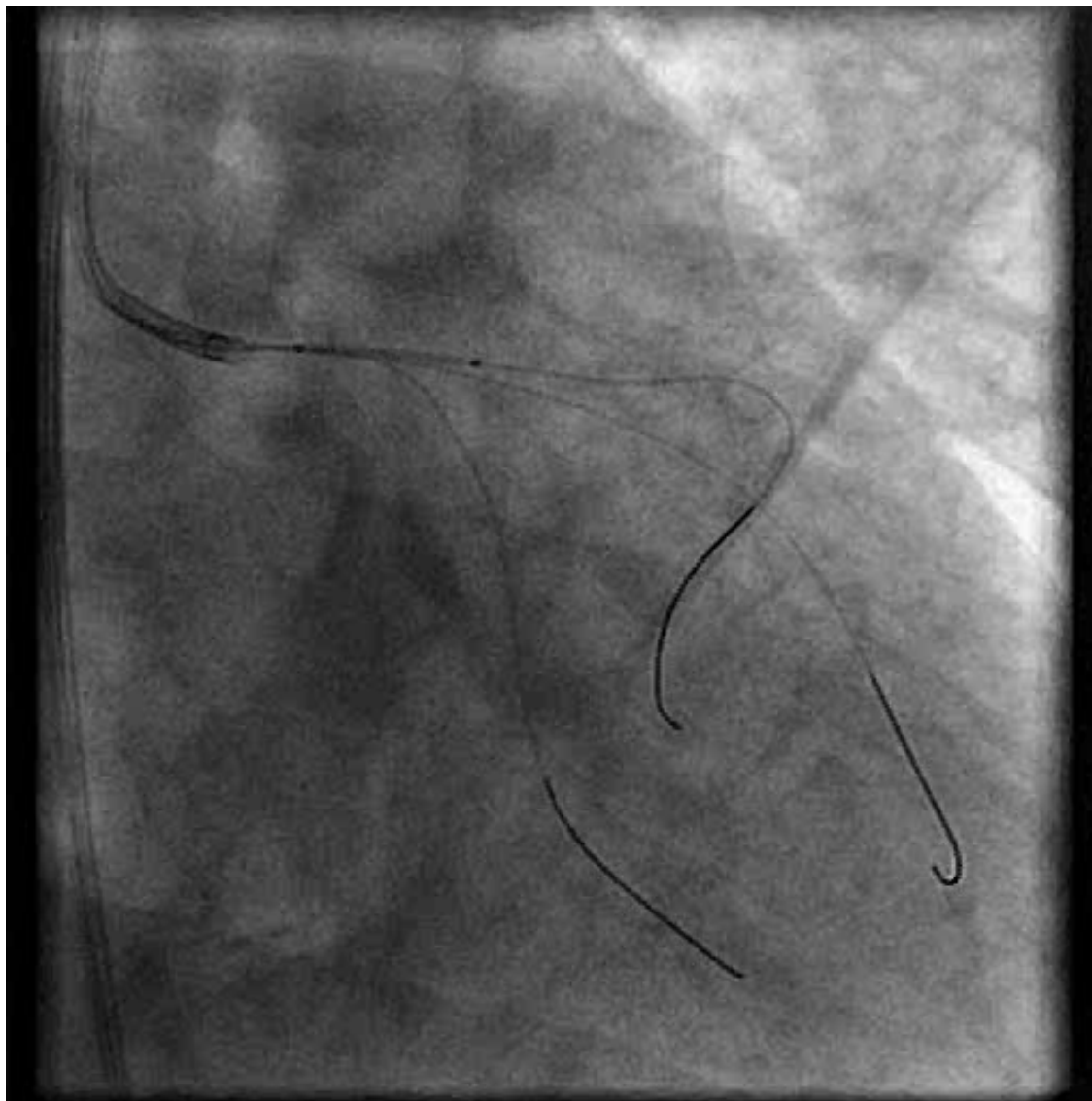


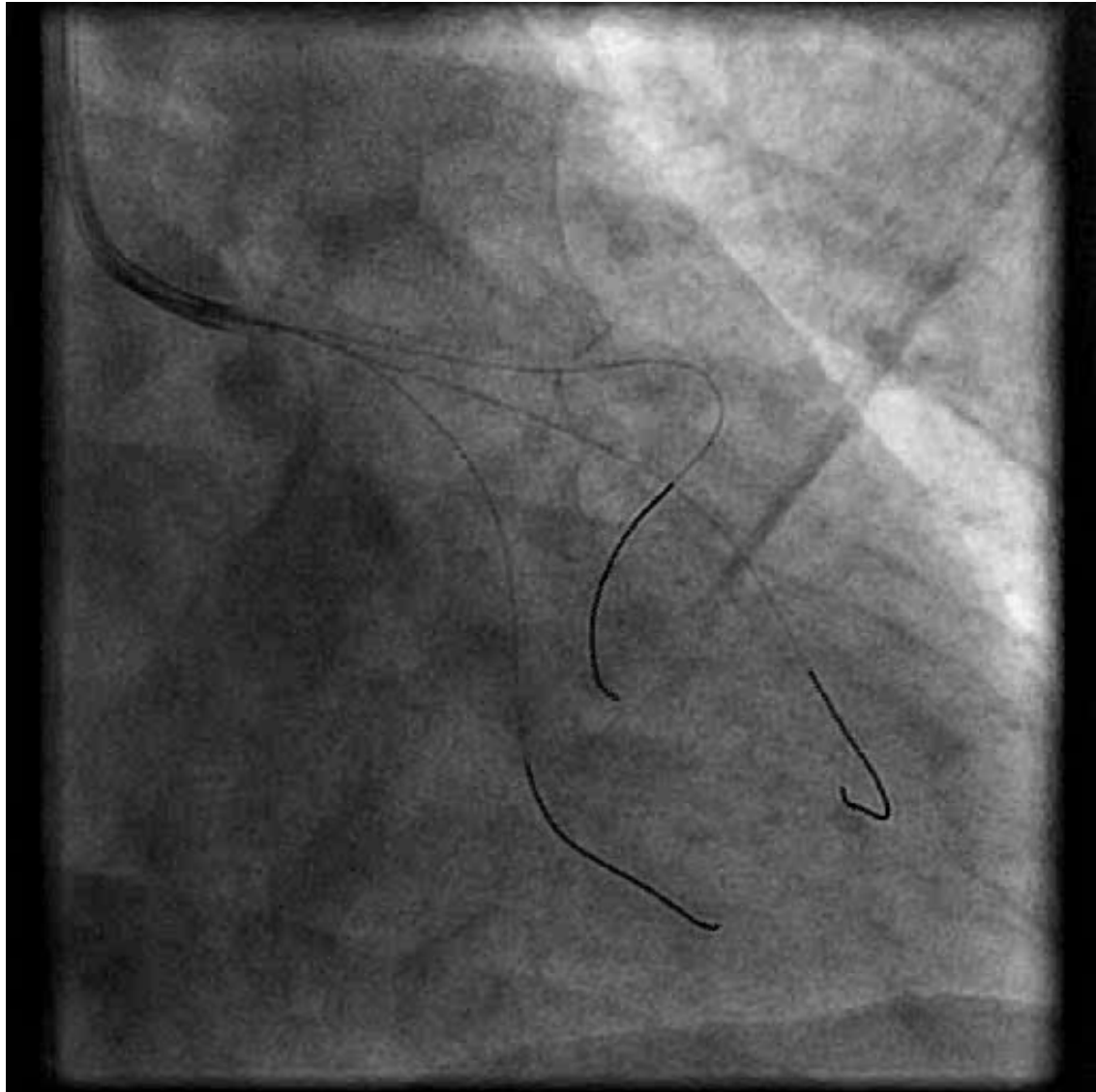


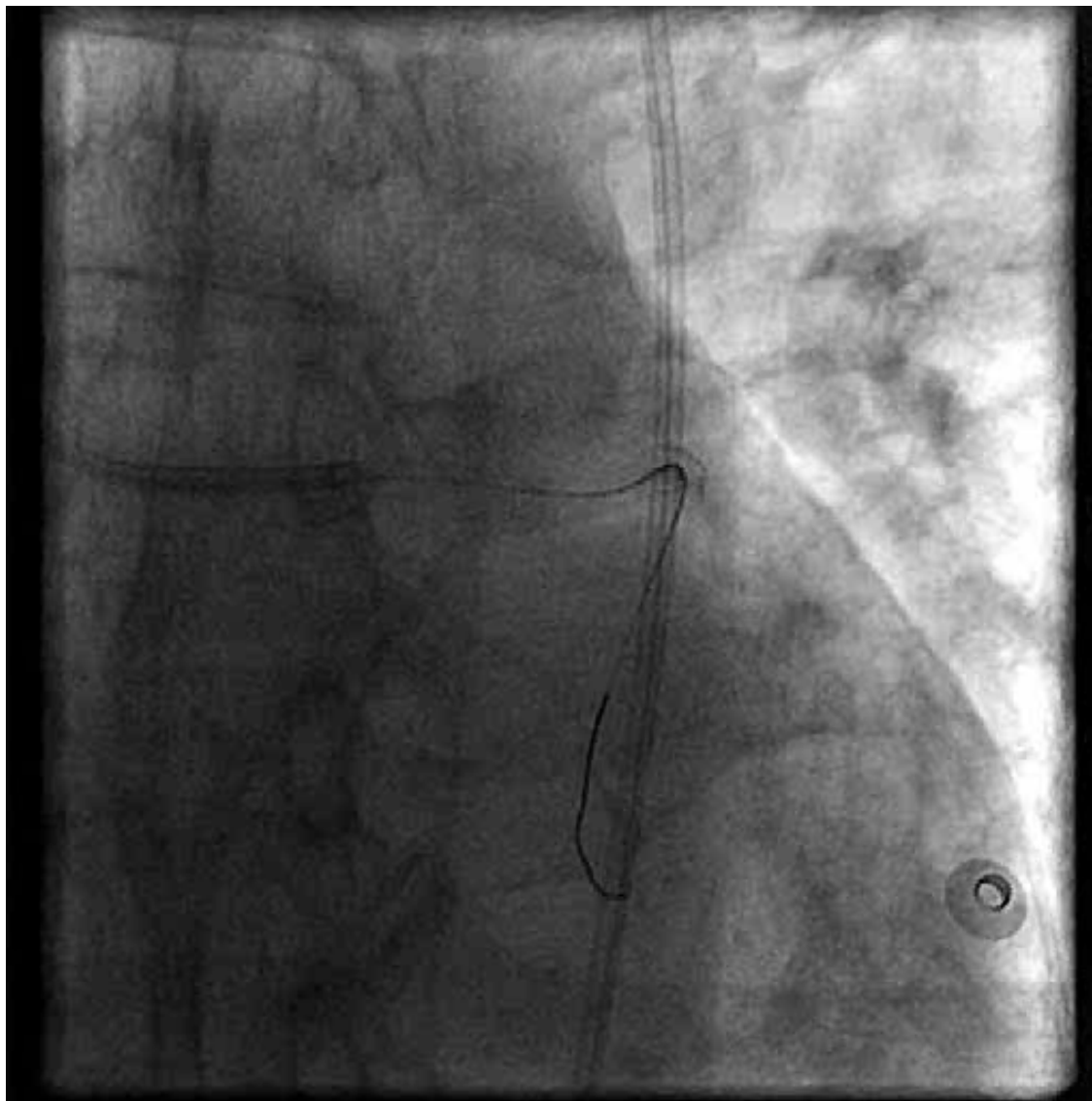


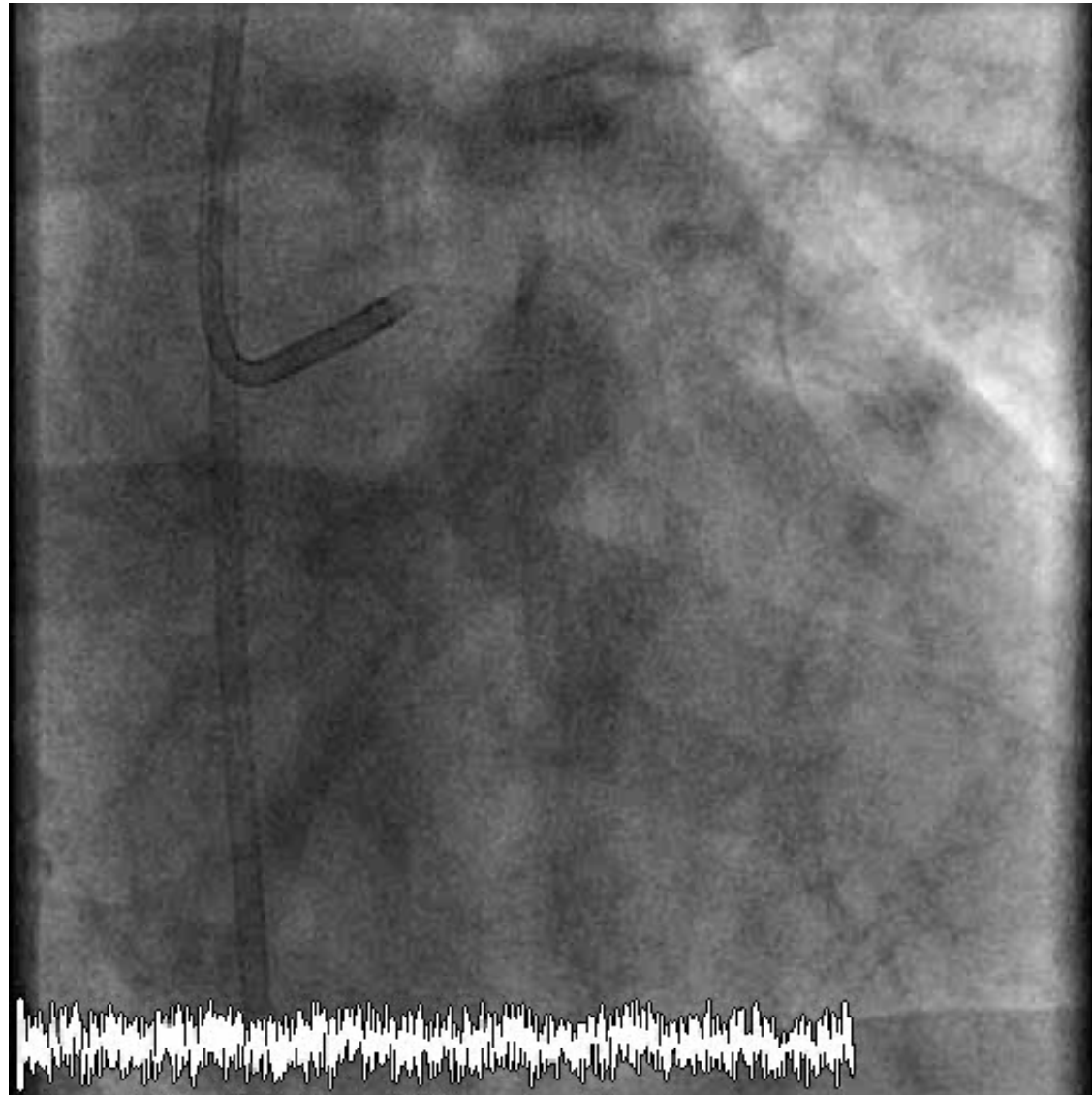












**In selected cases no kiss
is better and can prevent damage**

Selection is based on anatomy

**Two stents technique still might need final
kissing in selected cases**



