

*ANGIOPLASY SUMMIT 2011
TCT ASIA PACIFIC*

Seoul, Korea: 27 - 29 April 2011

Coronary Session 3: Left Main & Bifurcation Summit

**Technical approach
for left main disease**

Speaker - 12'

Antonio Colombo

*Centro Cuore Columbus and
S. Raffaele Scientific Institute, Milan, Italy*

Antonio Colombo is a minor share holder of Cappella Inc., a Company manufacturing a bare metal stent for ostial lesions

February 10-12, 2011
Rome, Italy

International meeting





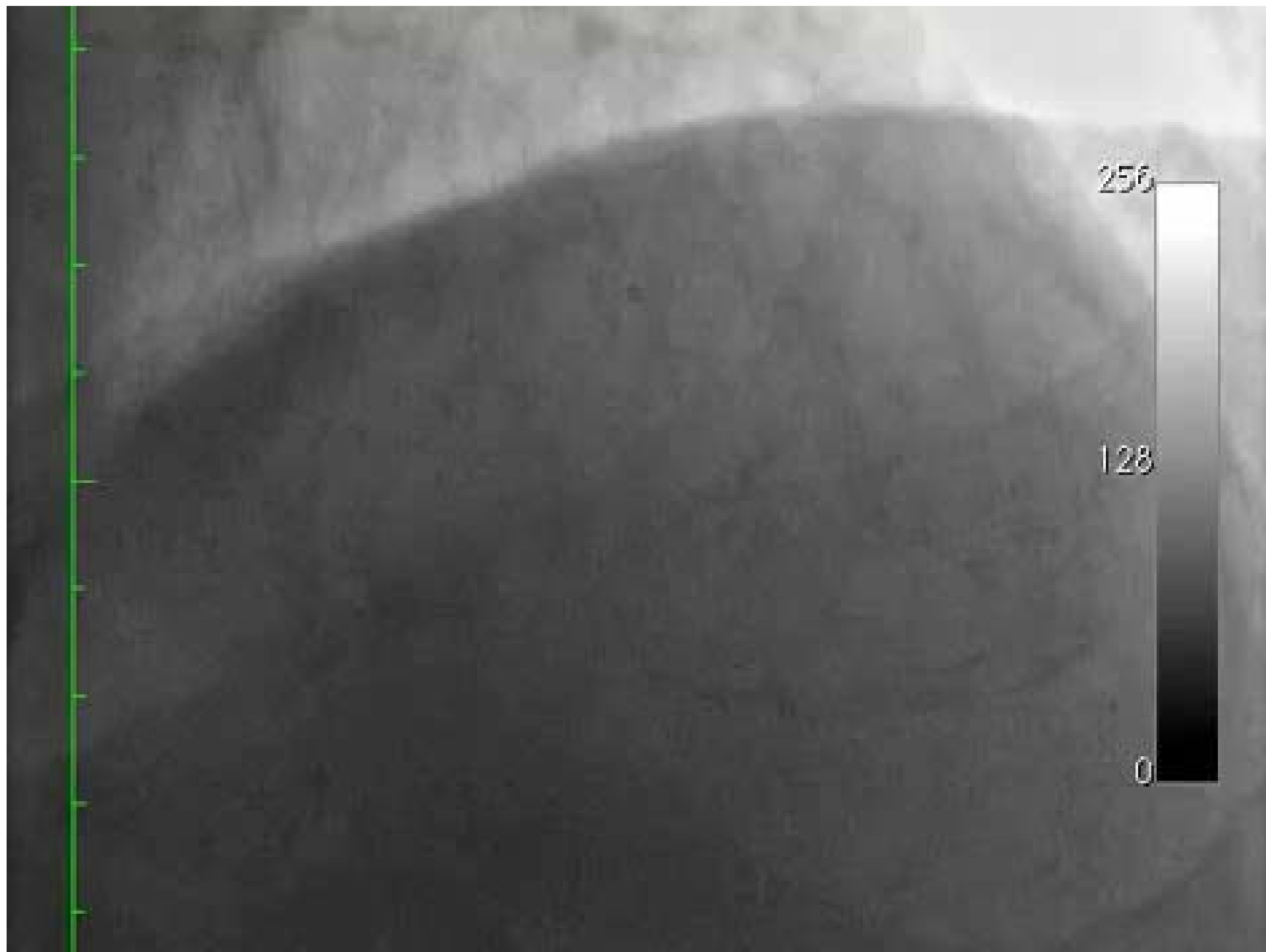


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View size: 606 x 606
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X: 107 px Y: 499 px Value: 44.00

28058 (80 y , 80 y)
Cardiac - Left Coronary 15 fps
R201104191404036



Zoom: 118% Angle: 0

Im: 38/86

19/04/11 15.07.54

JPEGLossless:Non-hierarchical-1stOrderPrediction

Made In OsiriX

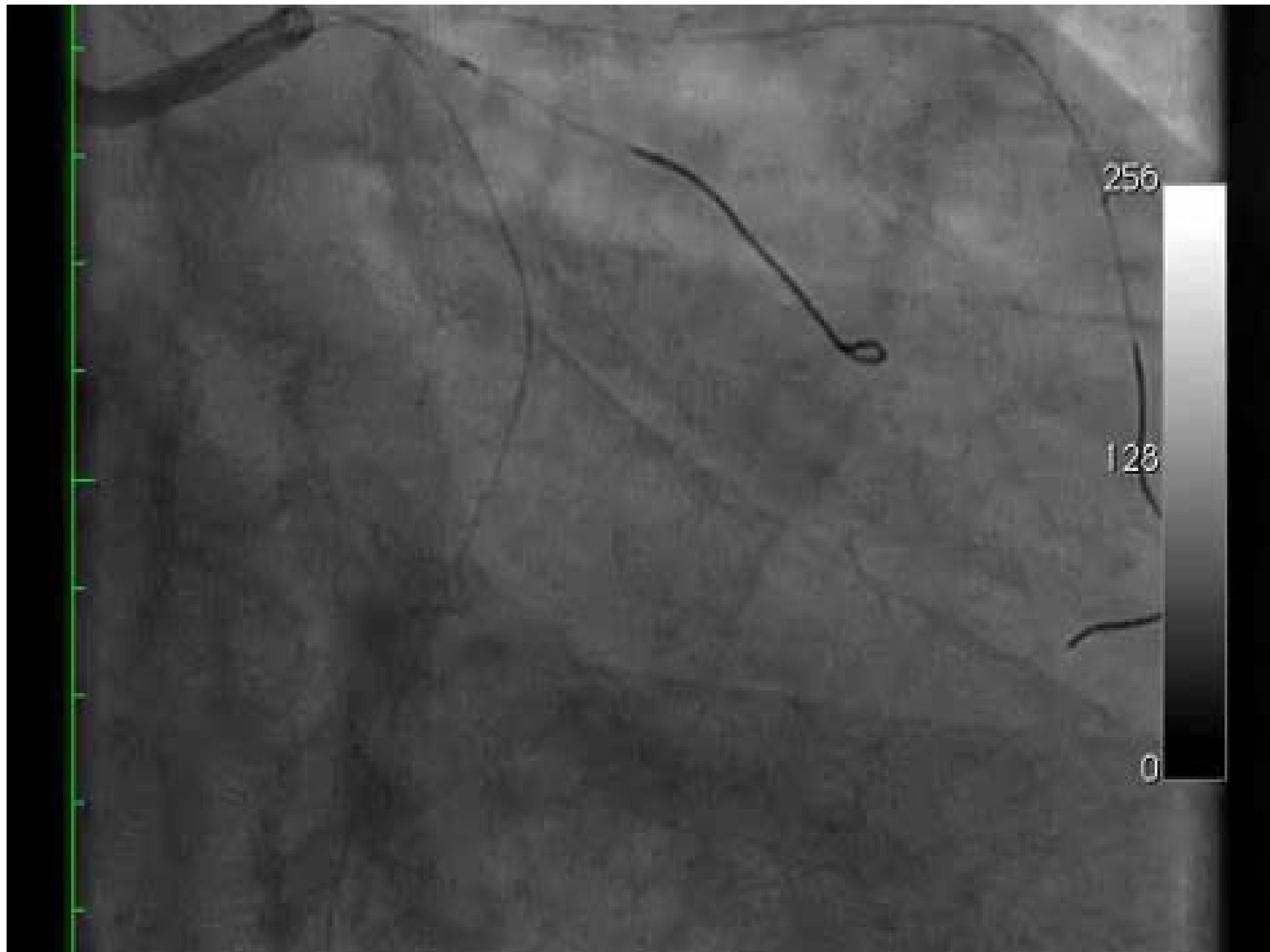
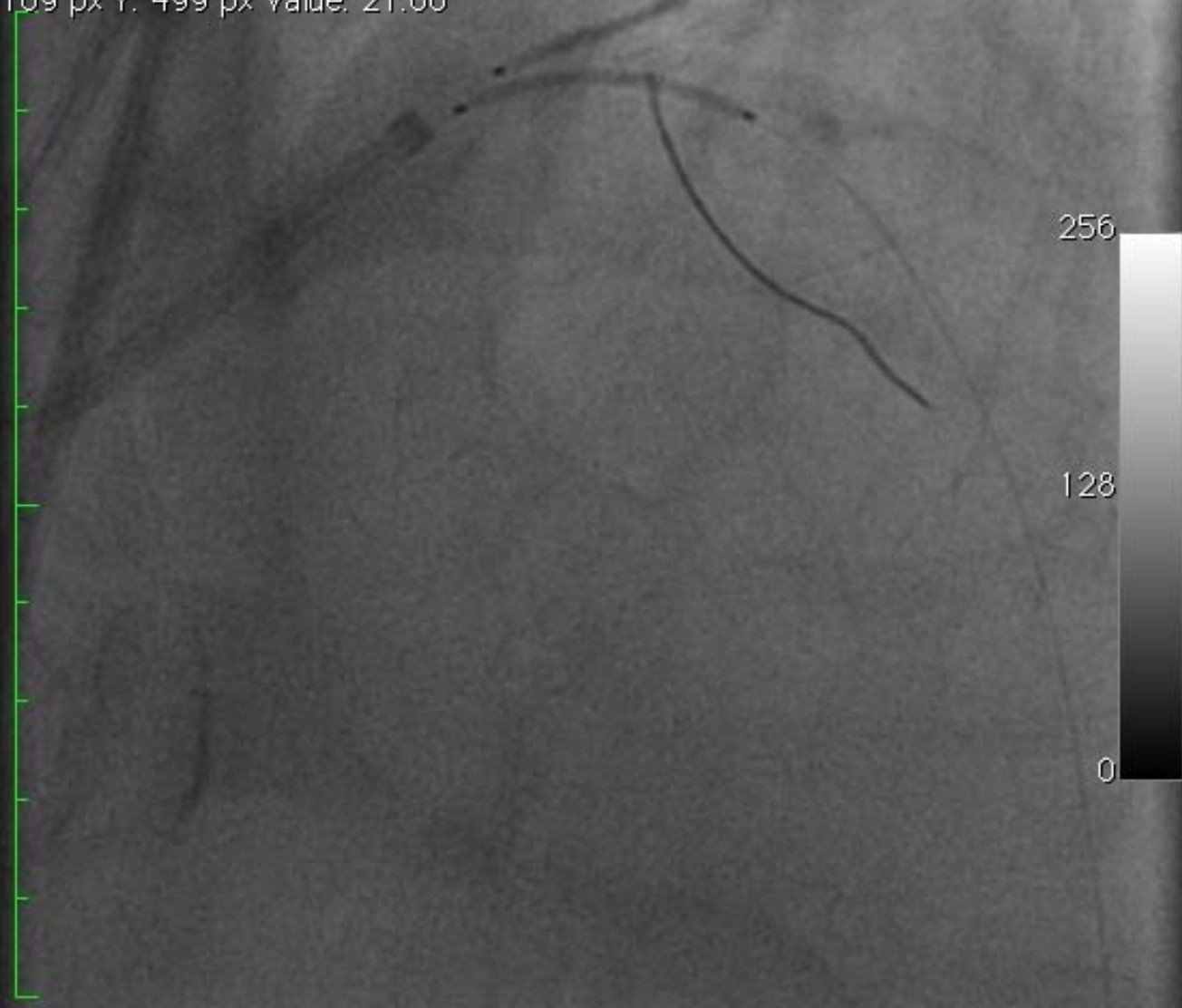


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28058 (80 y , 80 y)
Cardiac - Left Coronary 15 fps
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12



Zoom: 119% Angle: 0

Im: 1/37

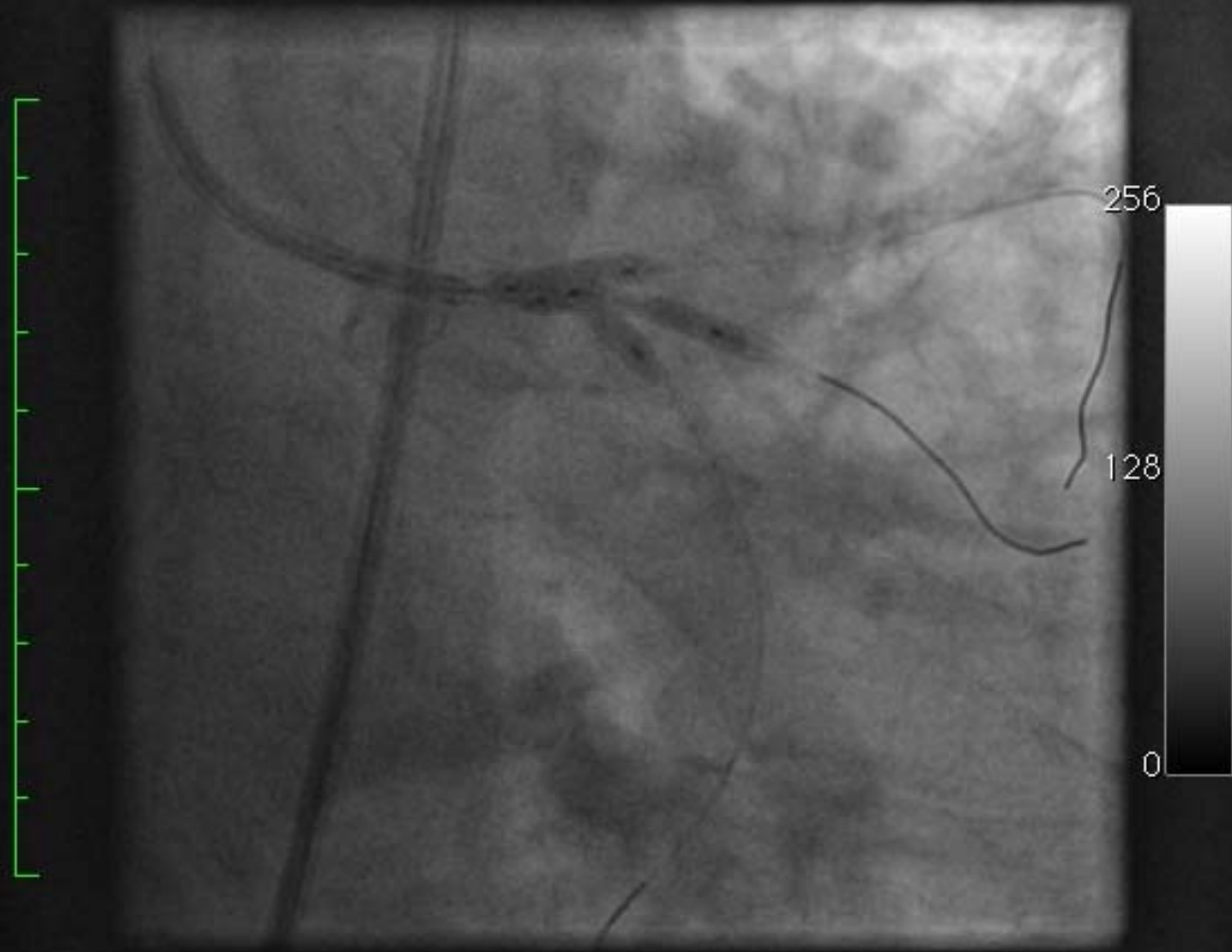
19/04/11 15.40.08

JPEGLossless:Non-hierarchical-1stOrderPrediction

Made In OsiriX

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28058 (80 y , 80 y)
Cardiac - Left Coronary 15 fps
R201104191404036
18



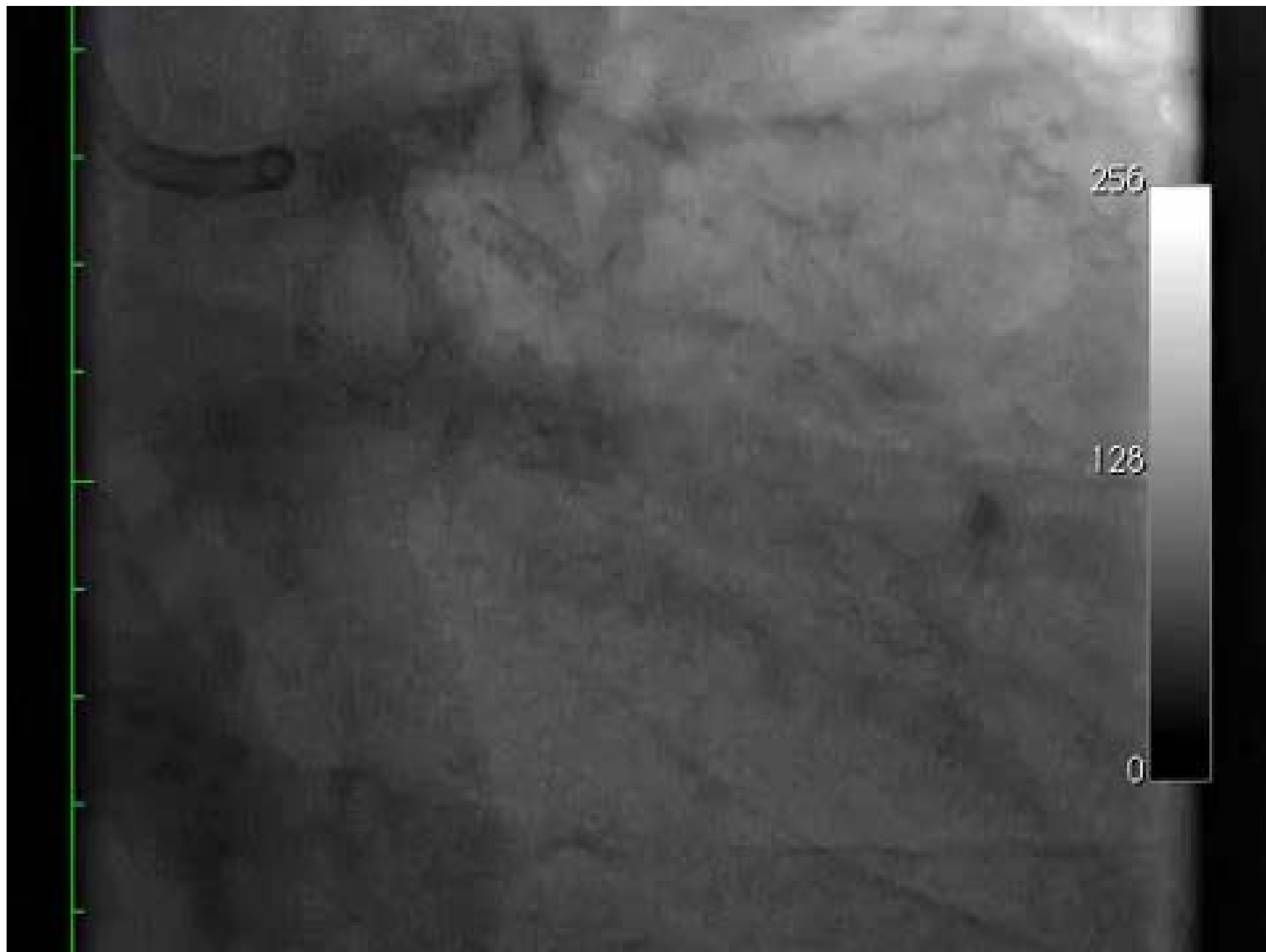
Zoom: 119% Angle: 0

Im: 1/10

JPEGLossless:Non-hierarchical-1stOrderPrediction

19/04/11 16.27.32

Made In OsirX



An approach for LMCA lesions when using 2 stents as intention to treat

Very short left main

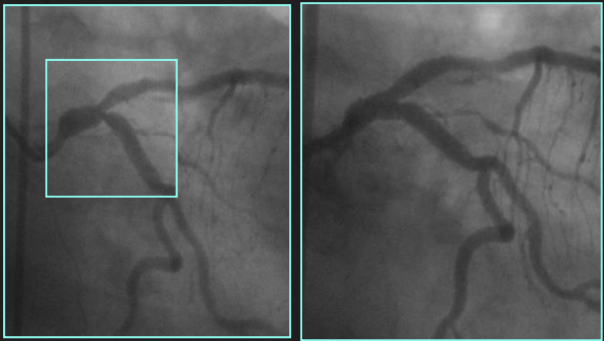
Main branch disease extending proximal to the bifurcation and side branch which has origin with about 90° angle

Main branch disease extending proximal to the bifurcation and side branch which has origin with about 60° angle

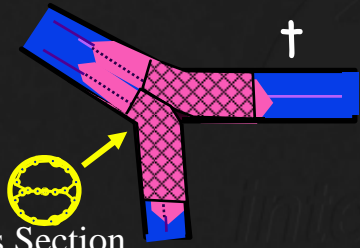
V-Stent

T-Stent

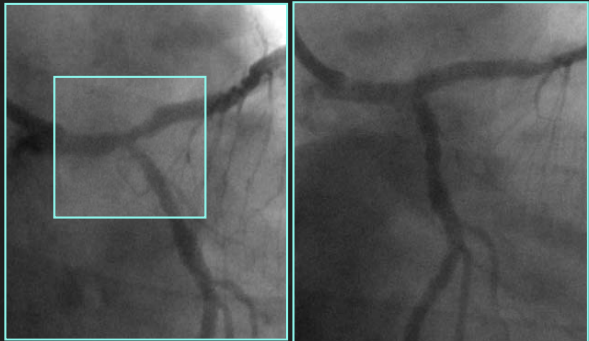
Short-Mini Crush/Culotte



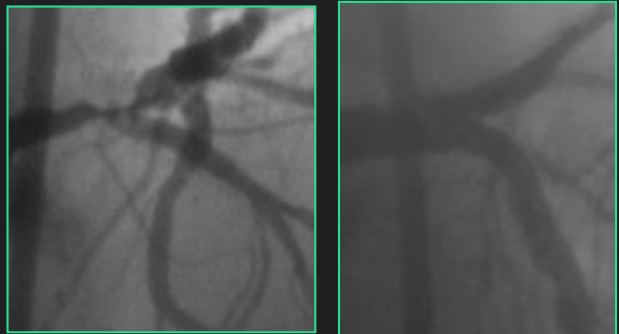
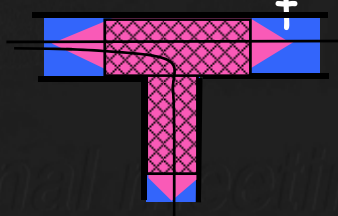
Pre Pos
†



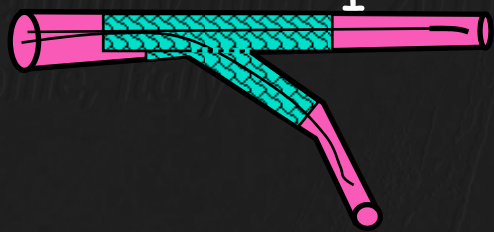
Cross Section



Pre Pos
†



Pre Pos
†

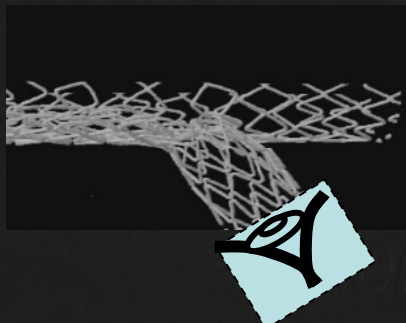
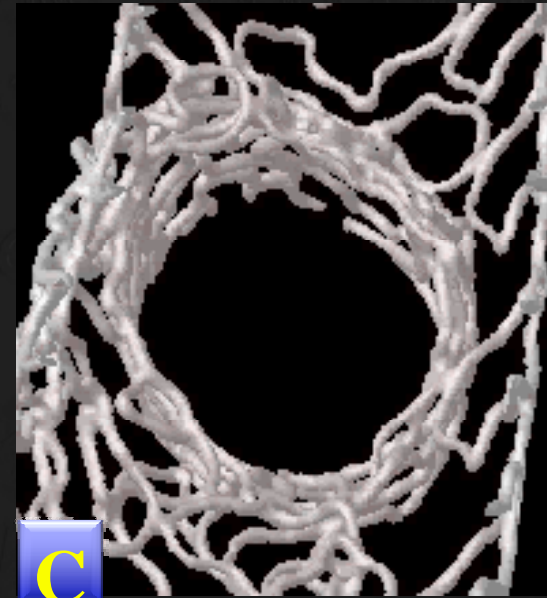
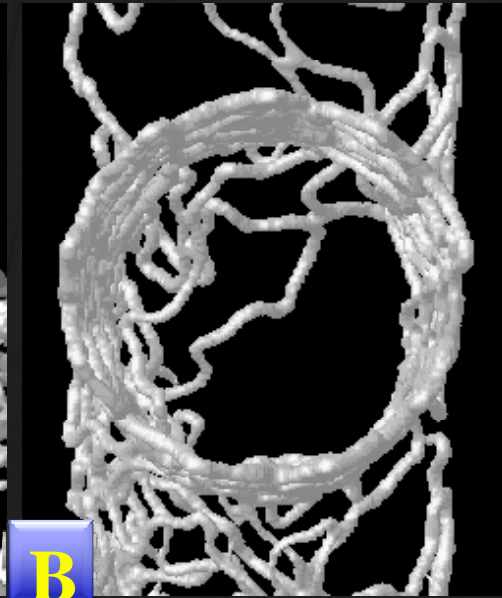
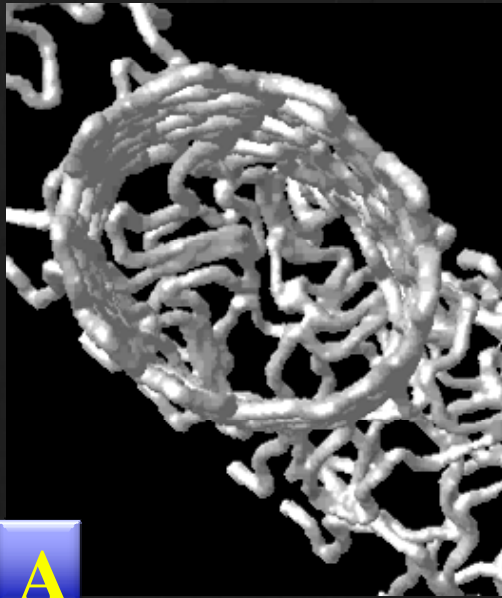


2-Step Kiss

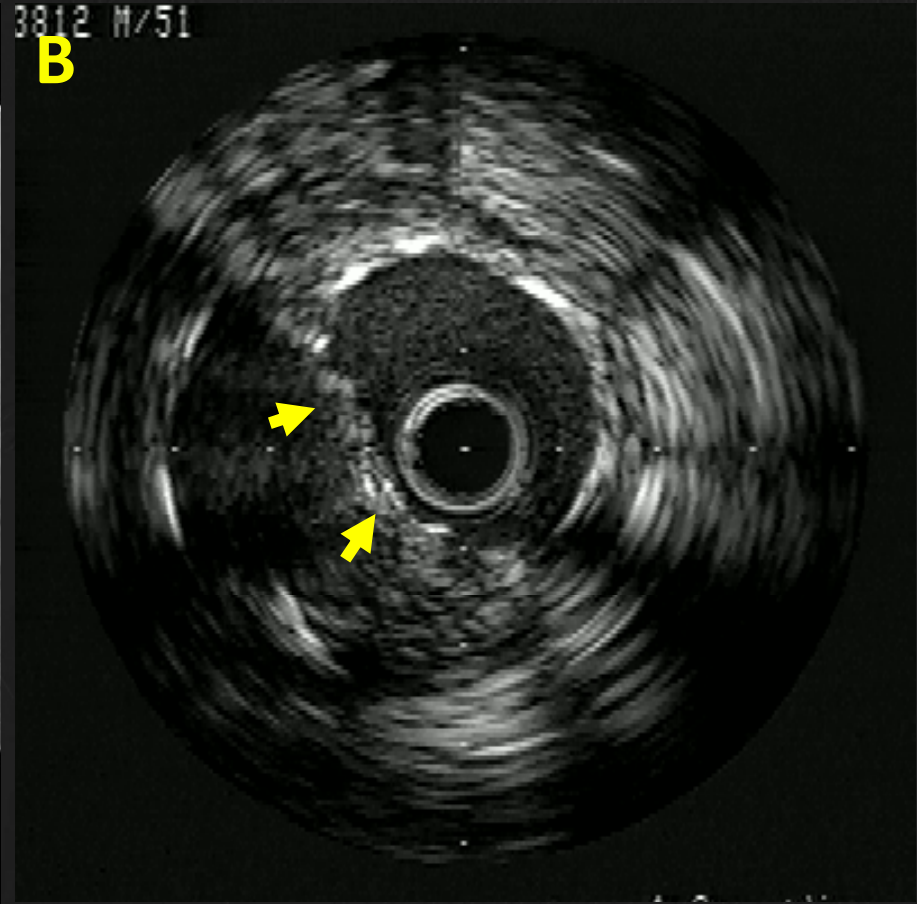
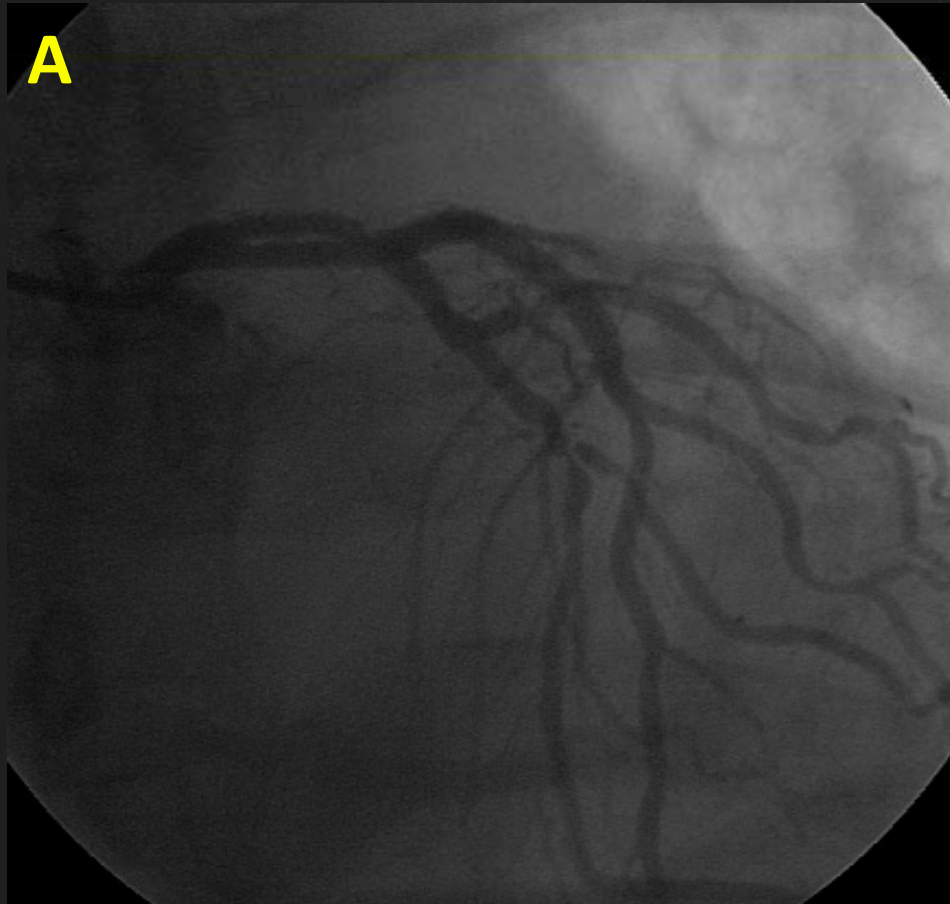
No Kiss

One-step Kiss

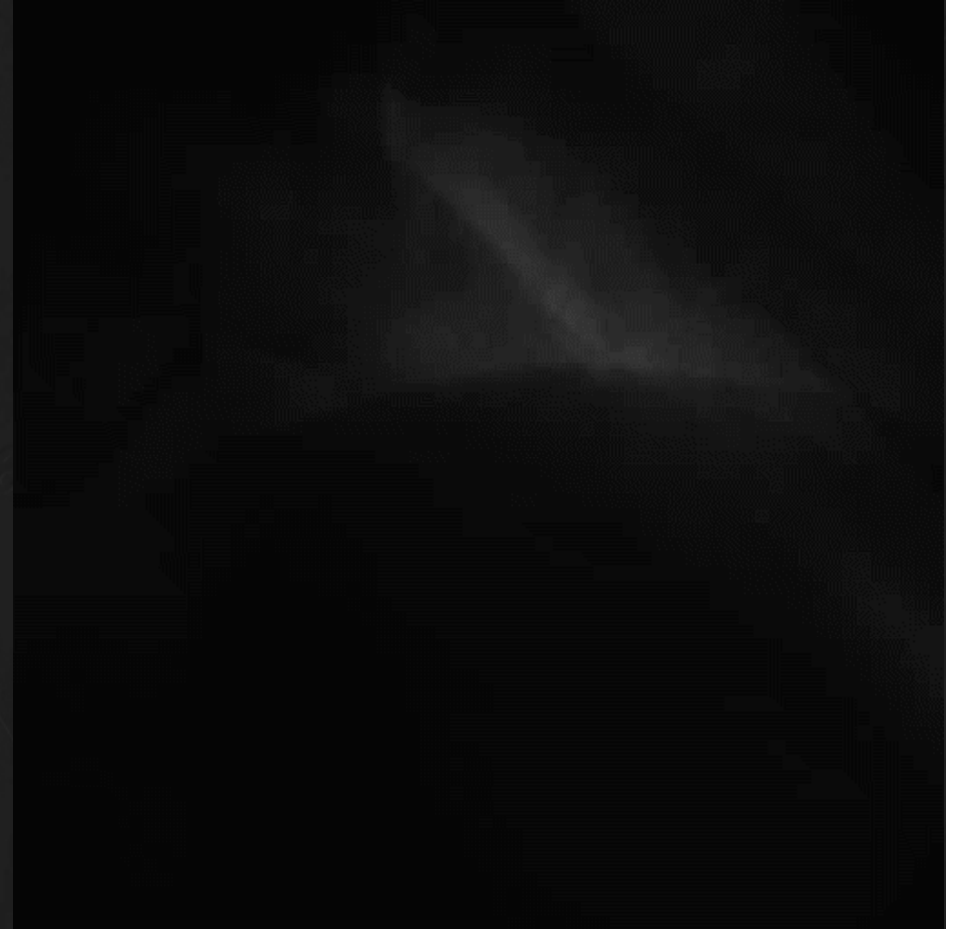
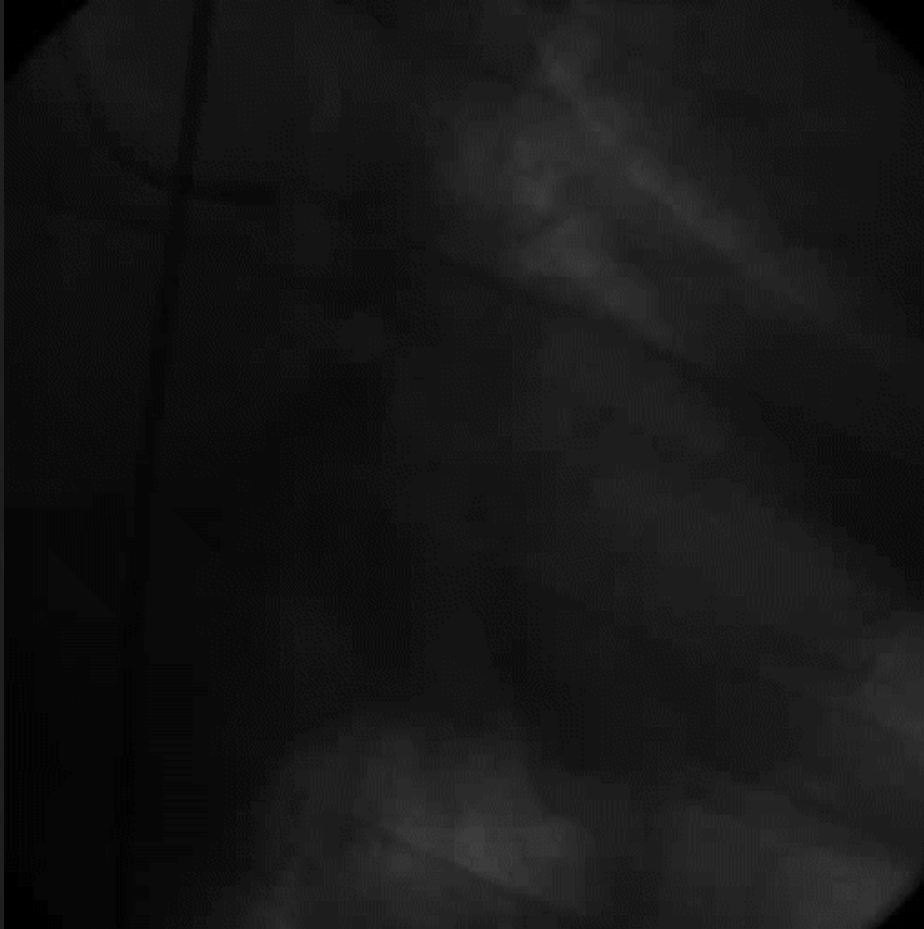
Two-step Kiss



SKS



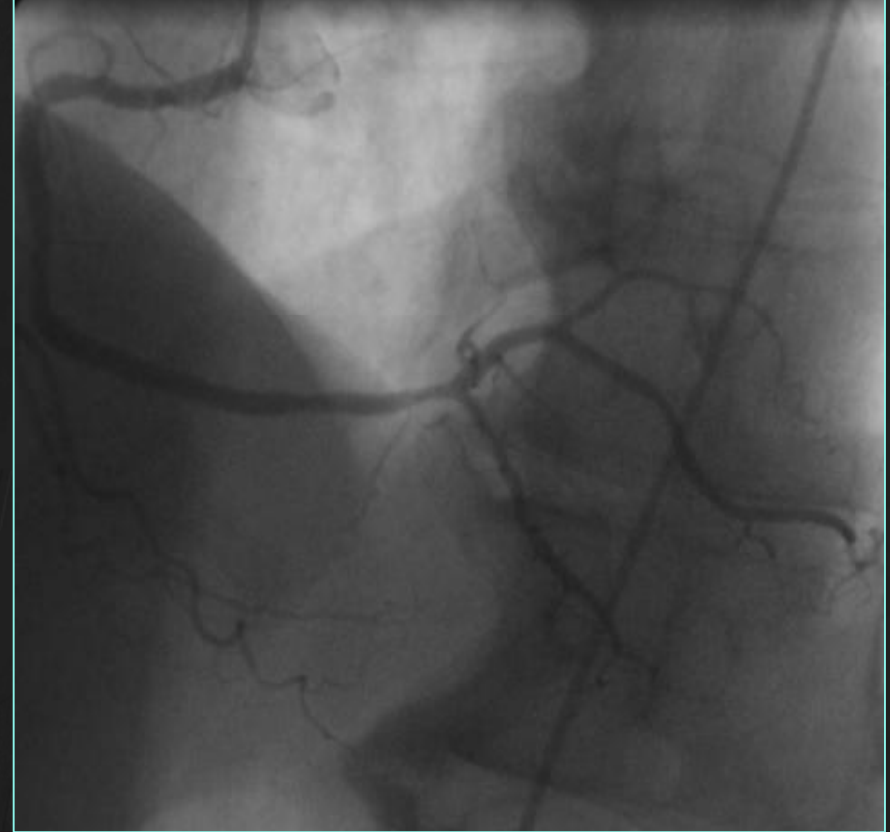
Left Main Trifurcation



Baseline

HSR 60206/10

Left Main Trifurcation

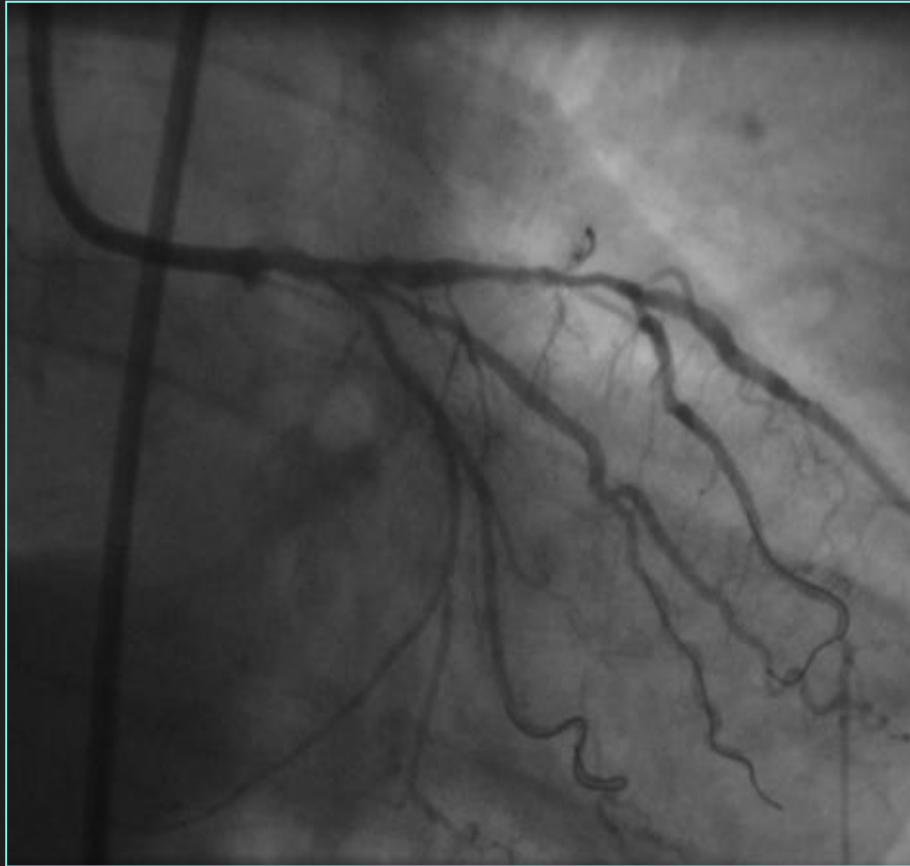


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Baseline

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Left Main Trifurcation



Following Left Main
Predilatation



Dilatation Intermediate
Branch

Left Main Trifurcation

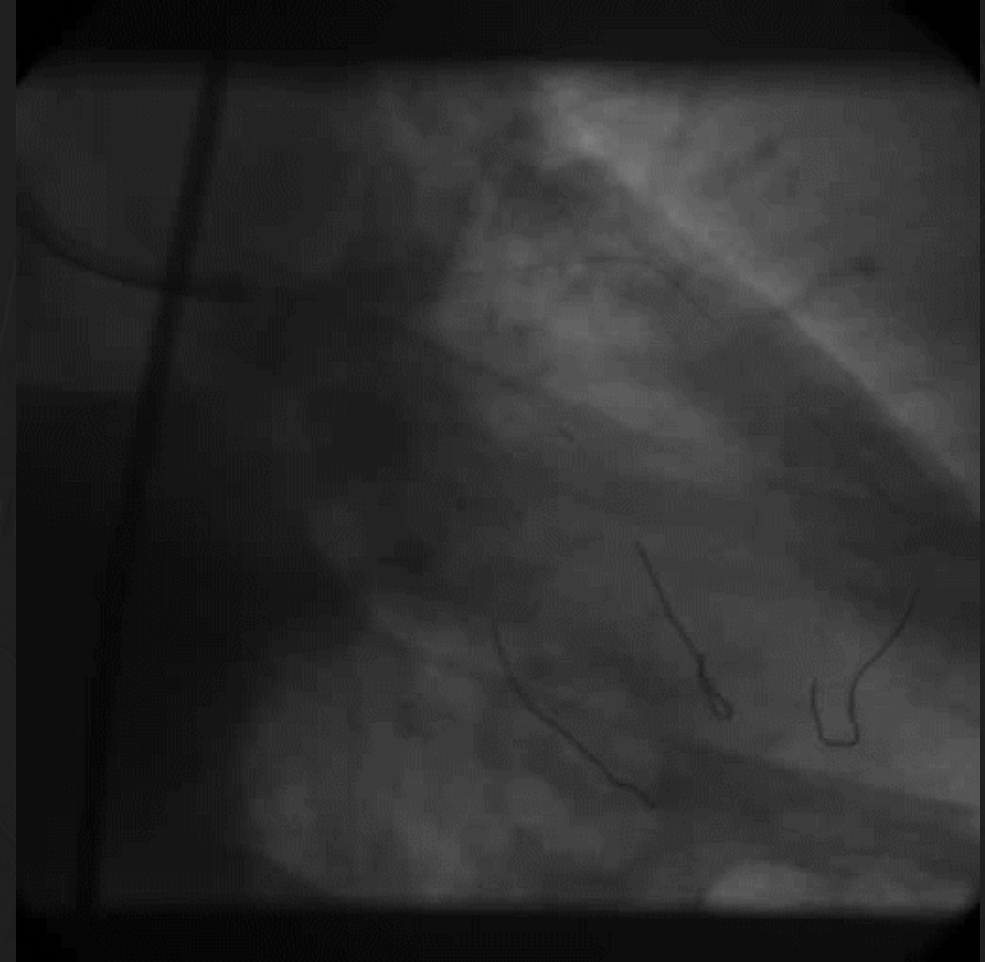


Following Dilatation Intermediate Branch

Left Main Trifurcation

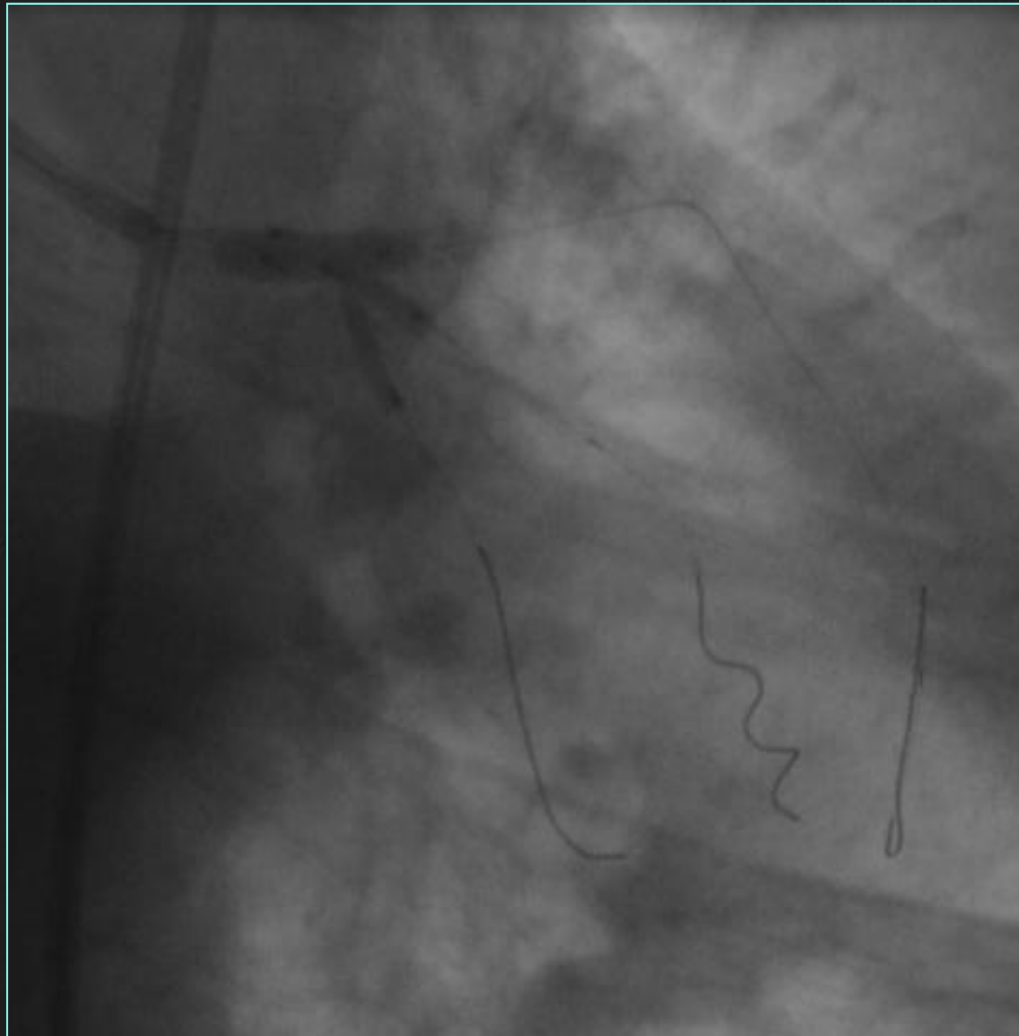


Stenting LM-LAD



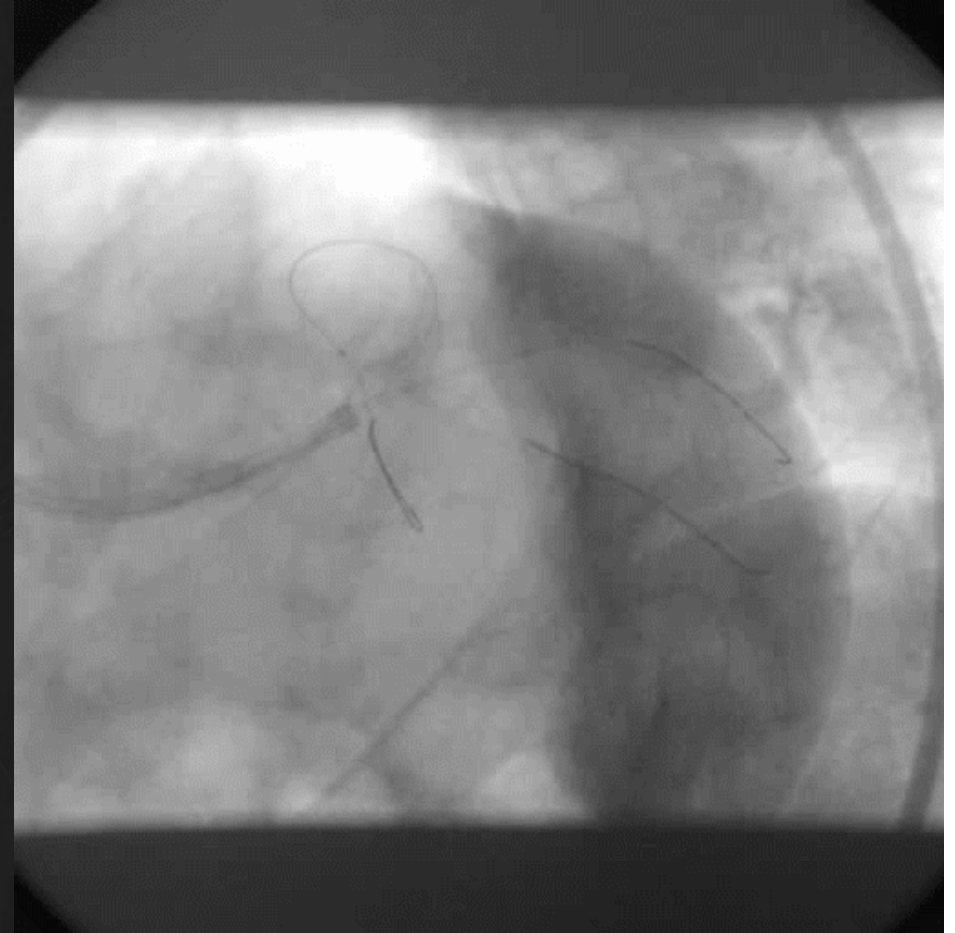
Following Stenting LM-LAD

Left Main Trifurcation



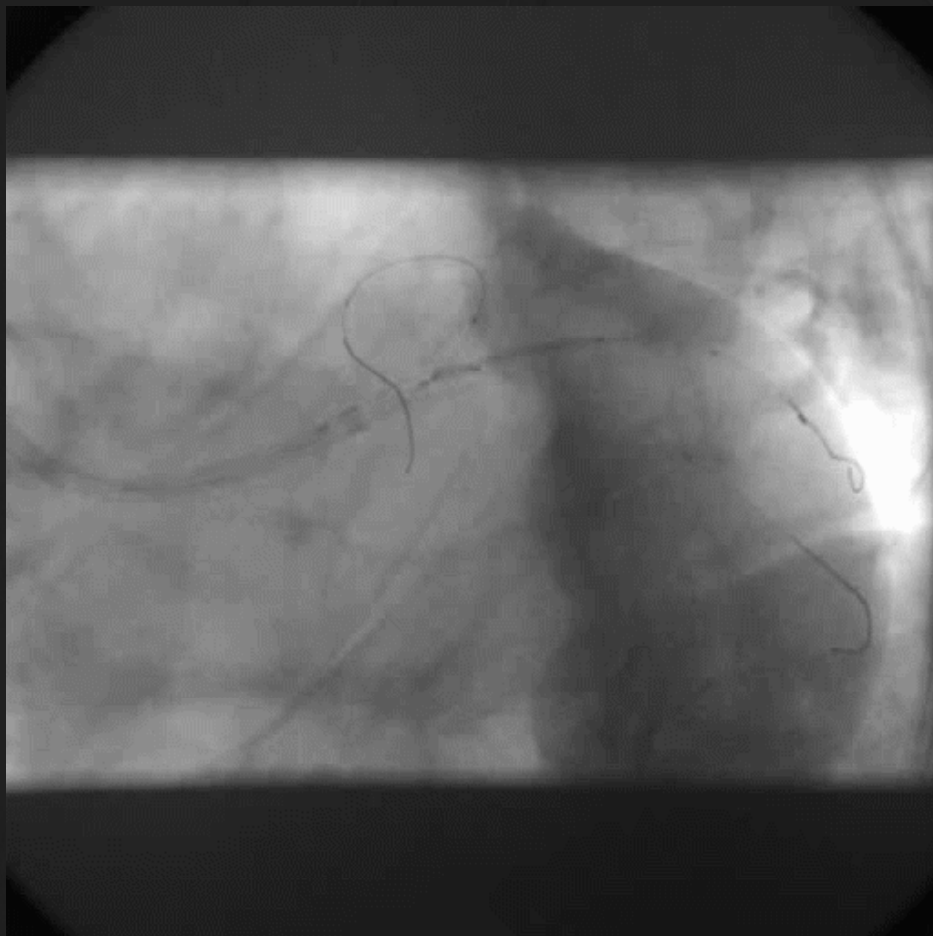
Kissing Balloon Inflation

Left Main Trifurcation



Following Kissing Balloon Inflation

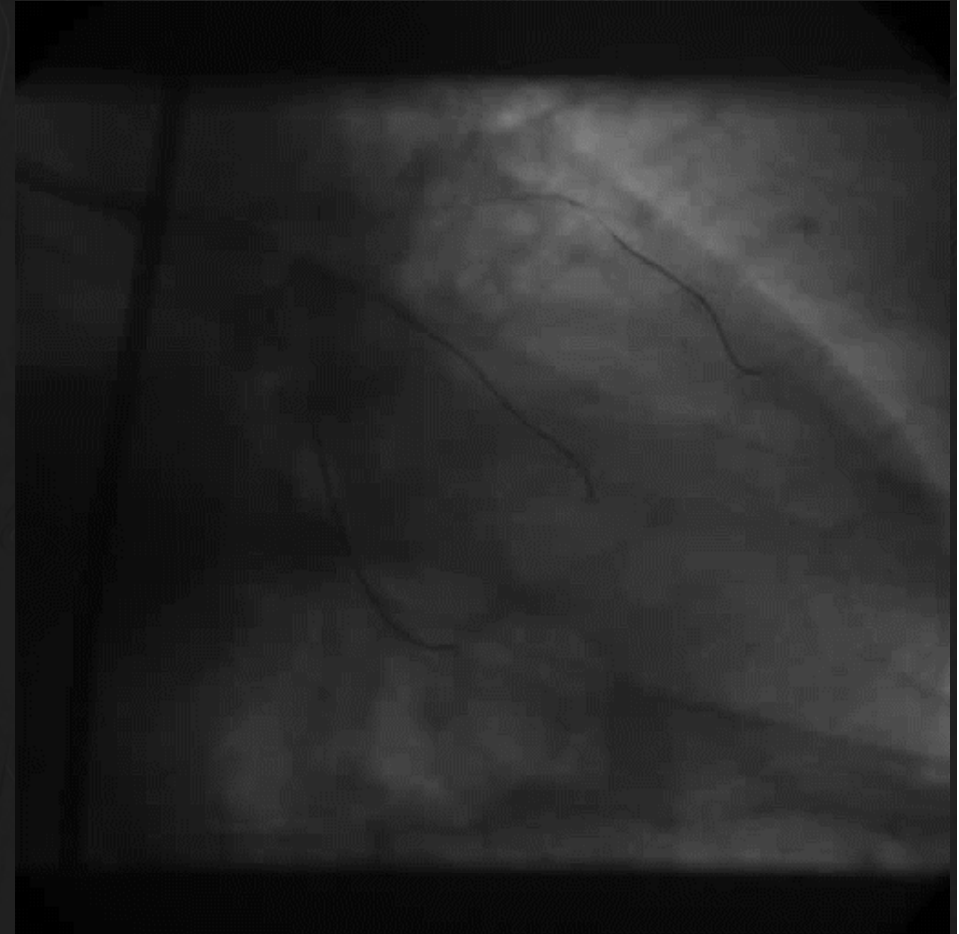
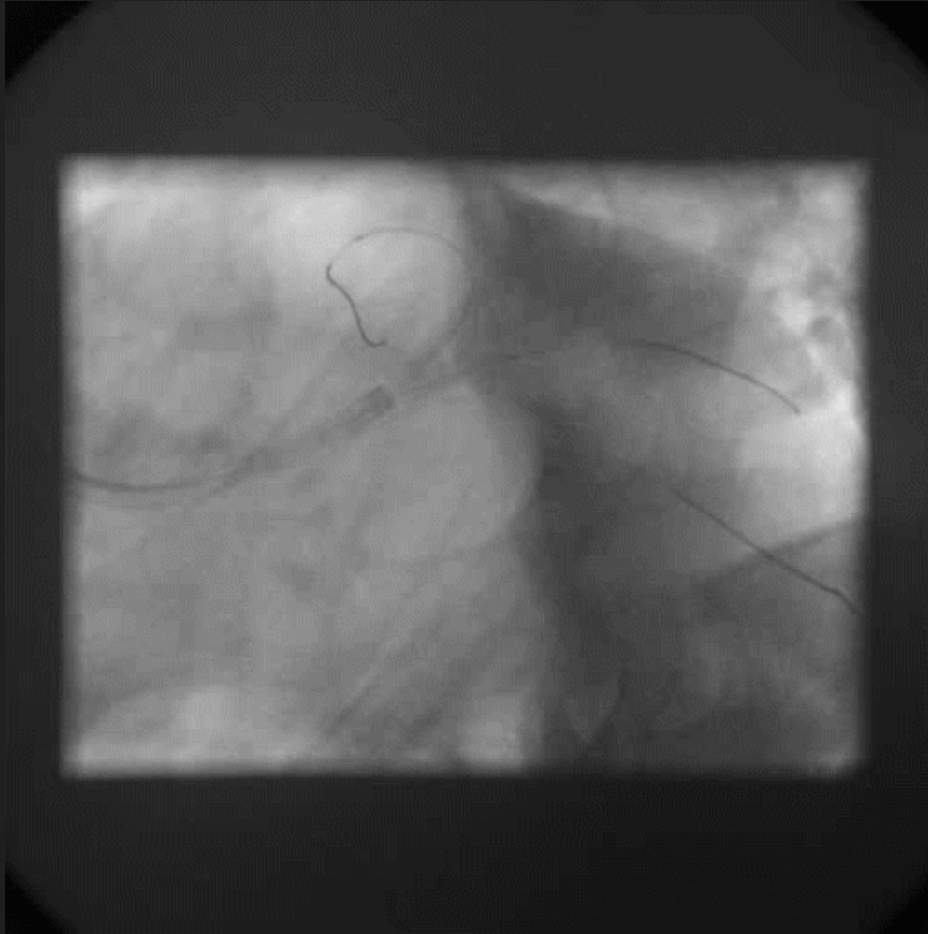
Left Main Trifurcation



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Rome, Italy

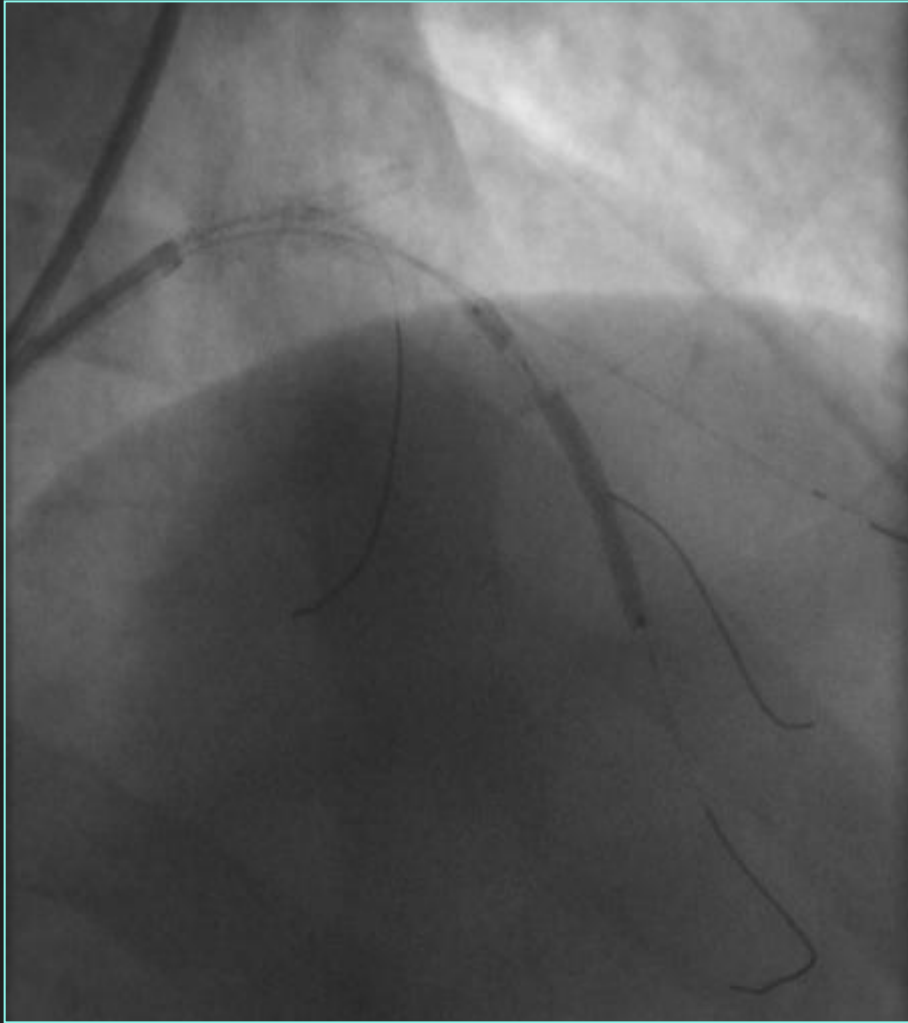
Positioning Intermediate Stent - TAP technique

Left Main Trifurcation



Following Intermediate Stent and Kissing

Left Main Trifurcation

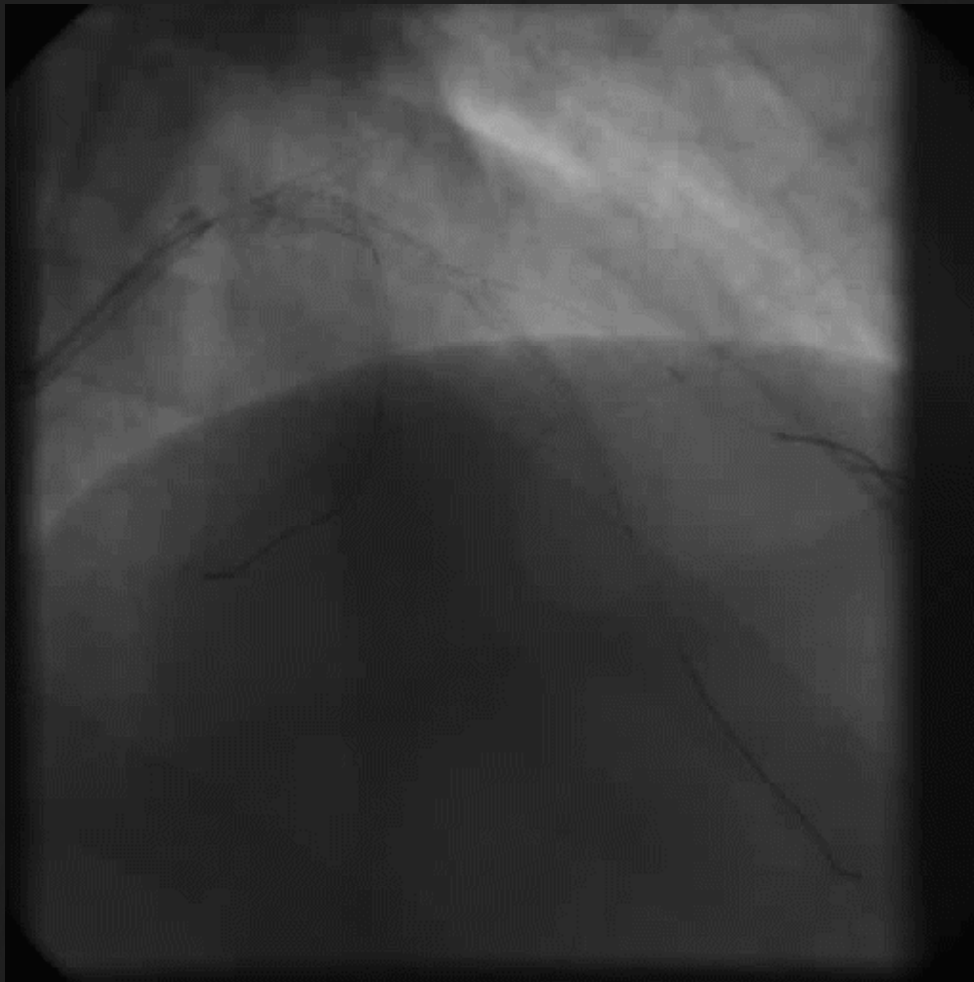


Mid LAD and Diag Dilatation



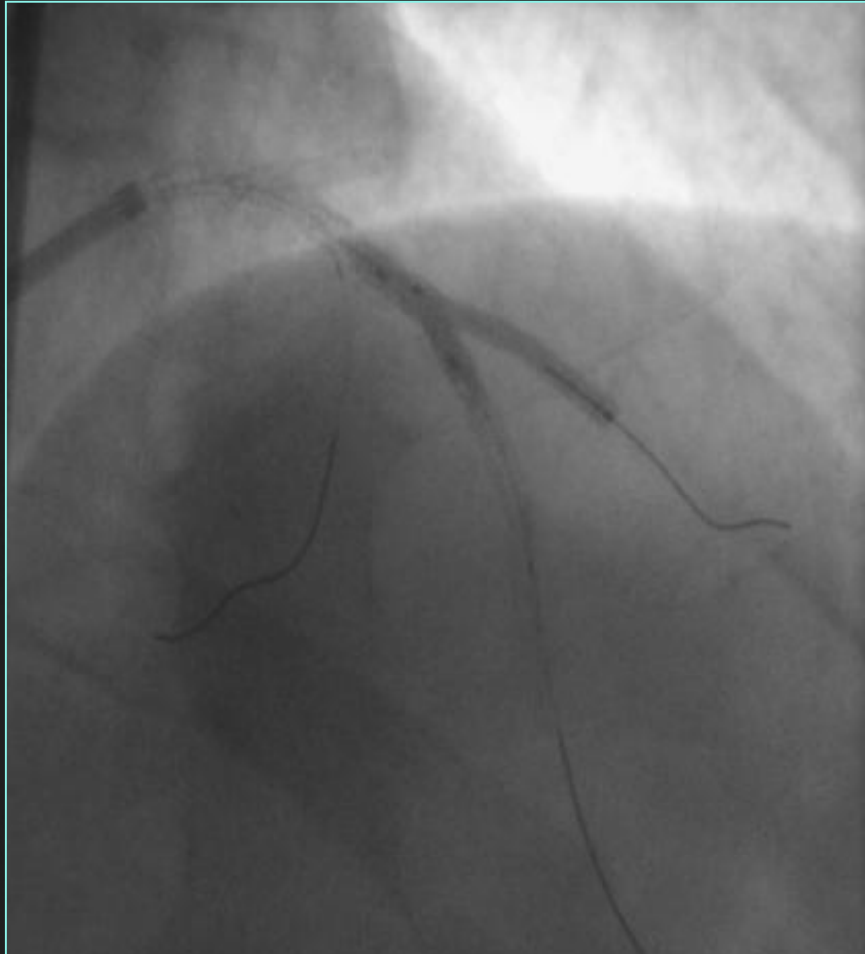
Mid LAD Stenting

Left Main Trifurcation

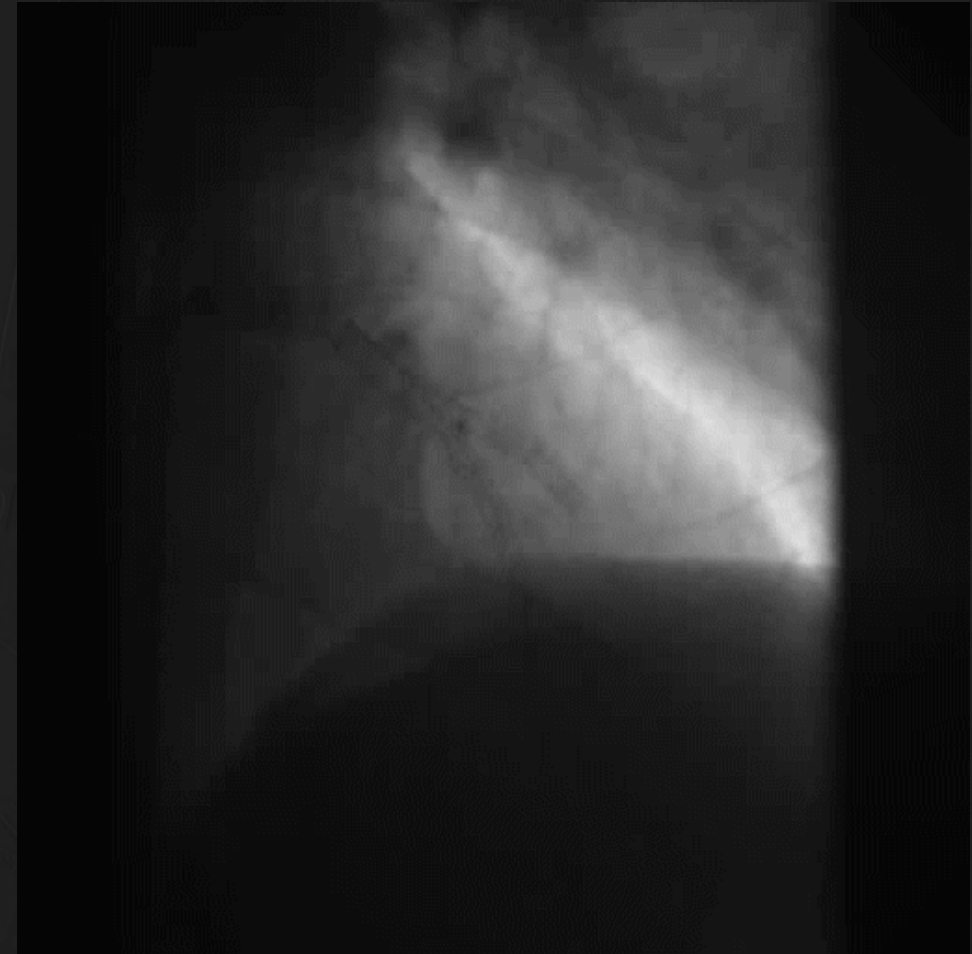


Following Mid LAD Stenting
Provisional for Diag Branch

Left Main Trifurcation

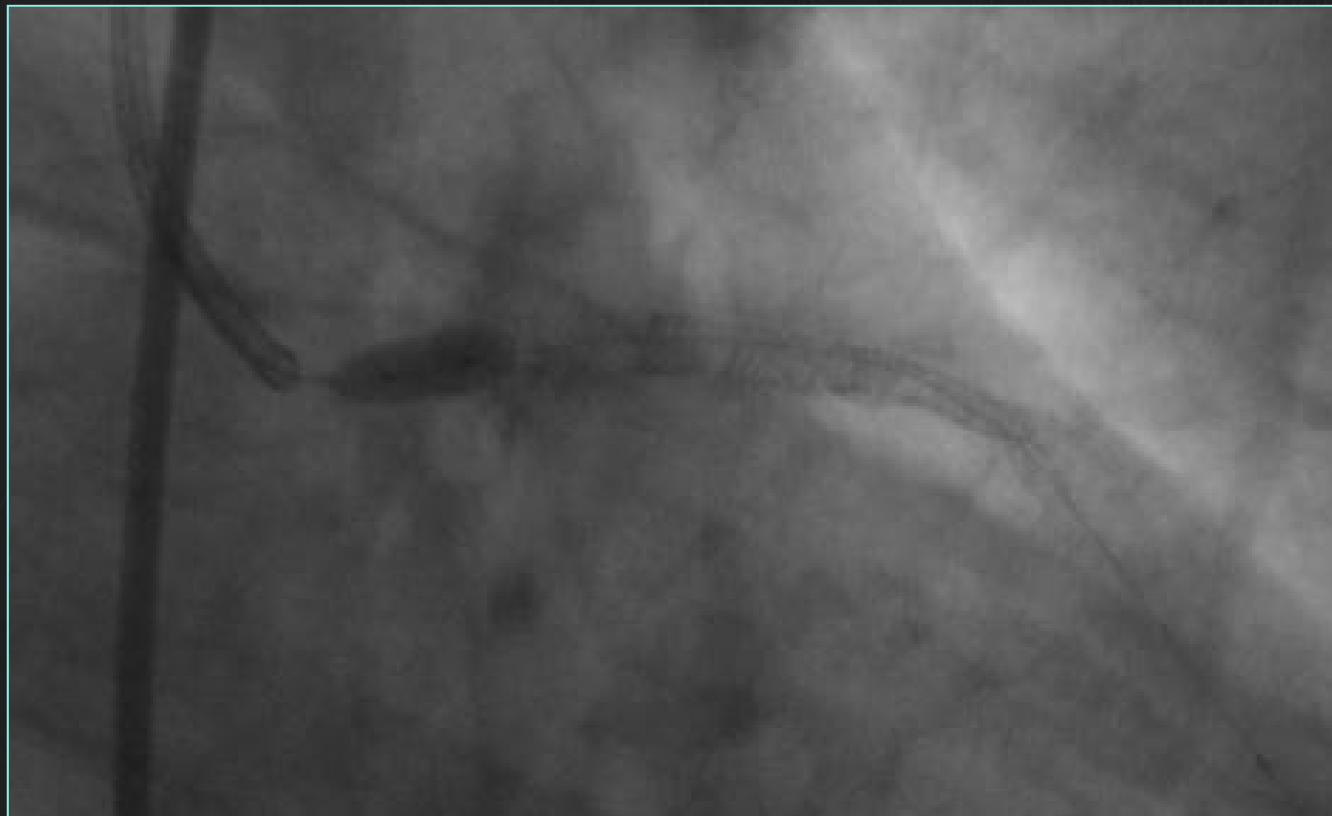


TAP technique
Diagonal Branch



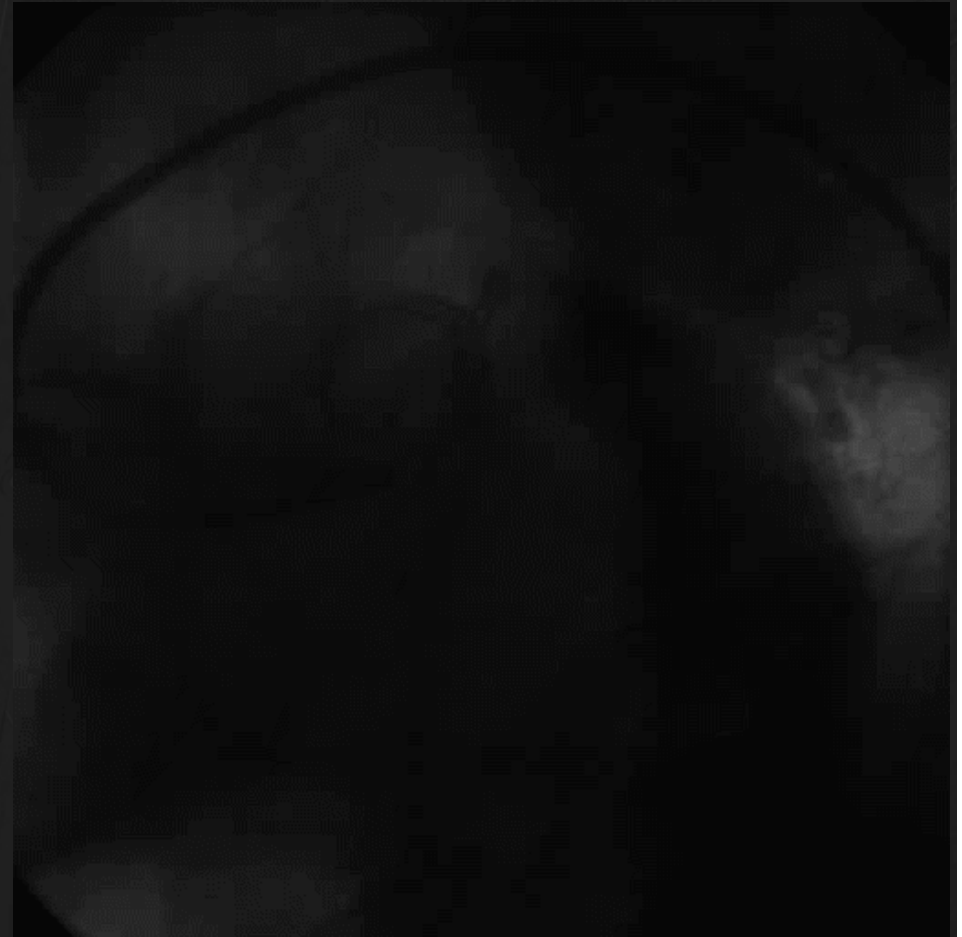
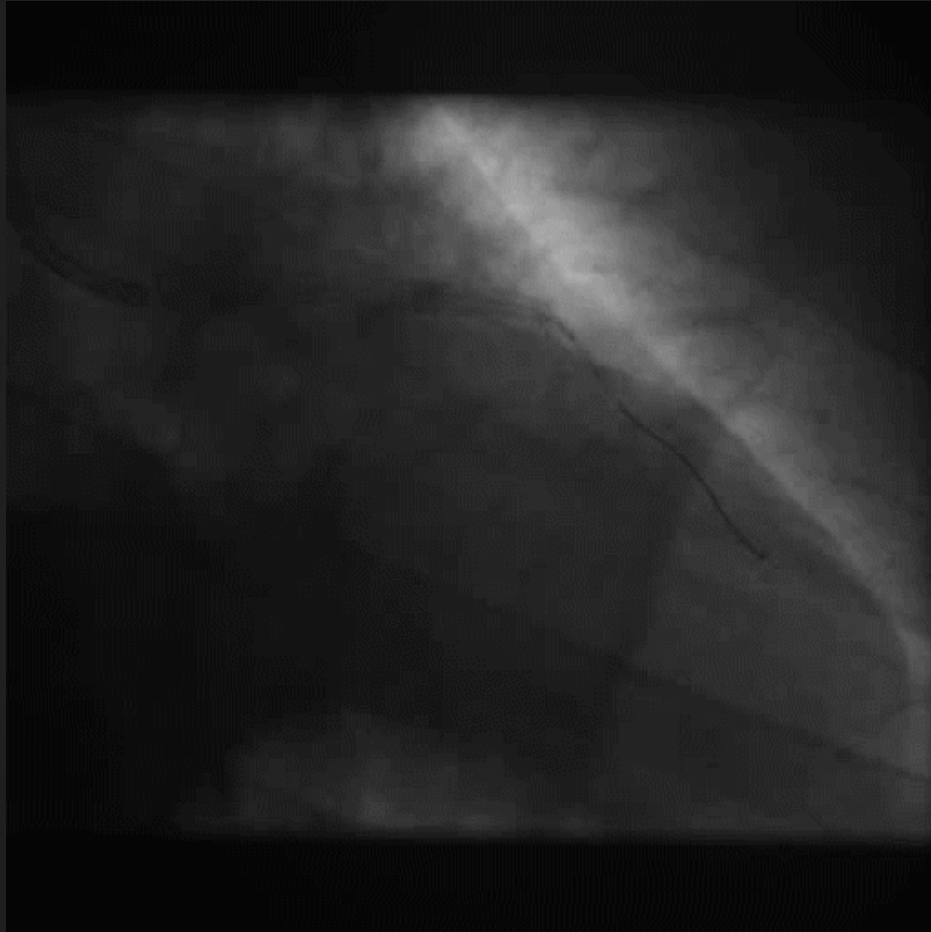
Following stent Diagonal Branch

Left Main Trifurcation



Post dilatation Left Main Body

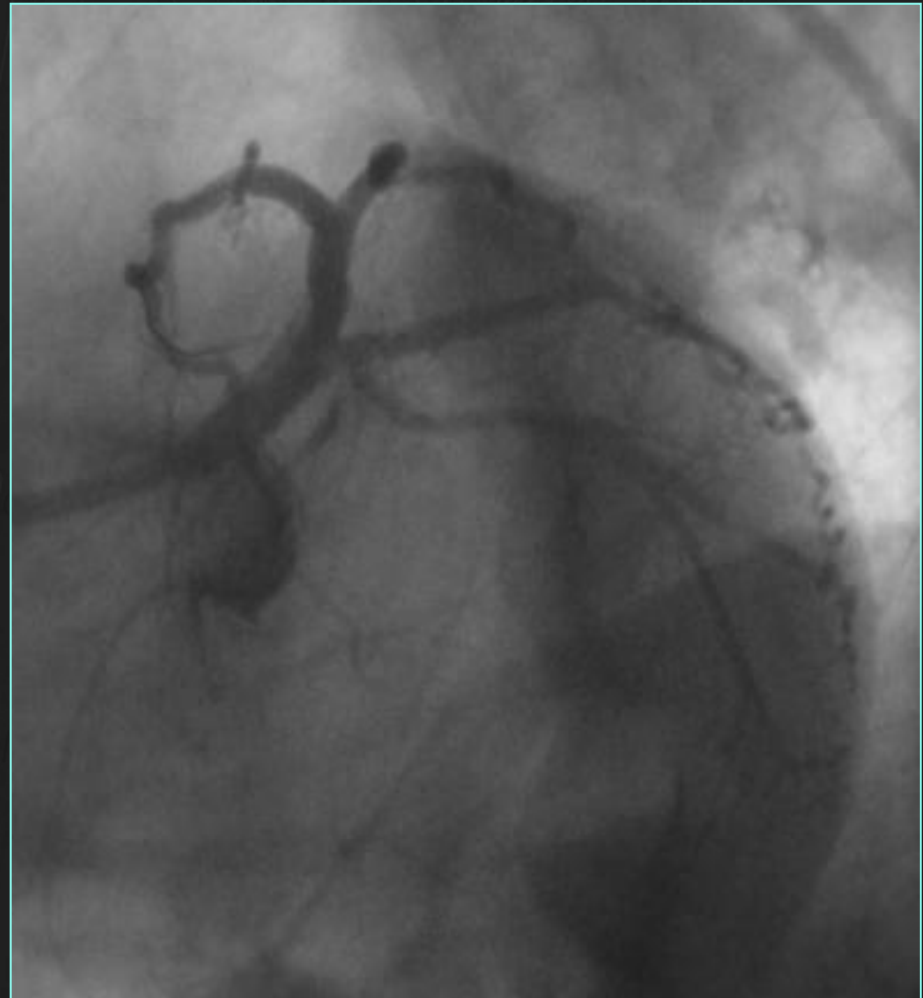
Left Main Trifurcation



Final Result

HSR 60206/10

Left Main Trifurcation



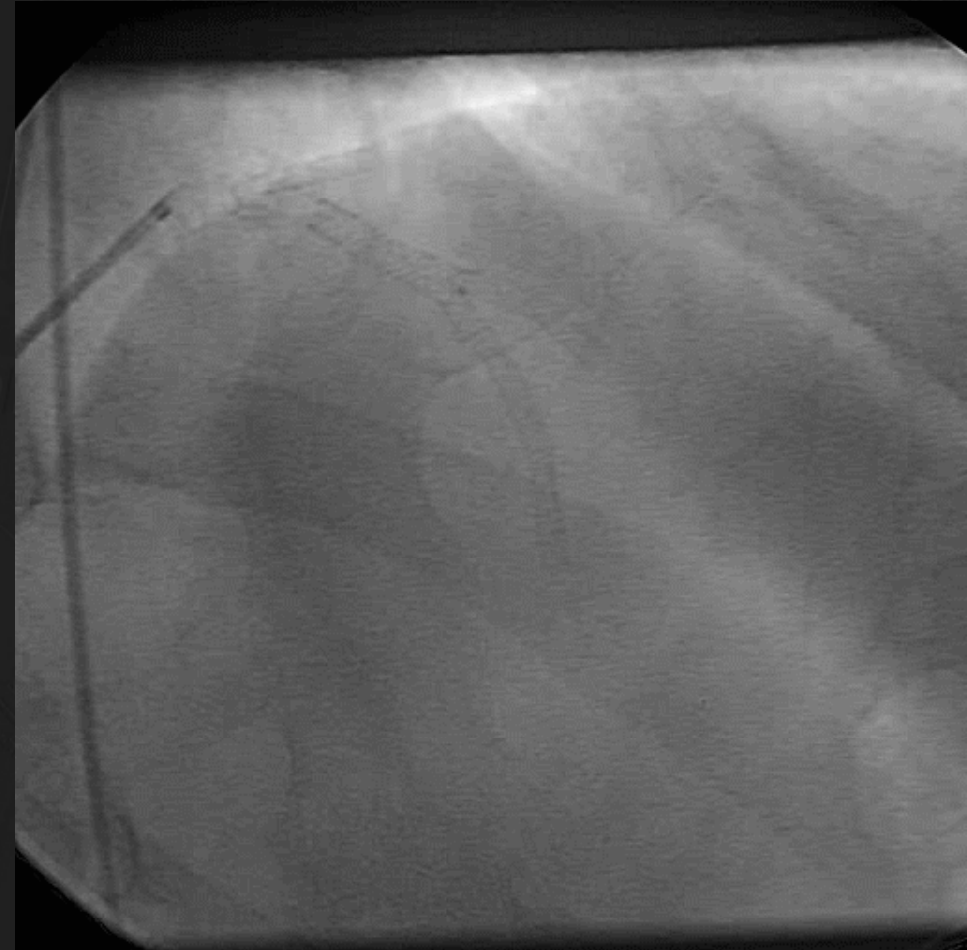
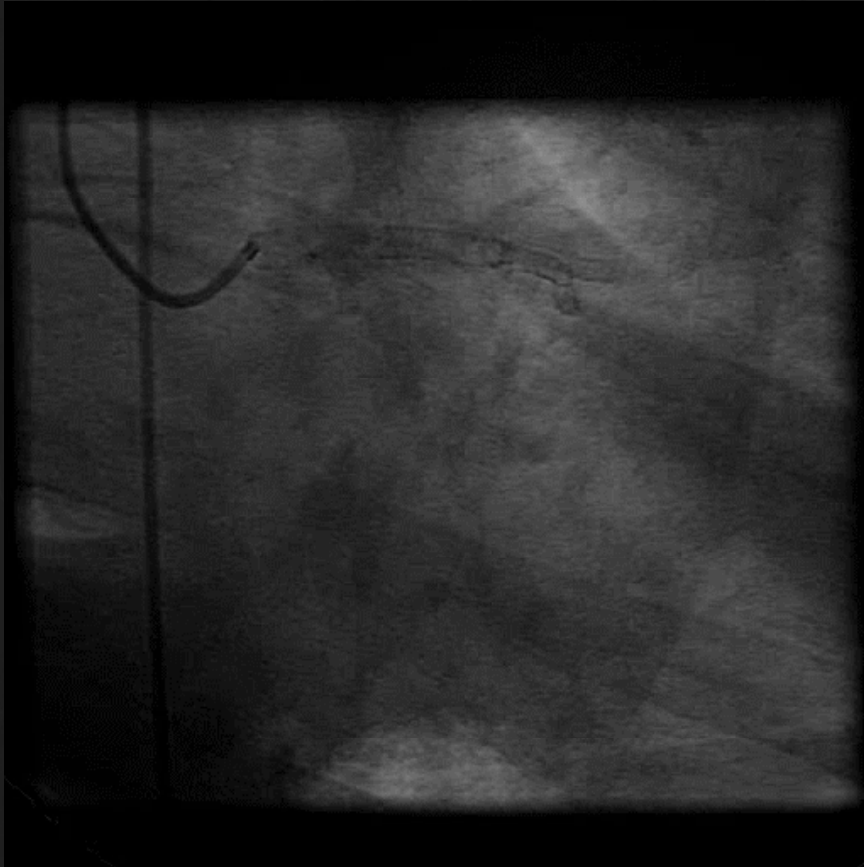
Final Result

Left Main Trifurcation



6-Months F-UP

- Patient Asymptomatic
- Negative Maximal Stress Test

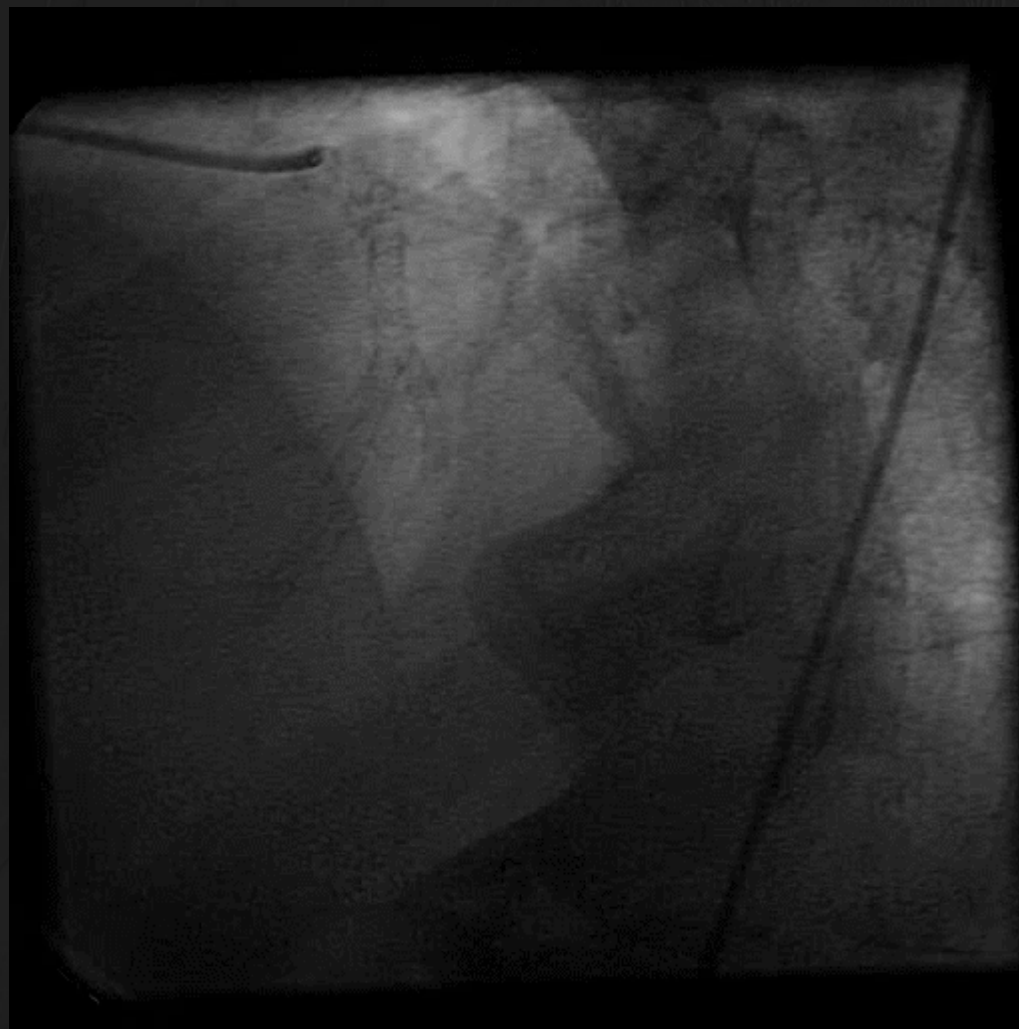


Left Main Trifurcation



6-Months F-UP

- Patient Asymptomatic
- Negative Maximal Stress Test

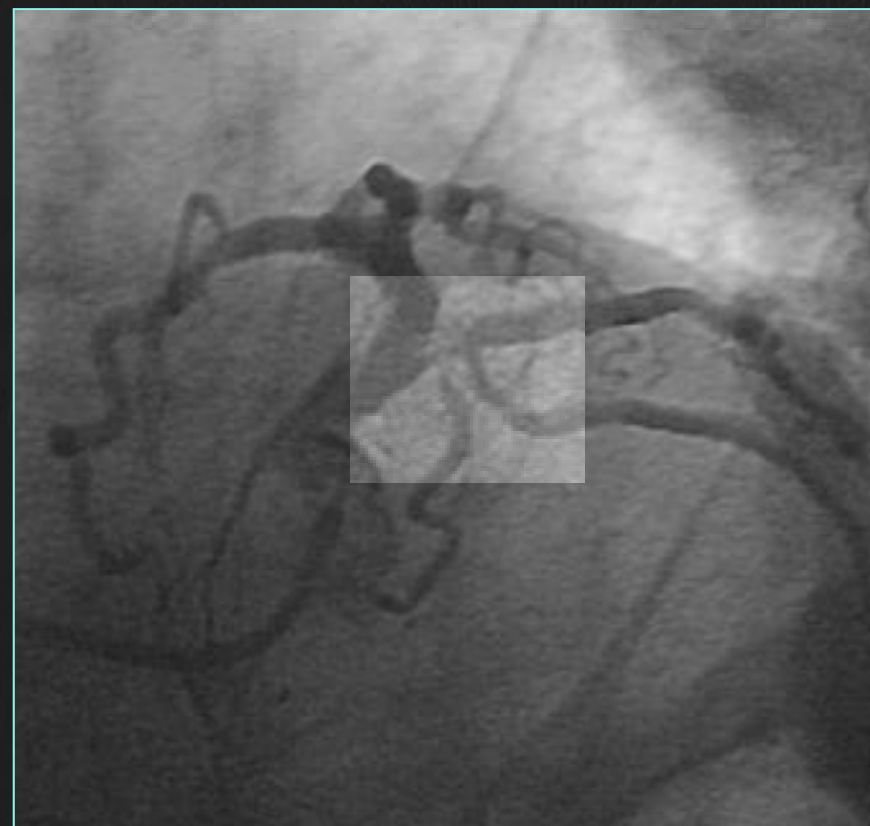
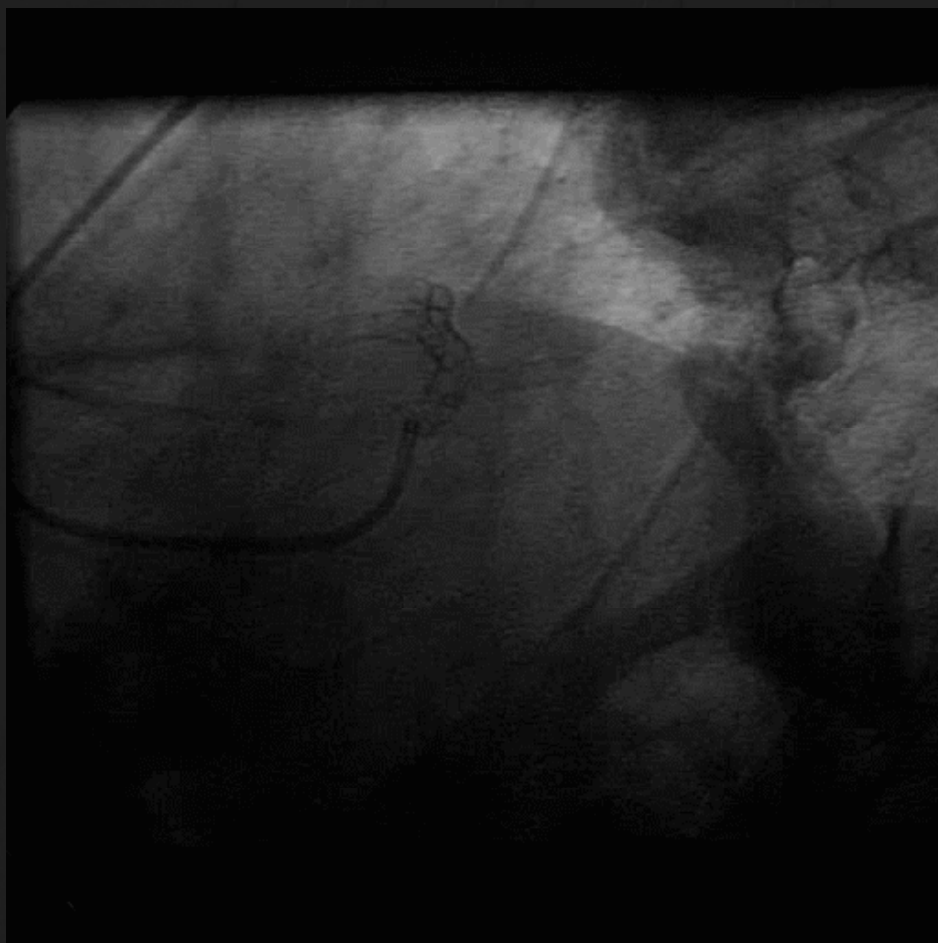


Left Main Trifurcation



6-Months F-UP

- Patient Asymptomatic
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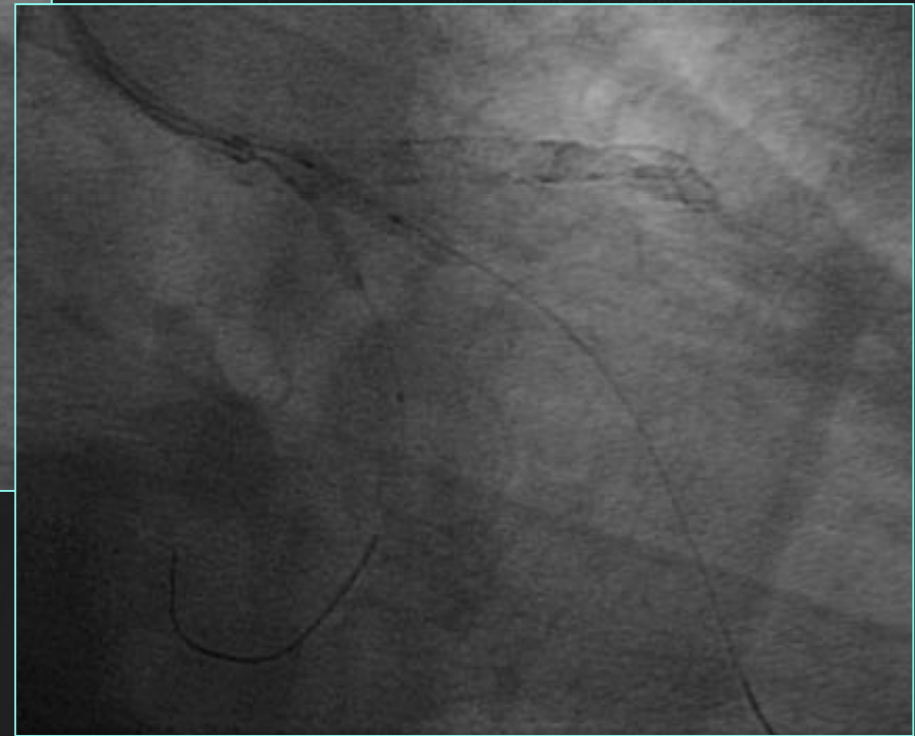
International meeting

HSR 60206/10

Left Main Trifurcation



6-Months F-UP

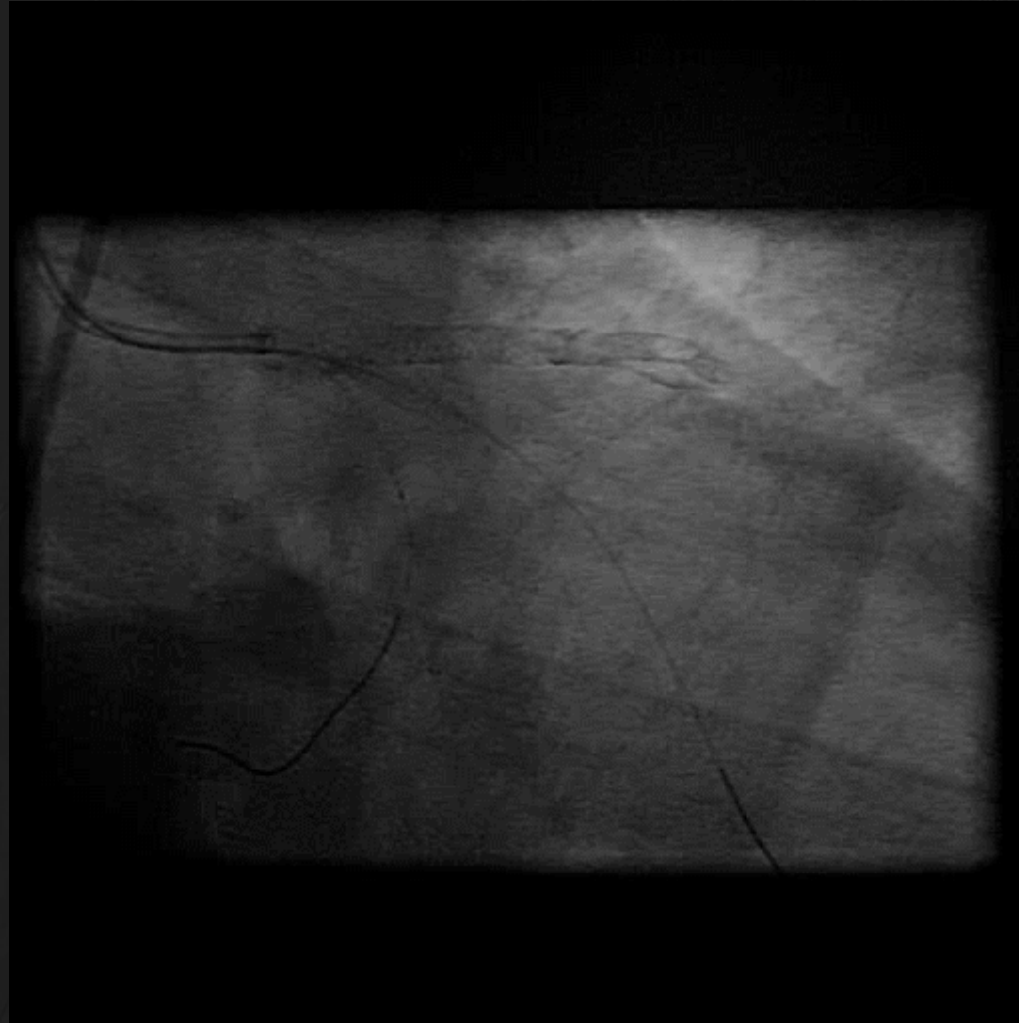


Balloon Dilatation CX-Intermediate

Left Main Trifurcation



6-Months F-UP

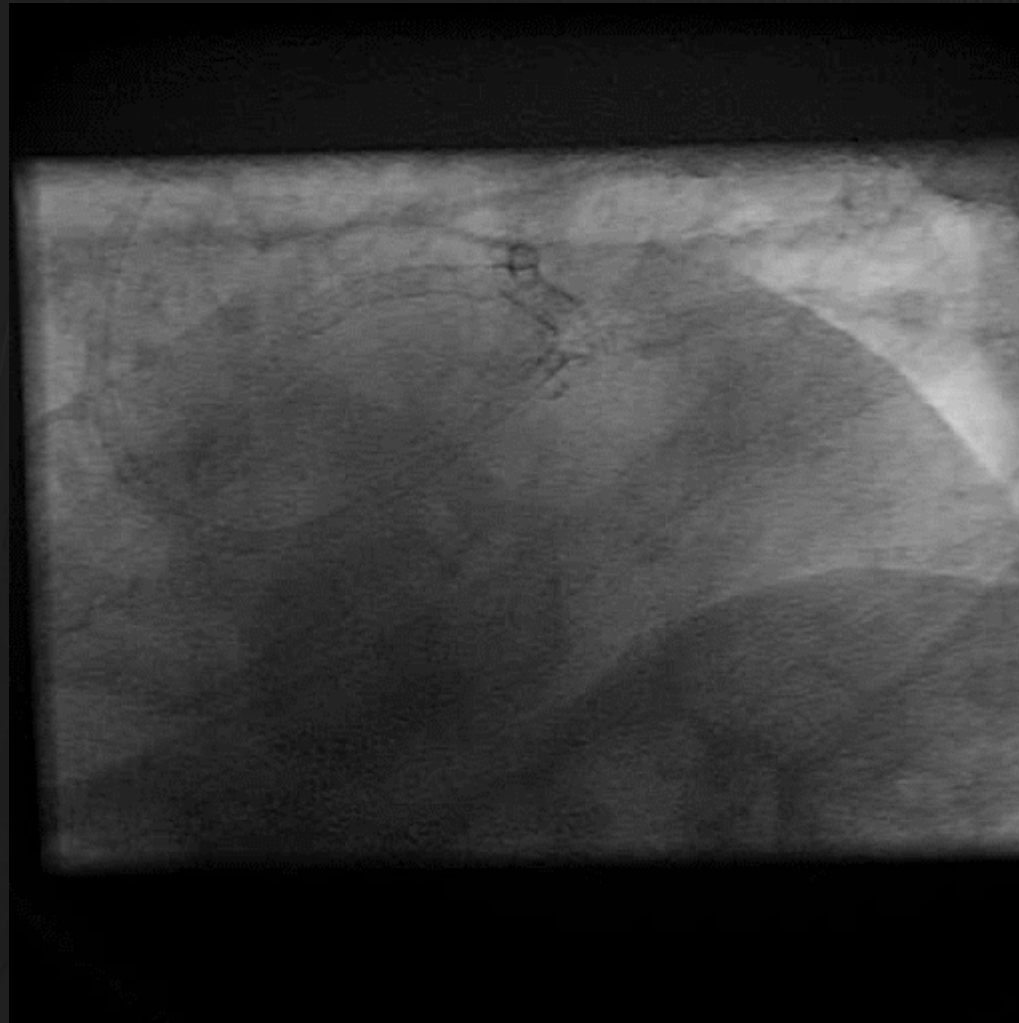


Following Dilatation CX-Intermediate

Left Main Trifurcation



6-Months F-UP



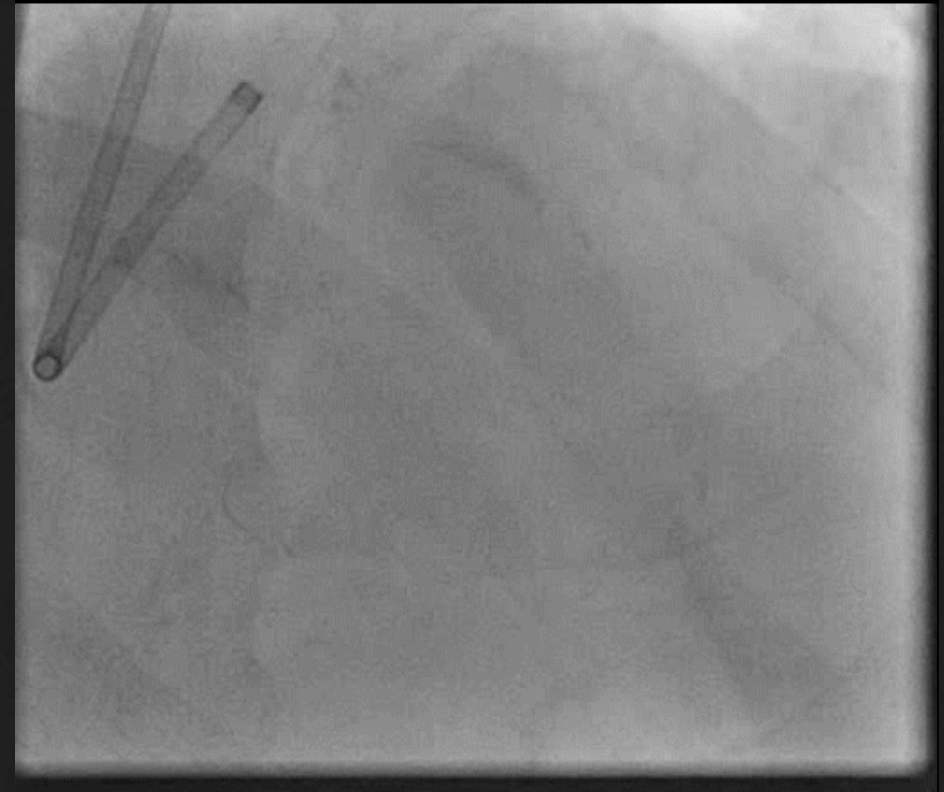
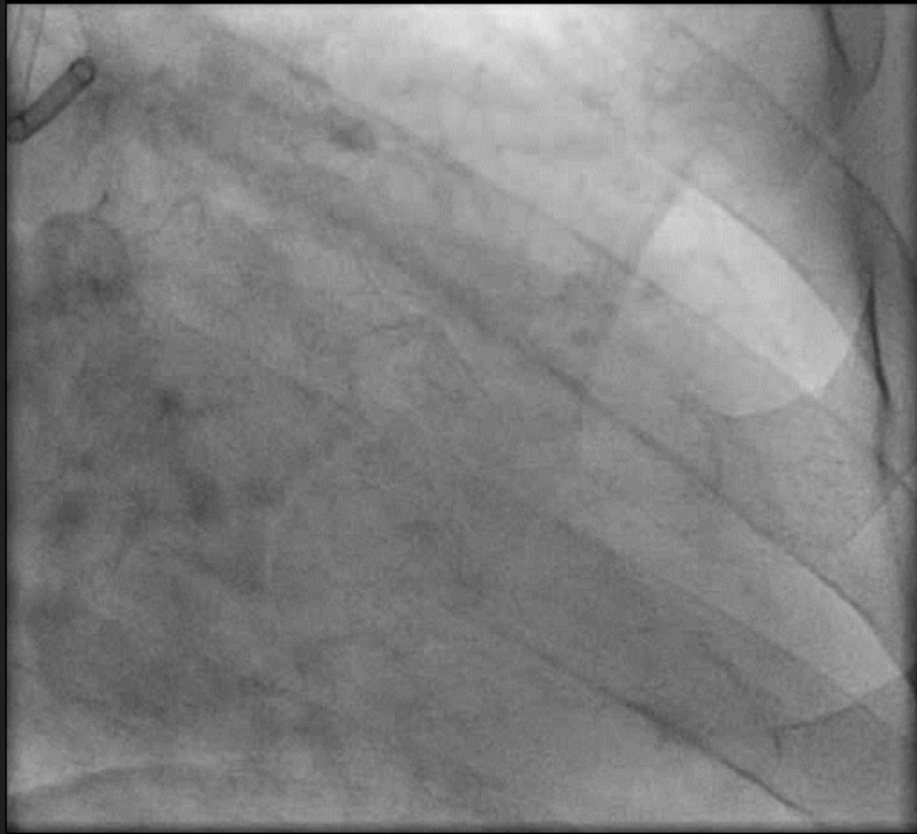
Final Result

CASE 2

Joint interventional meeting

*February 10-12, 2011
Rome, Italy*

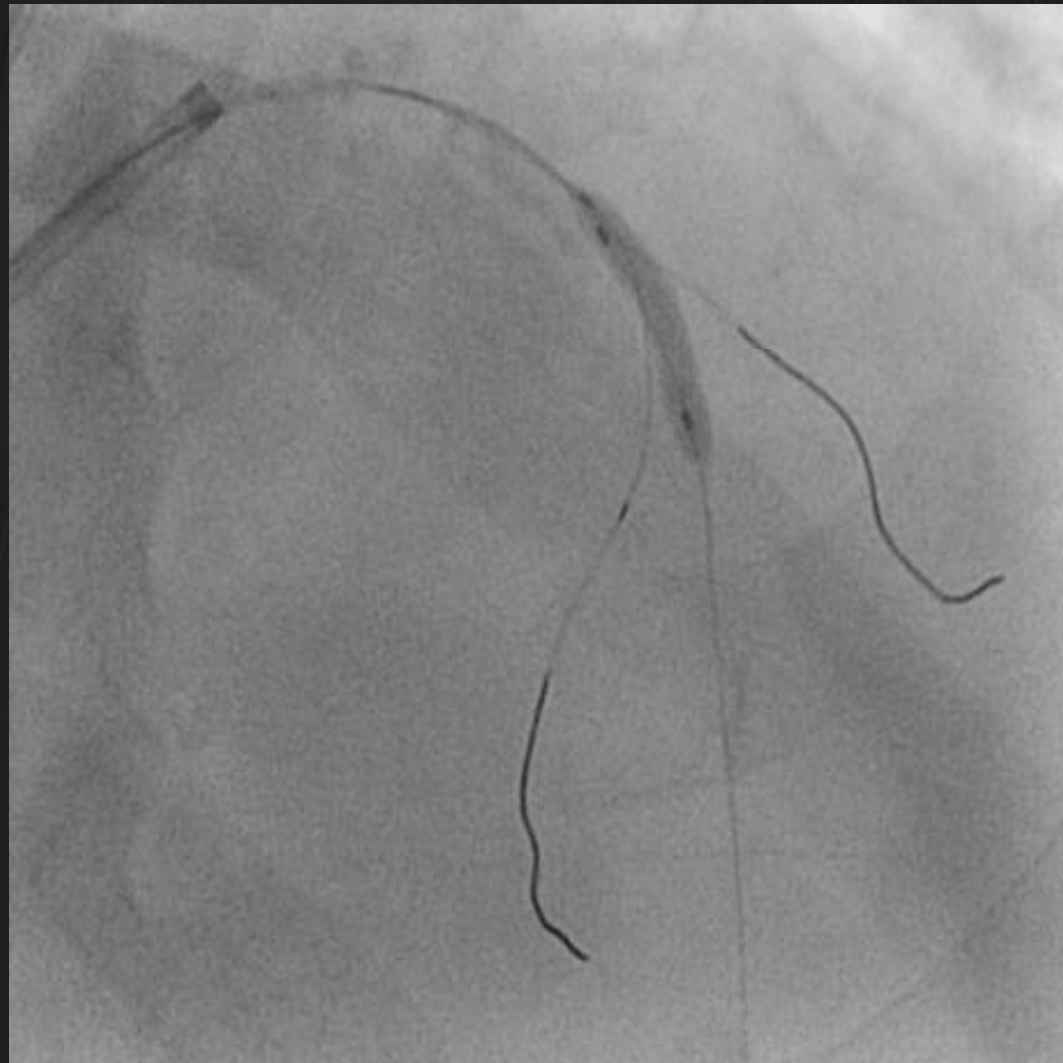
International meeting



Baseline

27260/09CCC

Distal Left Main and Multivessel Disease

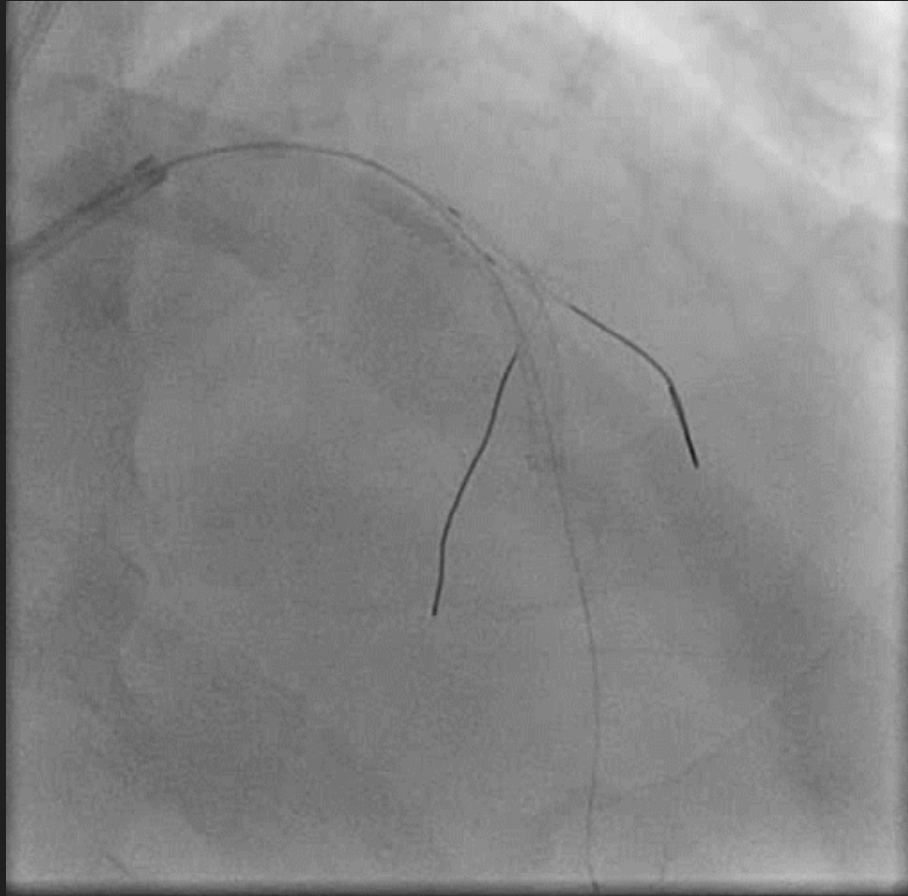


Quantum 3.5 x 15 mm 20Atm

27260/09CCC



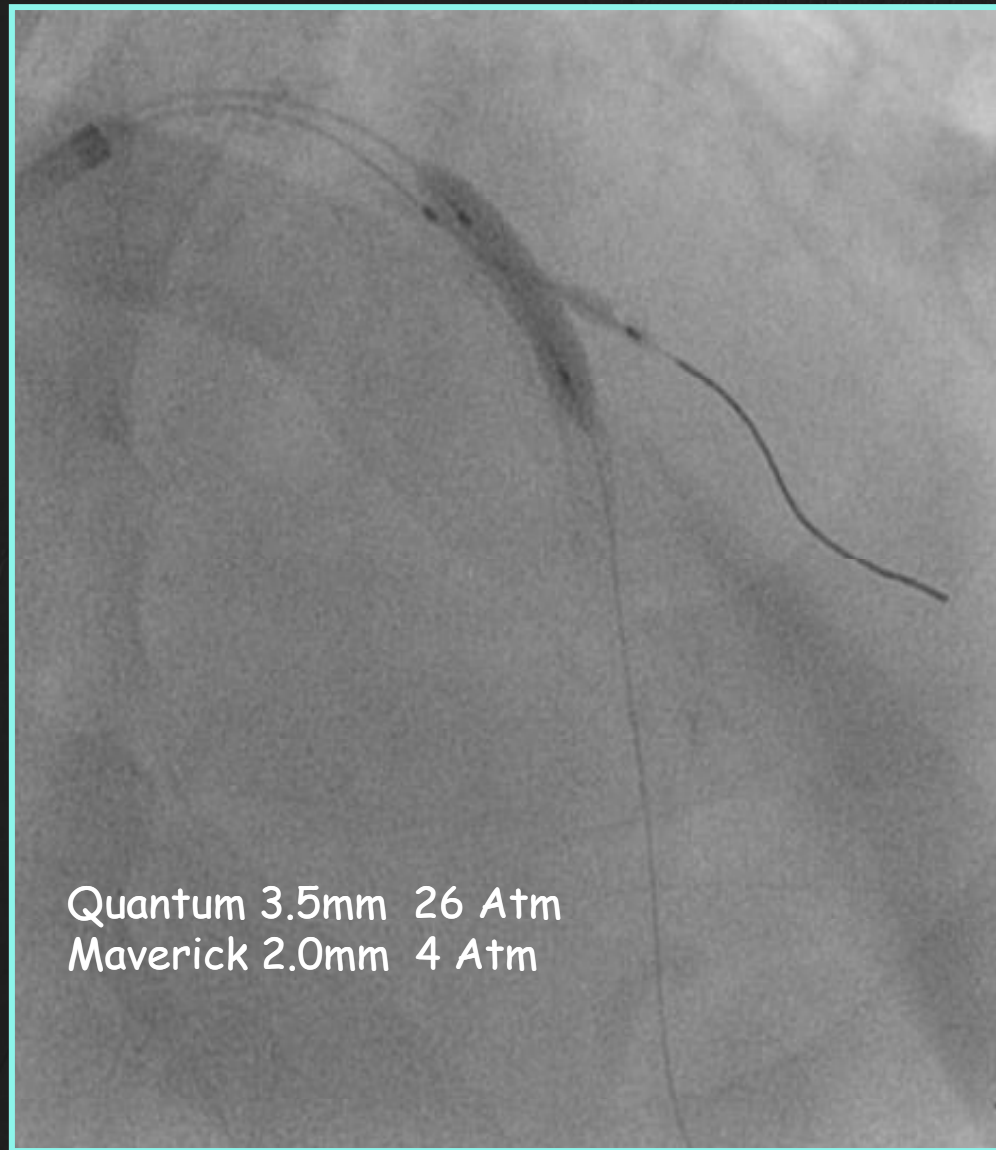
Deterioration of proximal Diagonal



After Stenting Taxus 2.25x8mm Ostium Diagonal
and after 3.5x30mm DES stenting of LAD

27260/09CCC

Distal Left Main and Multivessel Disease

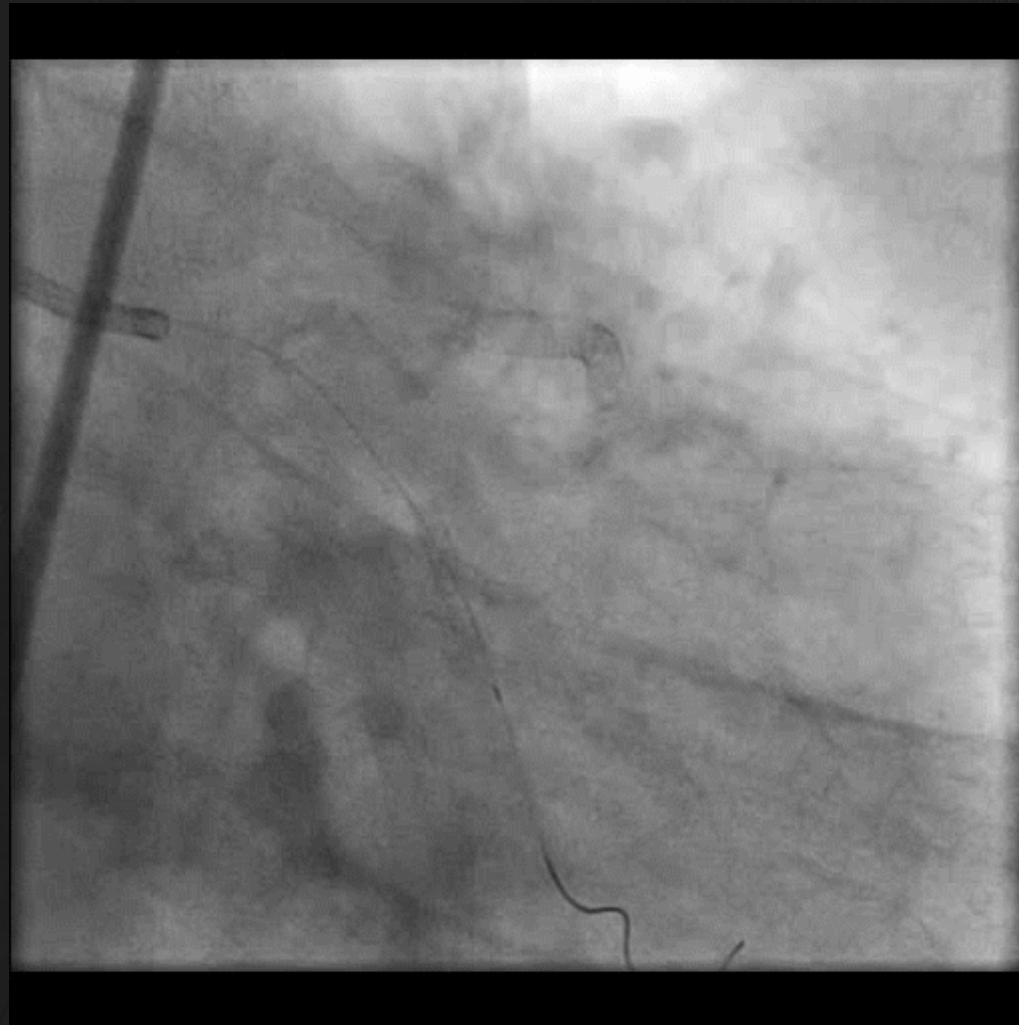


Quantum 3.5mm 26 Atm
Maverick 2.0mm 4 Atm

Kissing Inflation

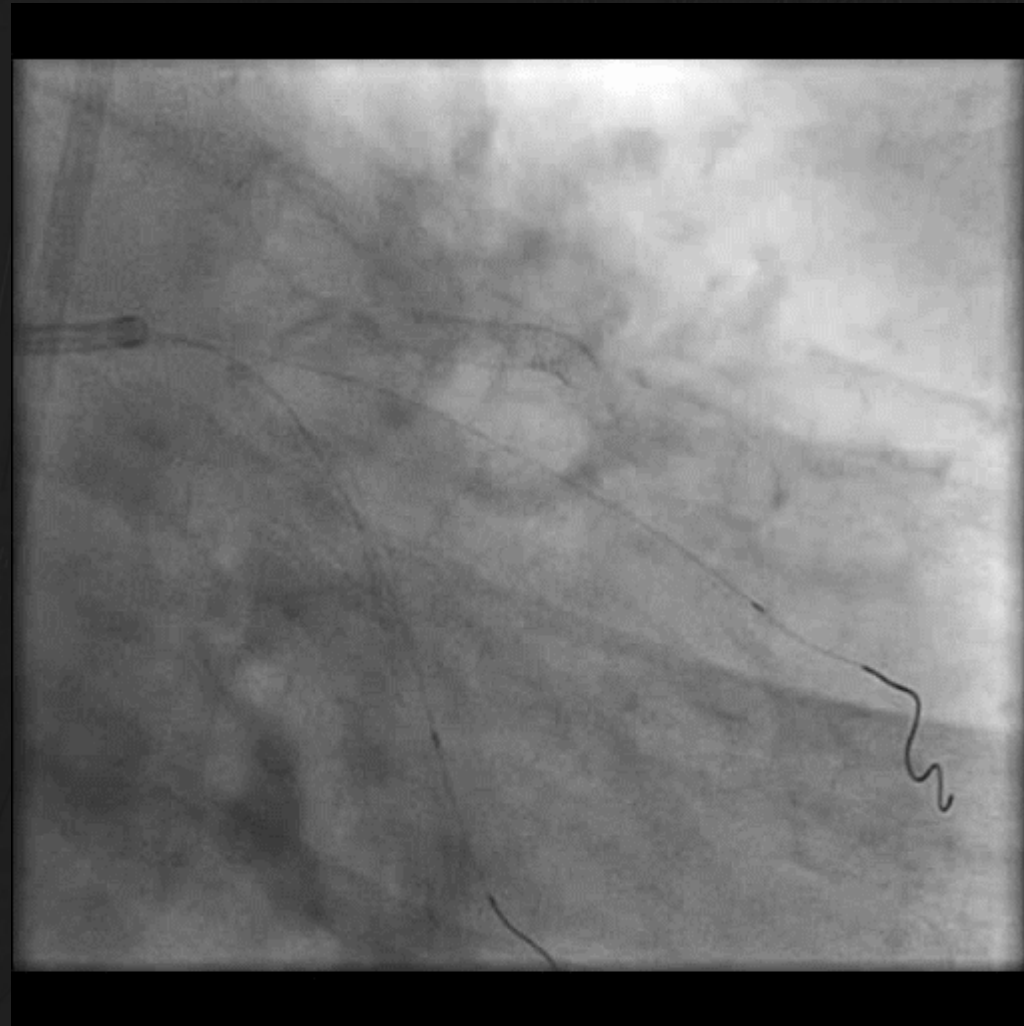
27260/09CCC

Distal Left Main and Multivessel Disease



After stenting the OM

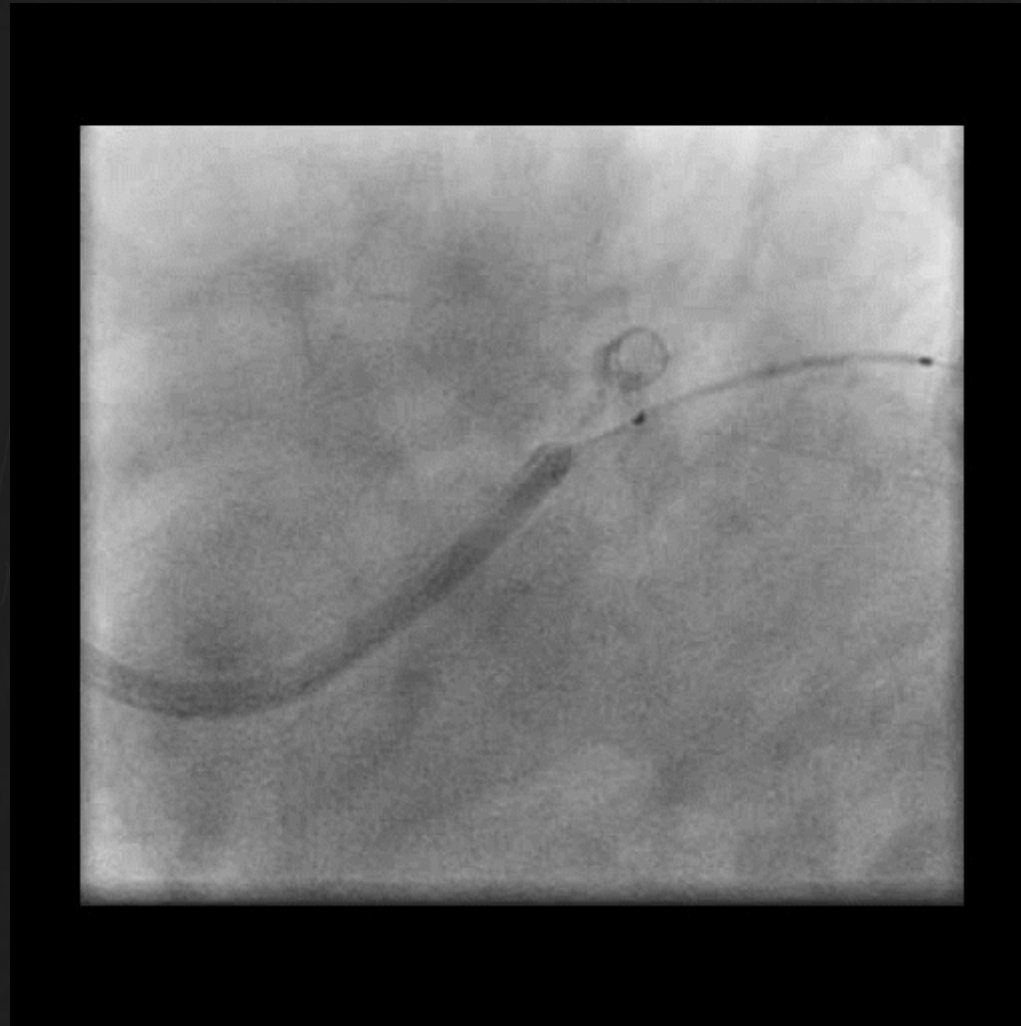
27260/09CCC



Treatment Intermediate Branch

27260/09CCC

Distal Left Main and Multivessel Disease



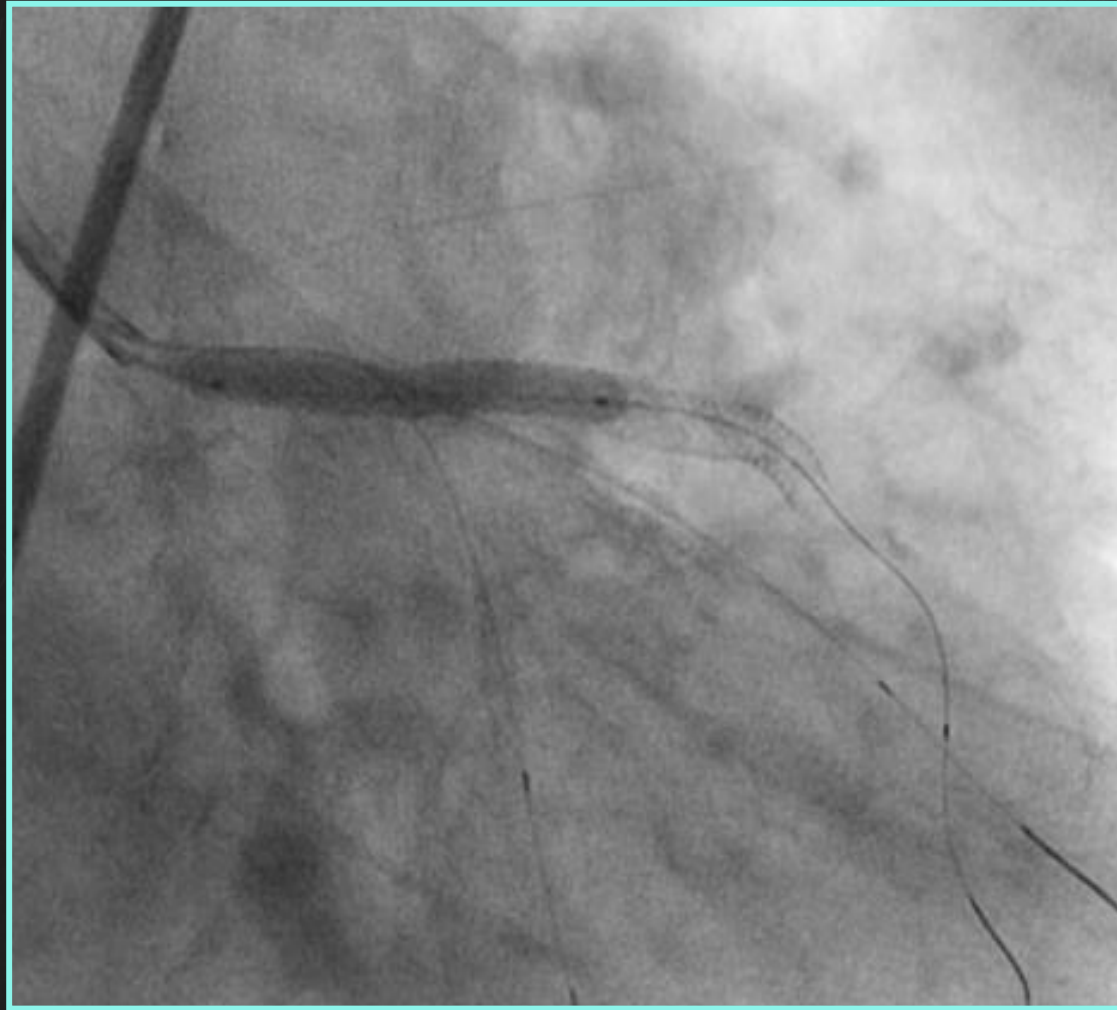
Implantation 2.25x30mm DES
Following Pre-dilatation with Maverick 2.0mm



Post-dilatation Intermediate Branch with
2.5mm Quantum 20 Atm

27260/09CCC

Distal Left Main and Multivessel Disease



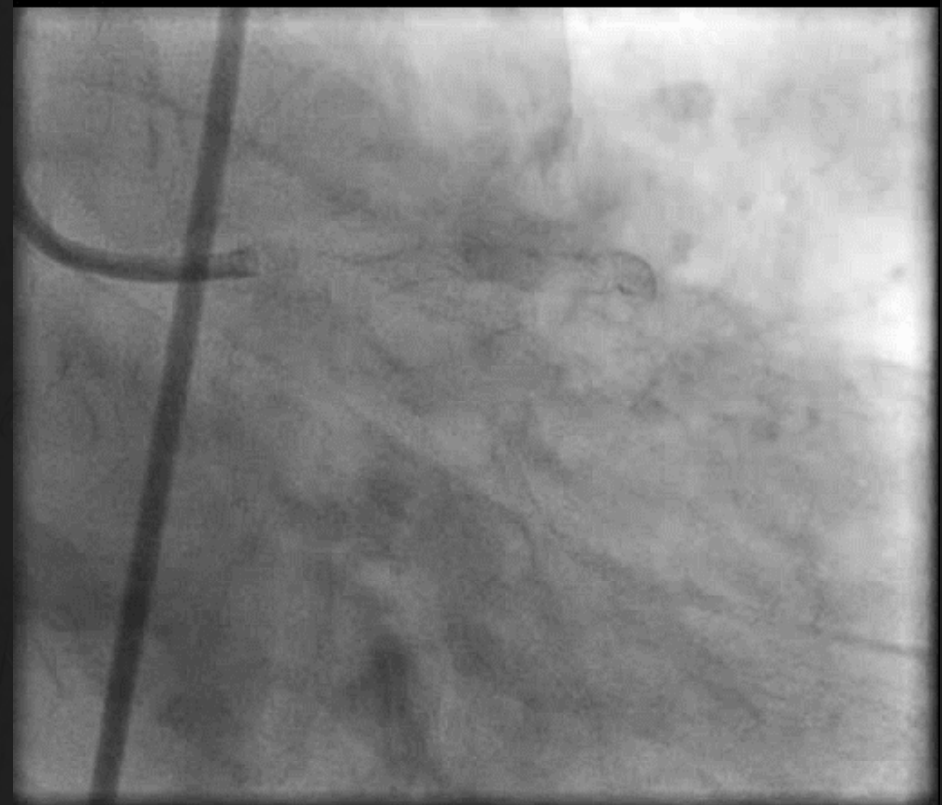
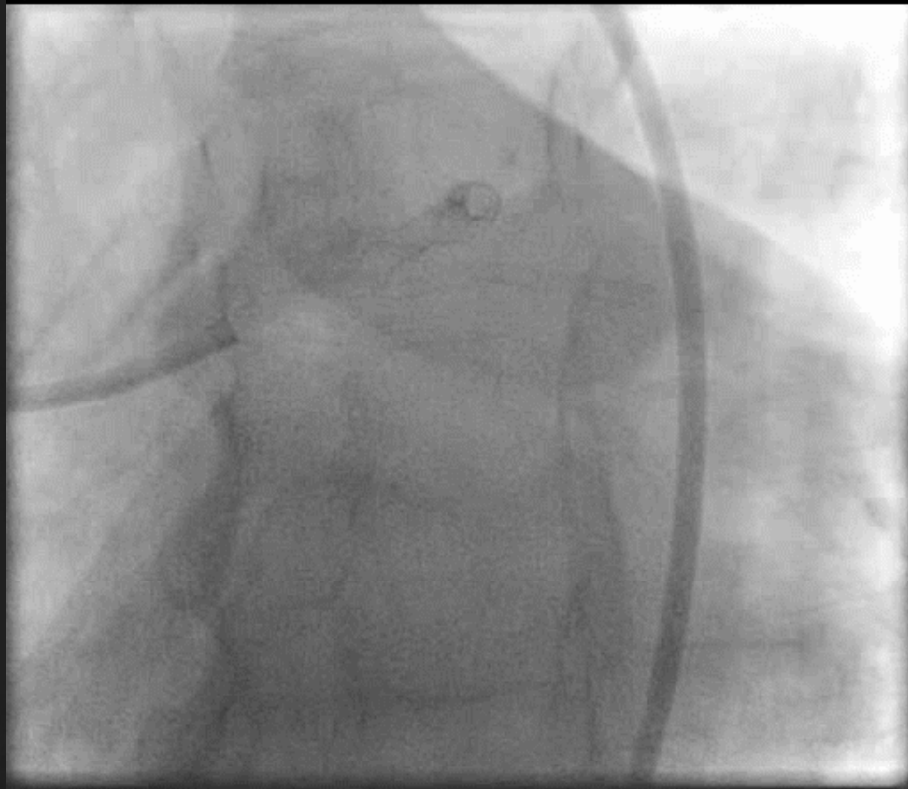
3.5x28mm DES stenting LM → LAD

Distal Left Main and Multivessel Disease



Post Stenting

27260/09CCC



After Triple Balloon Kissing Inflation

27260/09CCC

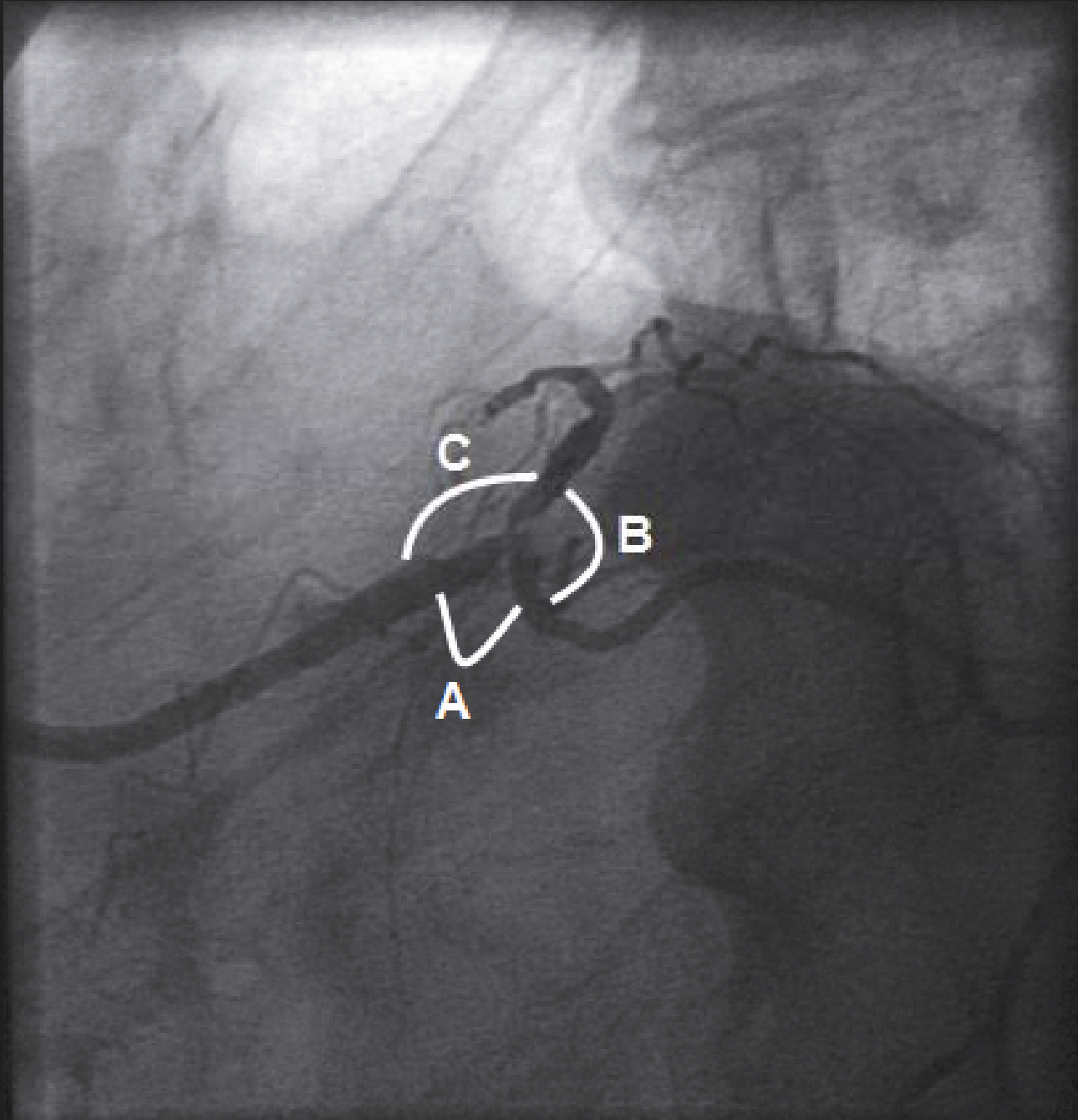
Unfavorable angle

Joint interventional meeting

*February 10-12, 2011
Rome, Italy*

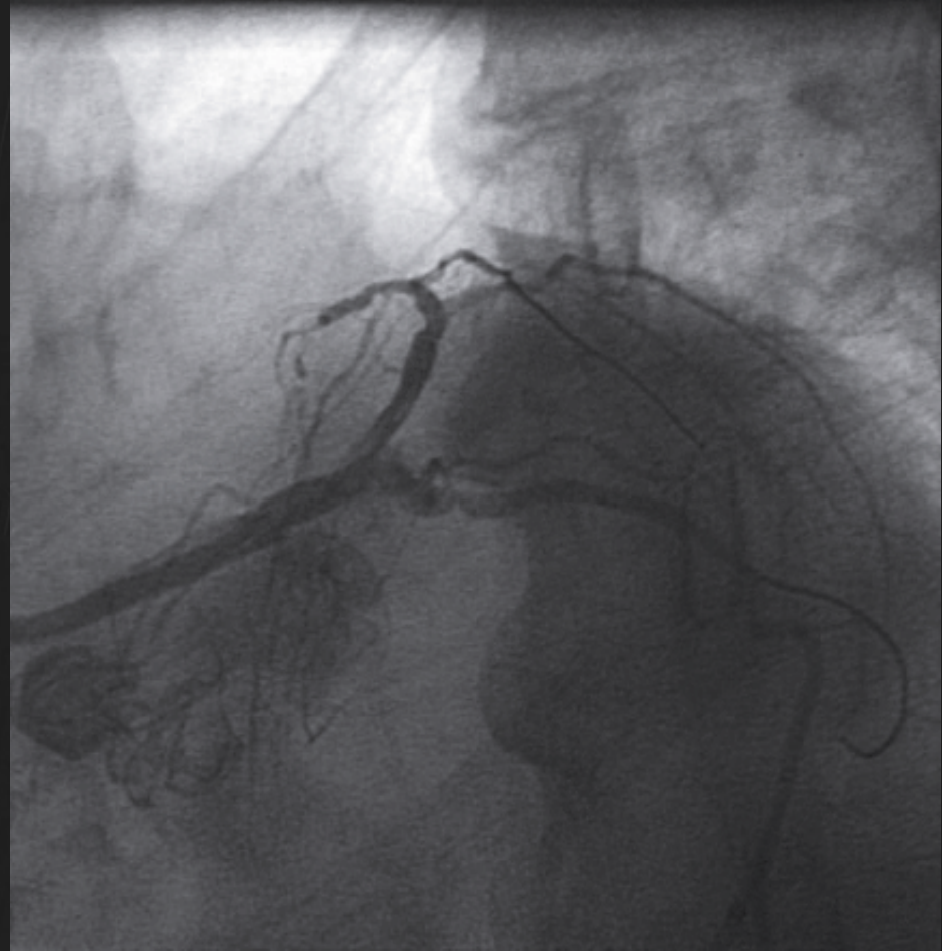
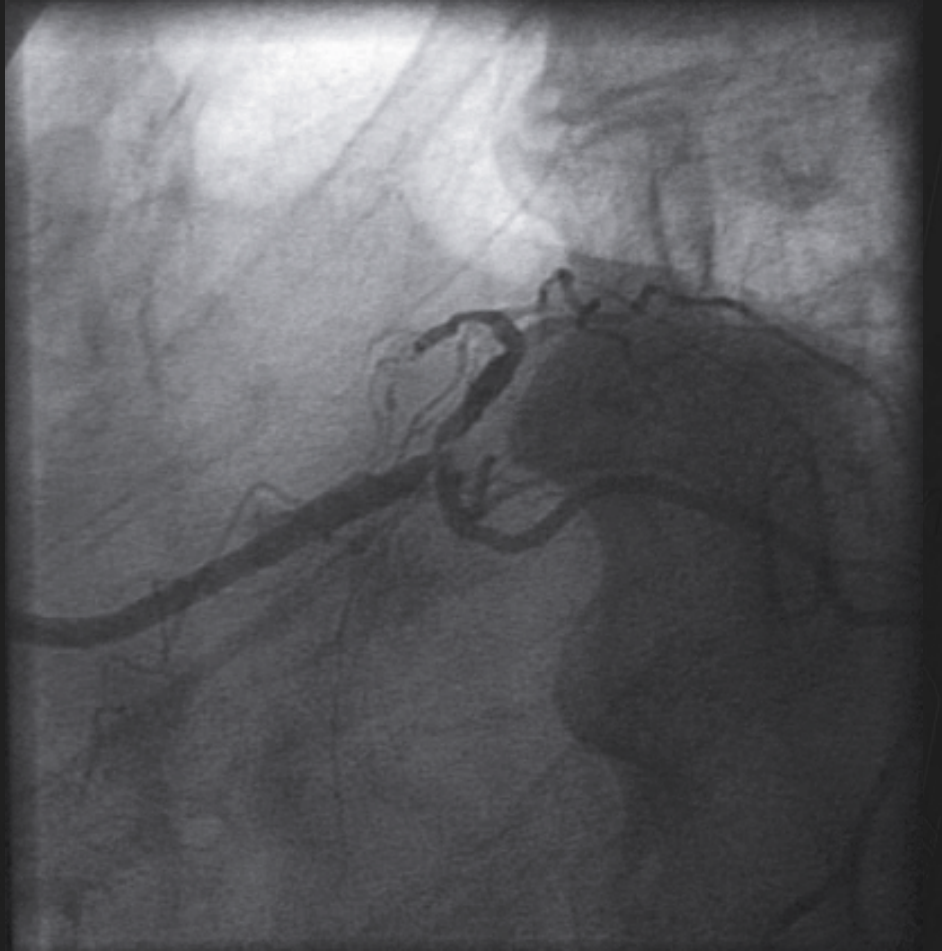
International meeting

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12/2011

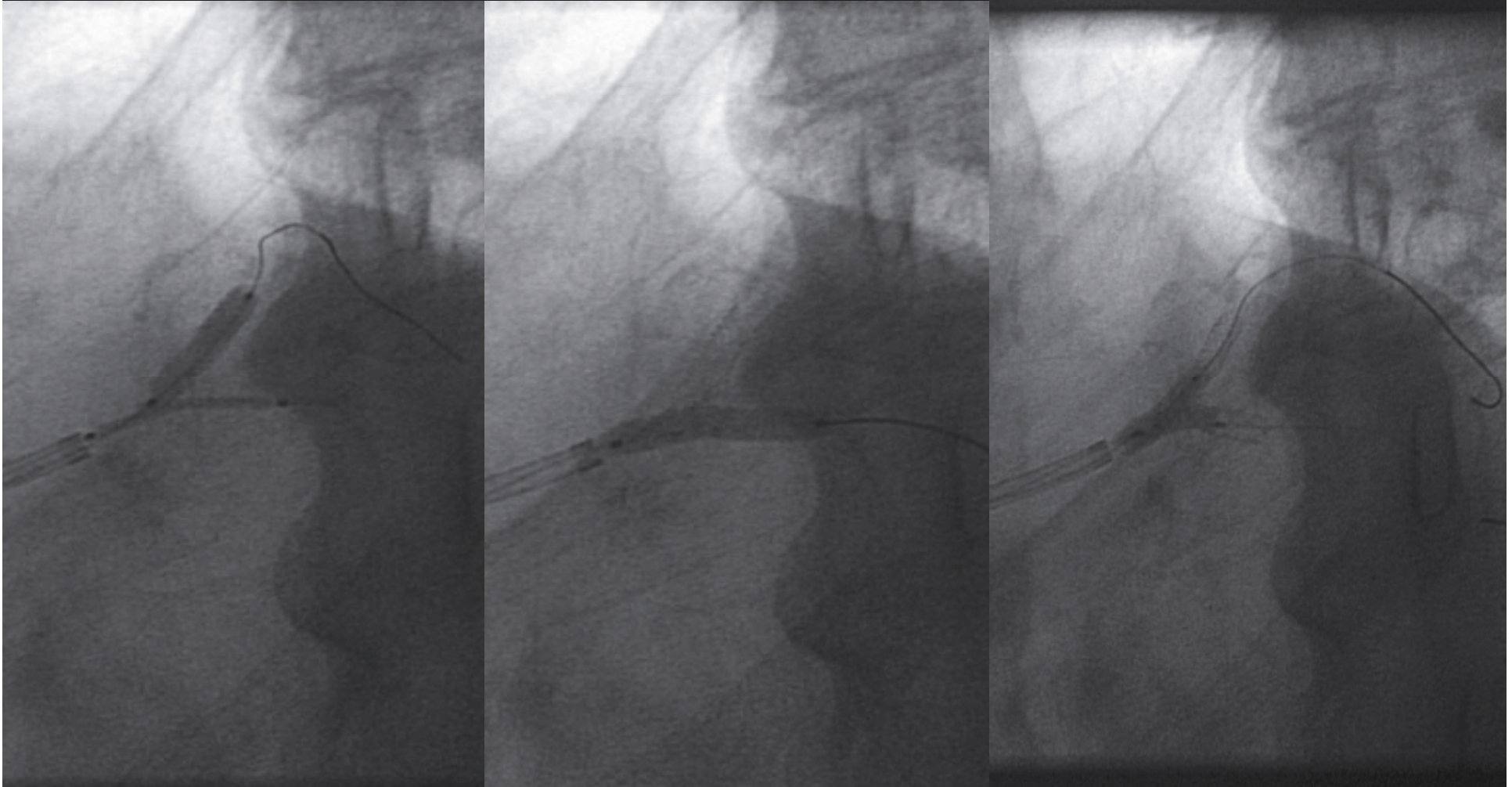
Unfavourable angle



February 10-12, 2011
Rome, Italy

International meeting

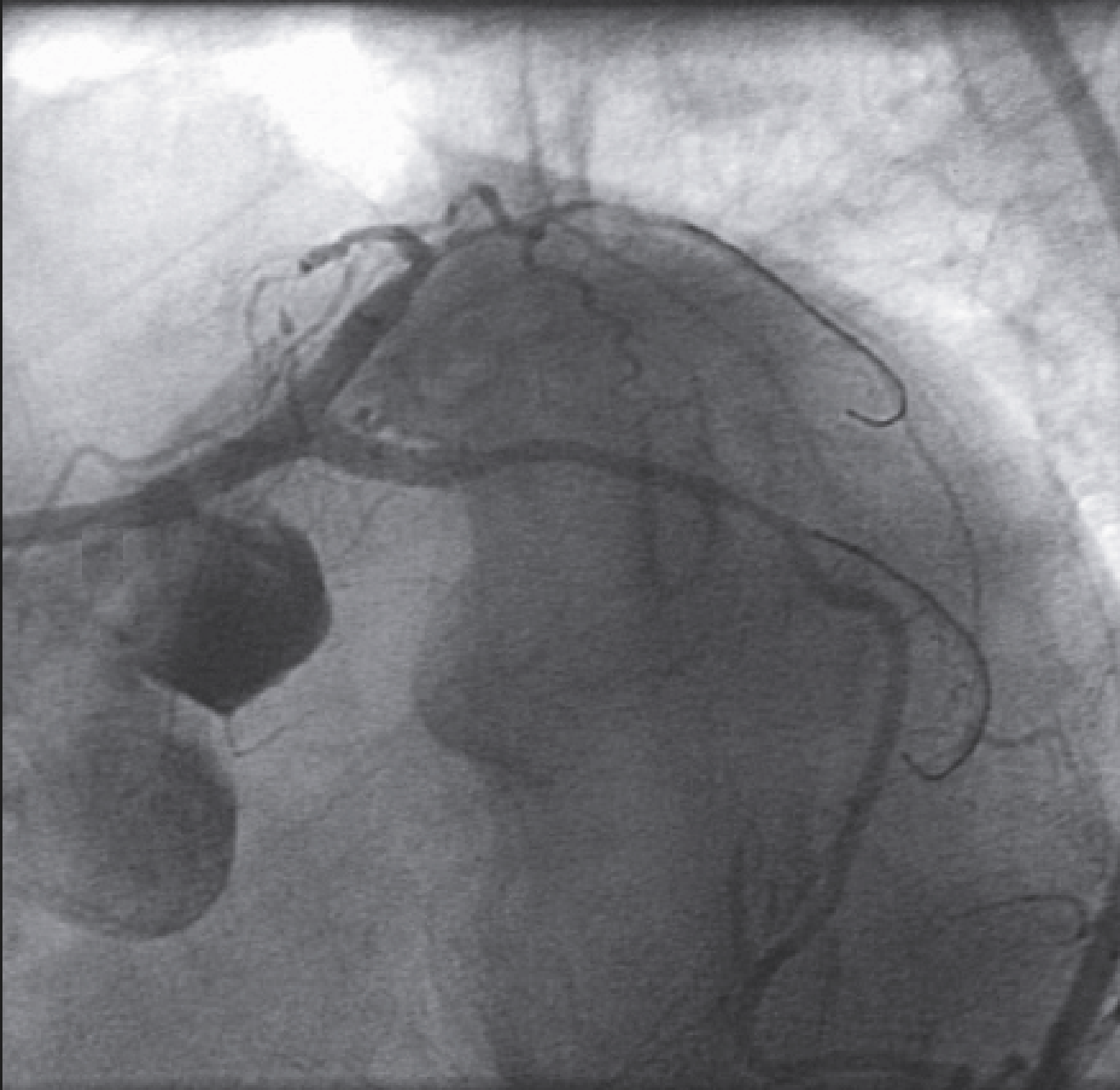
Unfavourable angle: mini crush



Rome, Italy

International meeting

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Final Kissing Balloon inflation

In real life Final Kissing Balloon inflation is performed 30%-50% of the times with provisional stenting and we do not know what would have happened if the operators did not performed Final Kissing Balloon at all.

The bottom line could be that Final Kissing Balloon inflation is not mandatory, but there are situations where it is important

European Bifurcation Club Consensus

- **Complex technique:** *Kissing balloon inflation for carina reconstruction is mandatory in two stent techniques;*
- **Simple technique:** *Kissing balloon inflations, or pressure wire interrogation, should be used in provisional stenting when an angiographically significant (>75%) side branch lesion remains after main branch stenting;*

NORD-BIF III “Nordic kiss”

FKB inflation reduced restenosis
in the SB: overall from 15% to
8% and in true bifurcations from
20% to 7%

