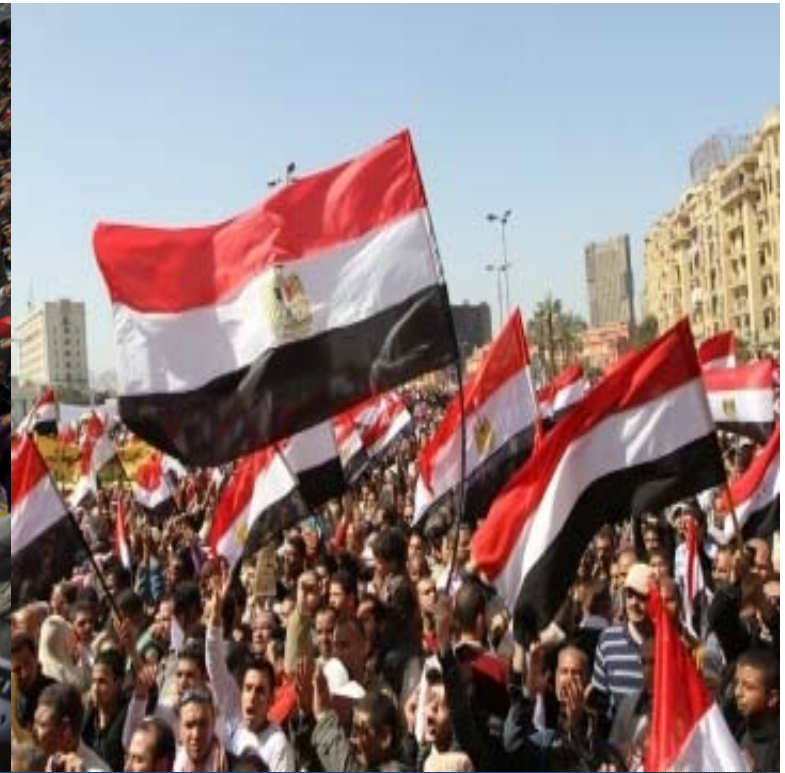


OH my God! it was an
incredible story!

Mohamed Sobhy, MD, FACC, FESC

Professor of Cardiology, Alexandria University
President of Egyptian Society of Technology



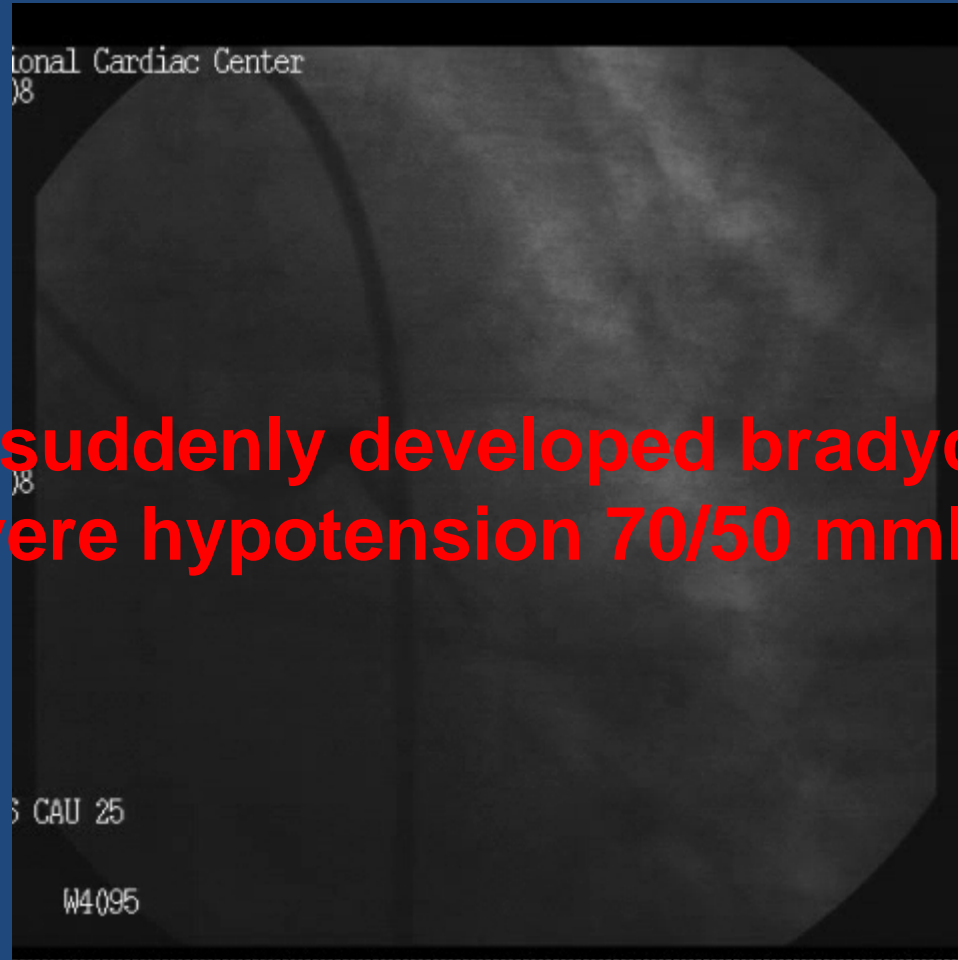
Egypt Revolution: 25/1/2011



Patient's Medical Information

- Female, 54 years, clerk, 4 children
- DM, mild HTN
- Angina Pectoris, rest and exercise
- Resting ECG → T wave inversion in AL
- TTE → Normal wall motion, EF: 56%
- Failure of medical treatment
- Elective Coronary Angiogram

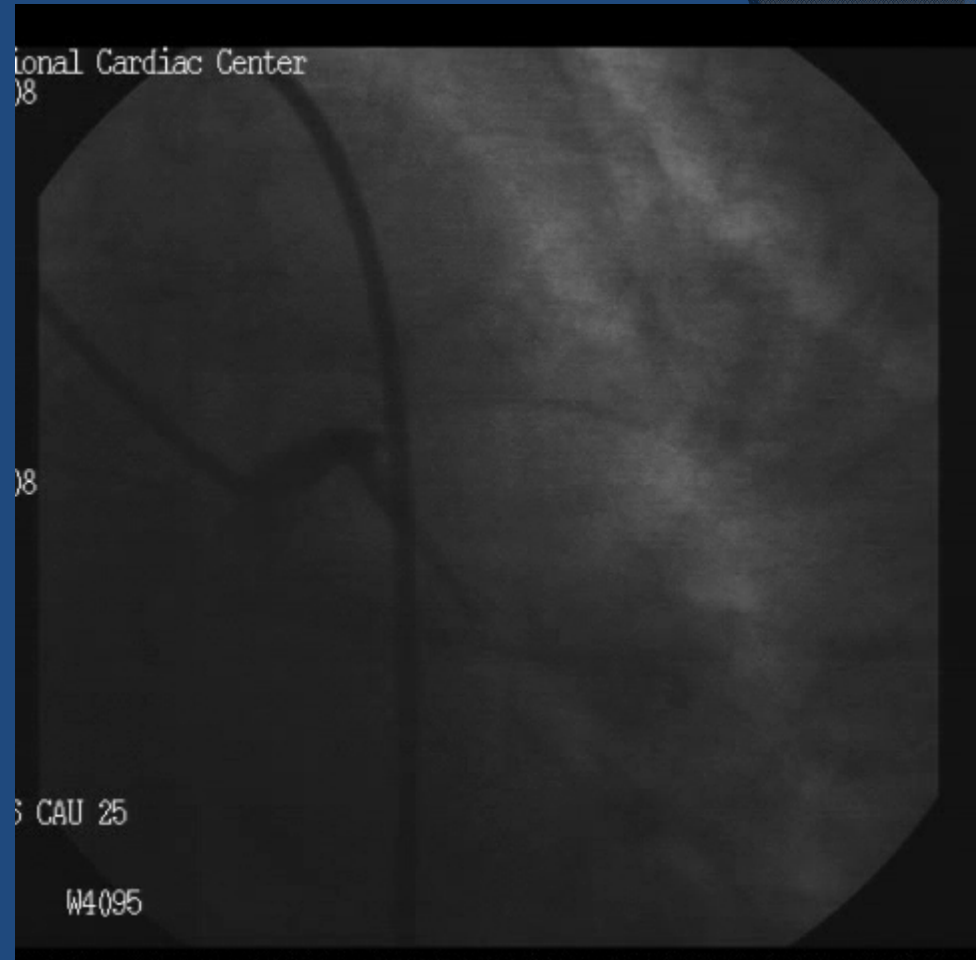
First Injection, Oh my God



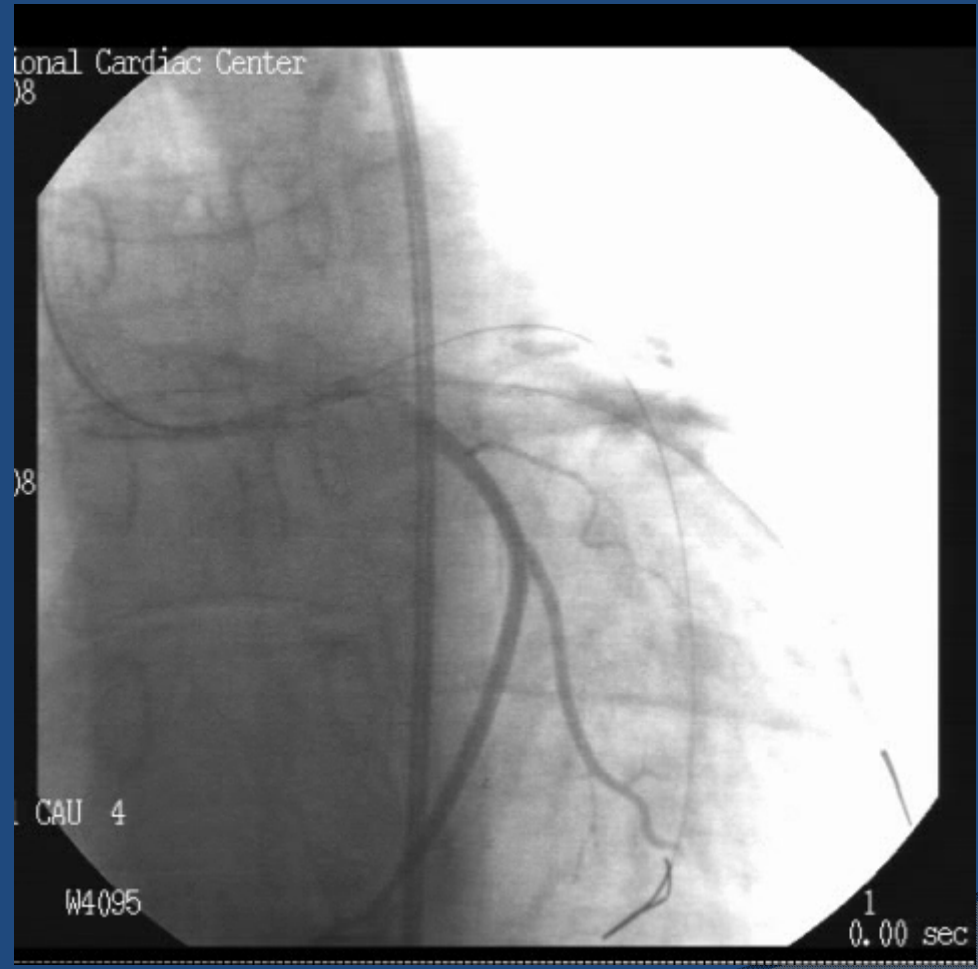
**Patient suddenly developed bradycardia
and severe hypotension 70/50 mmHg**

Possibilities

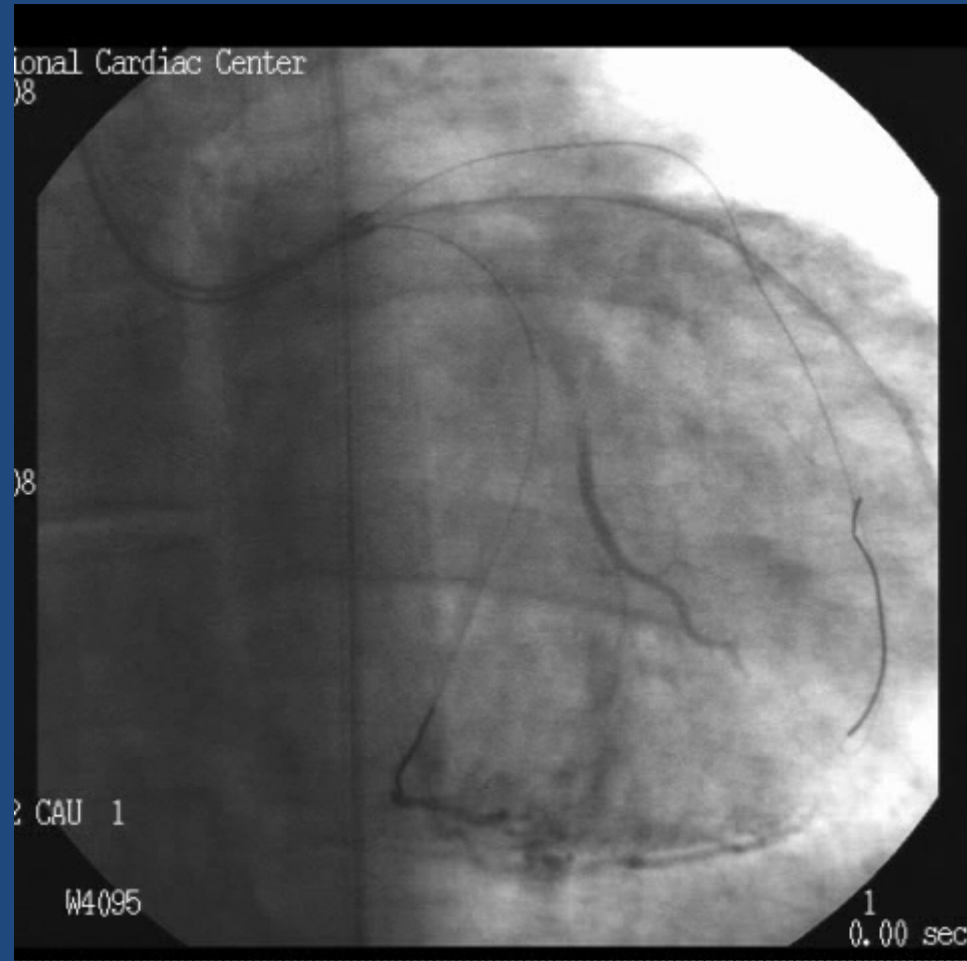
- ⦿ Air embolism
- ⦿ Dislodgement of thrombus
- ⦿ Left main dissection



Immediate 3 wires into LAD, Ramus and Cx



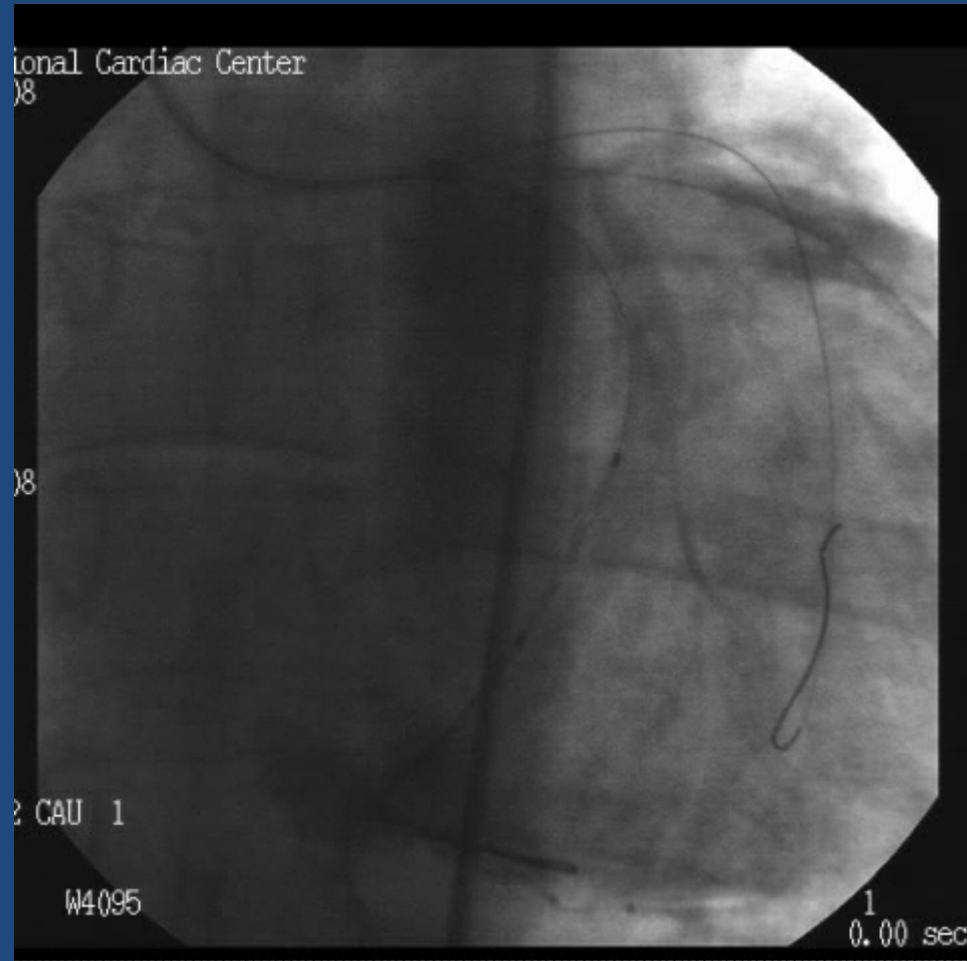
Patient is now arrested



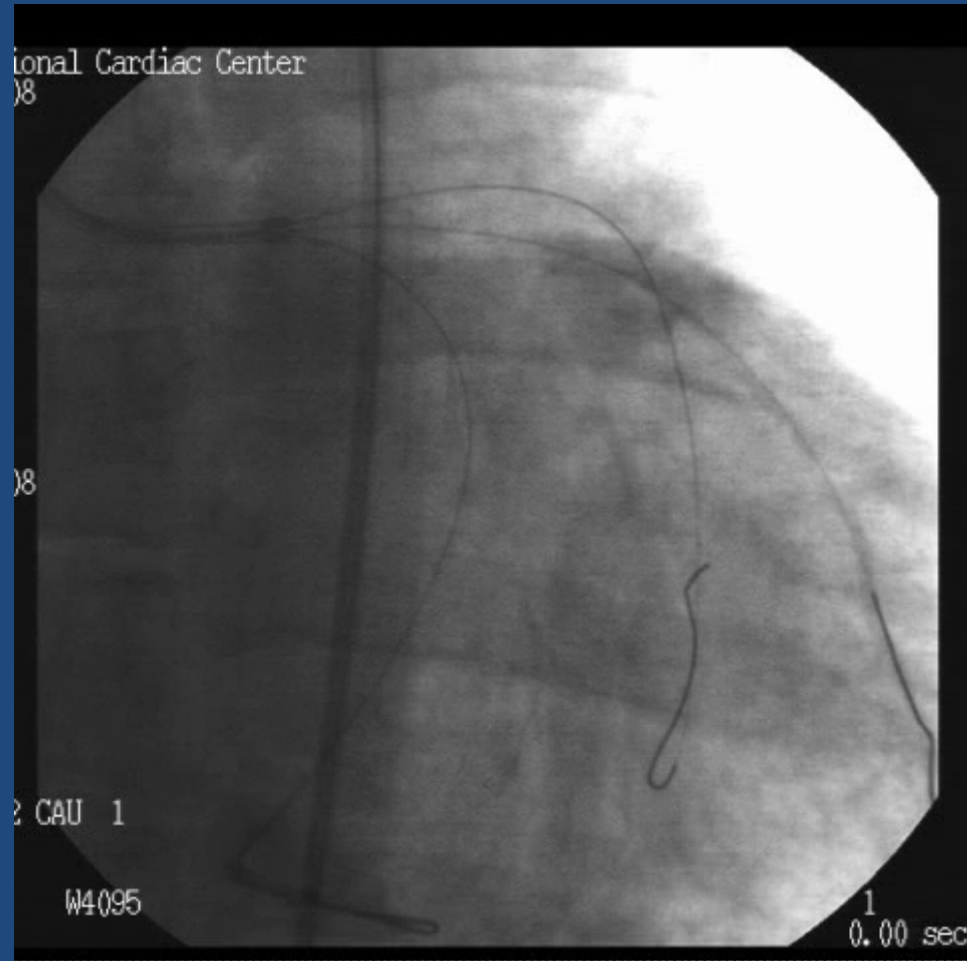
Cardiac massage and ventilation



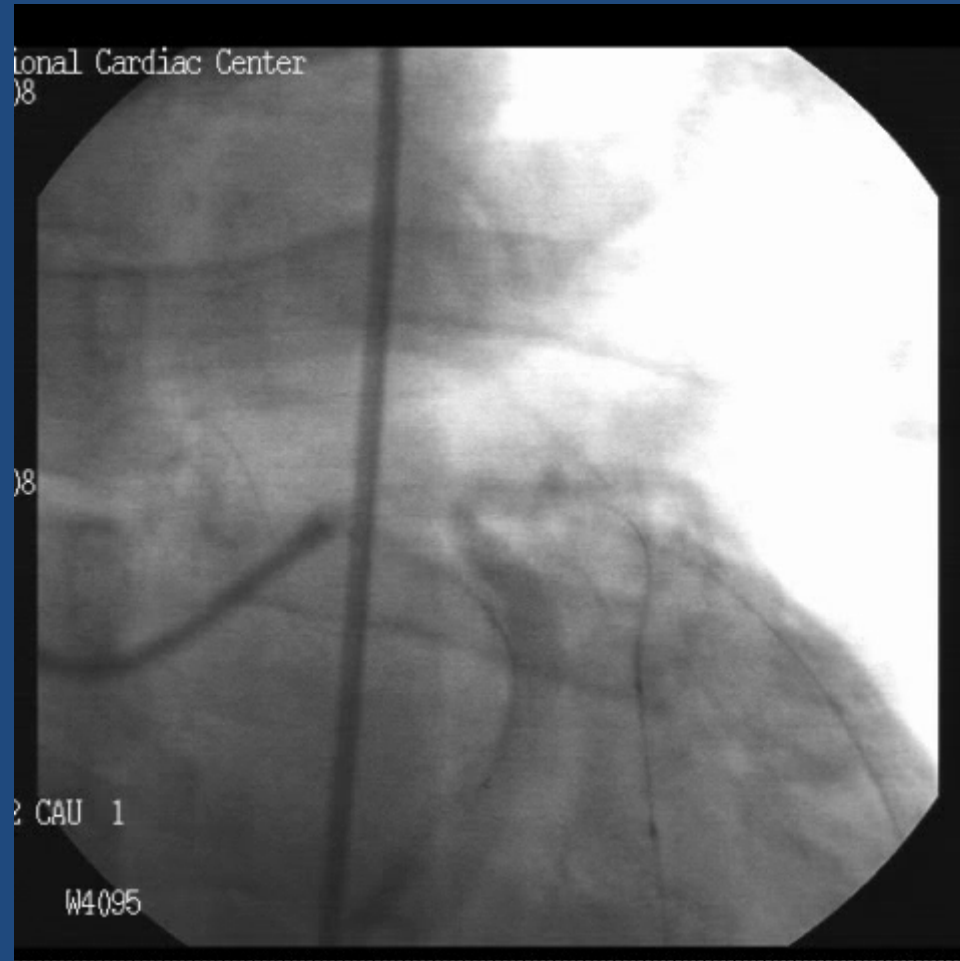
Balloon 2mm to Cx for Dilatation



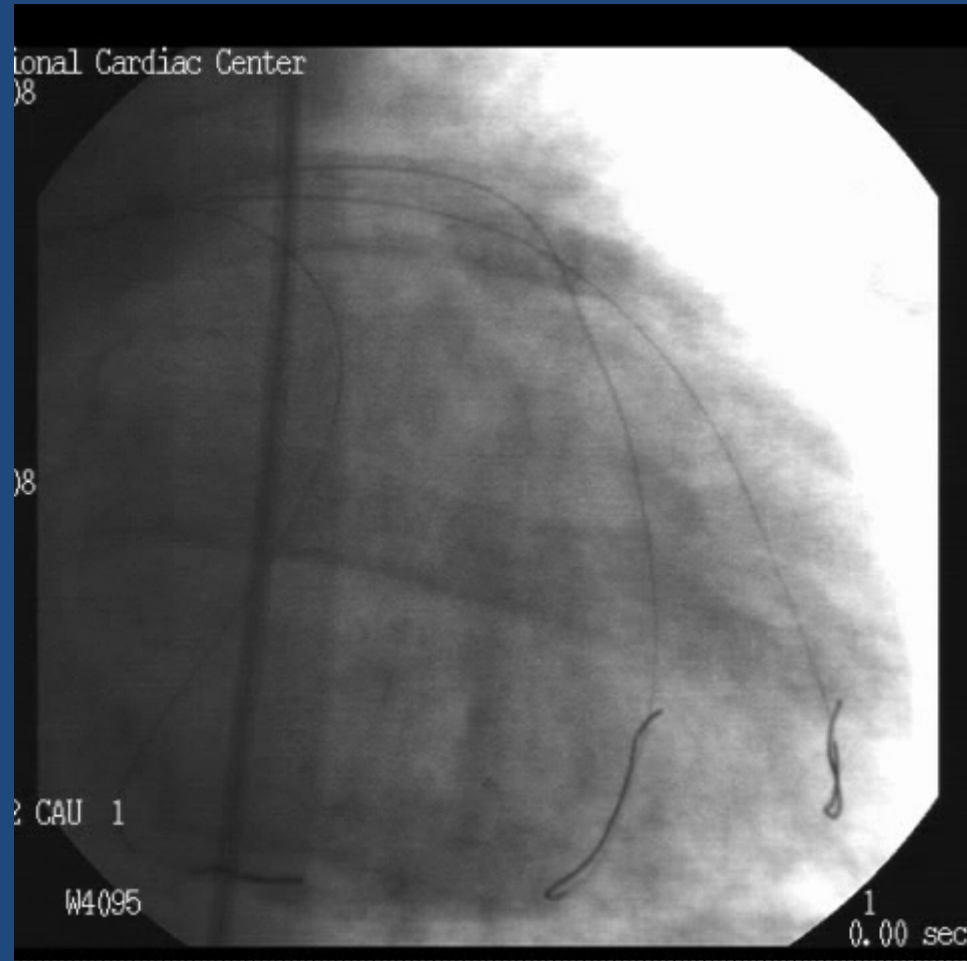
Oh my God ... Arrest again!?



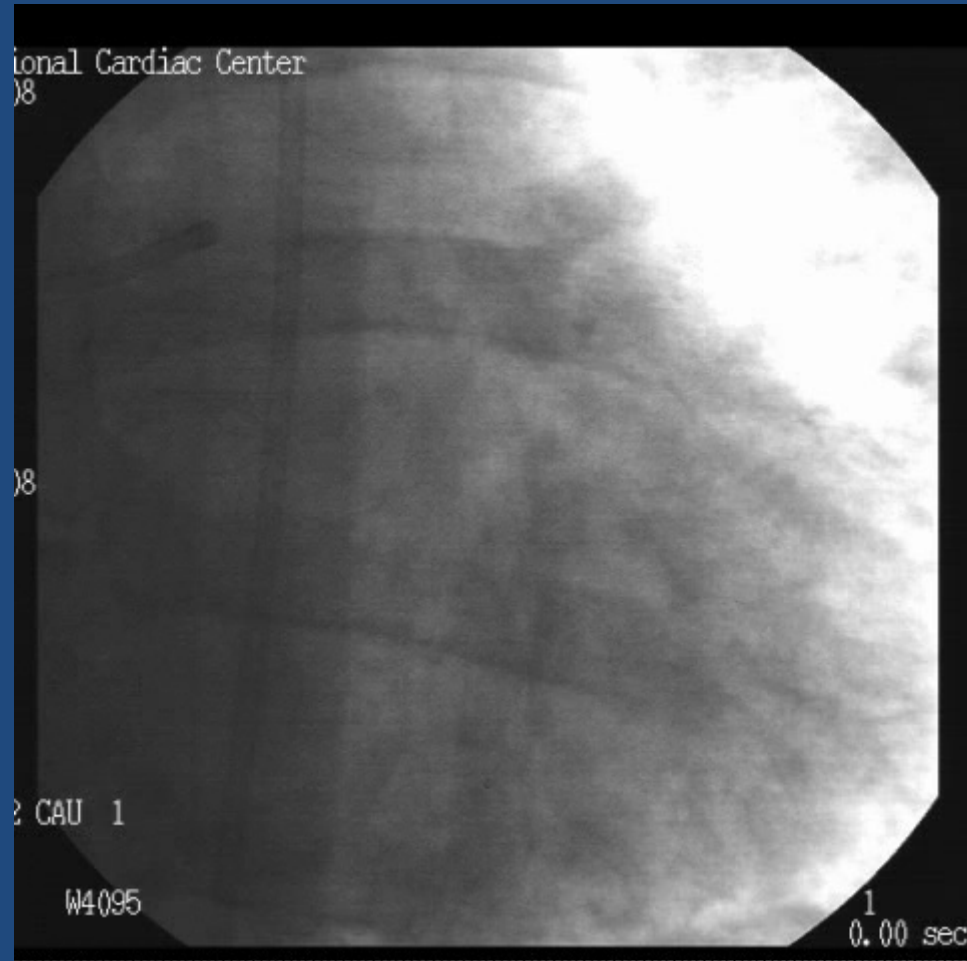
Balloon went to ramus during cardiac massage



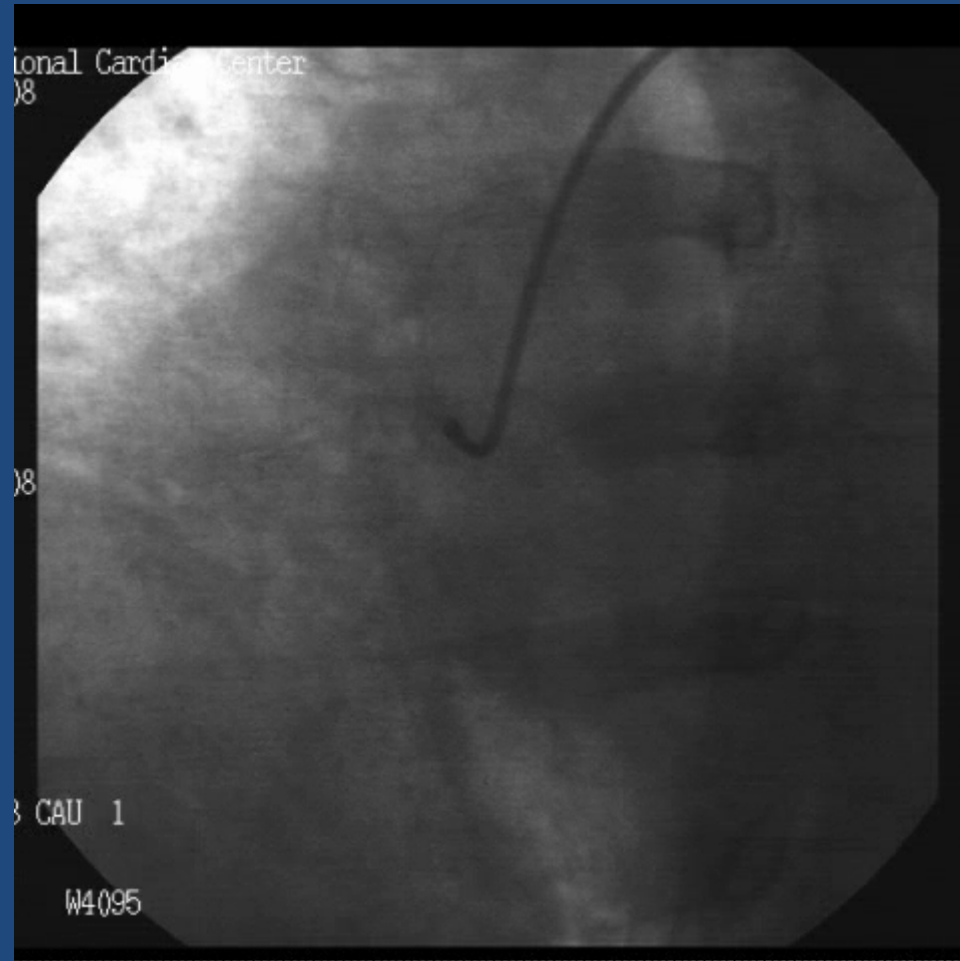
After massage and balloon dilatation of LAD and Ramus



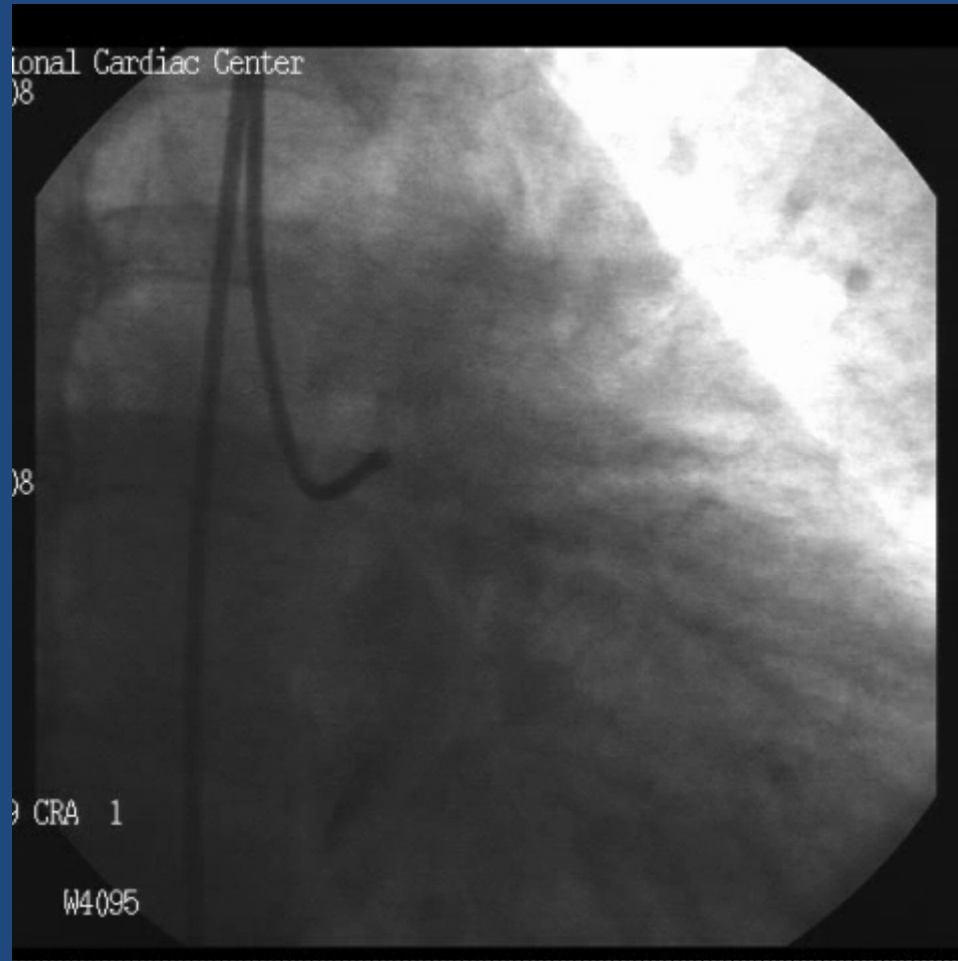
Wires removed,
BP 80/60 mmHg Heart rate 140 b/m



Checking RCA



Recheck the left system! What is this?



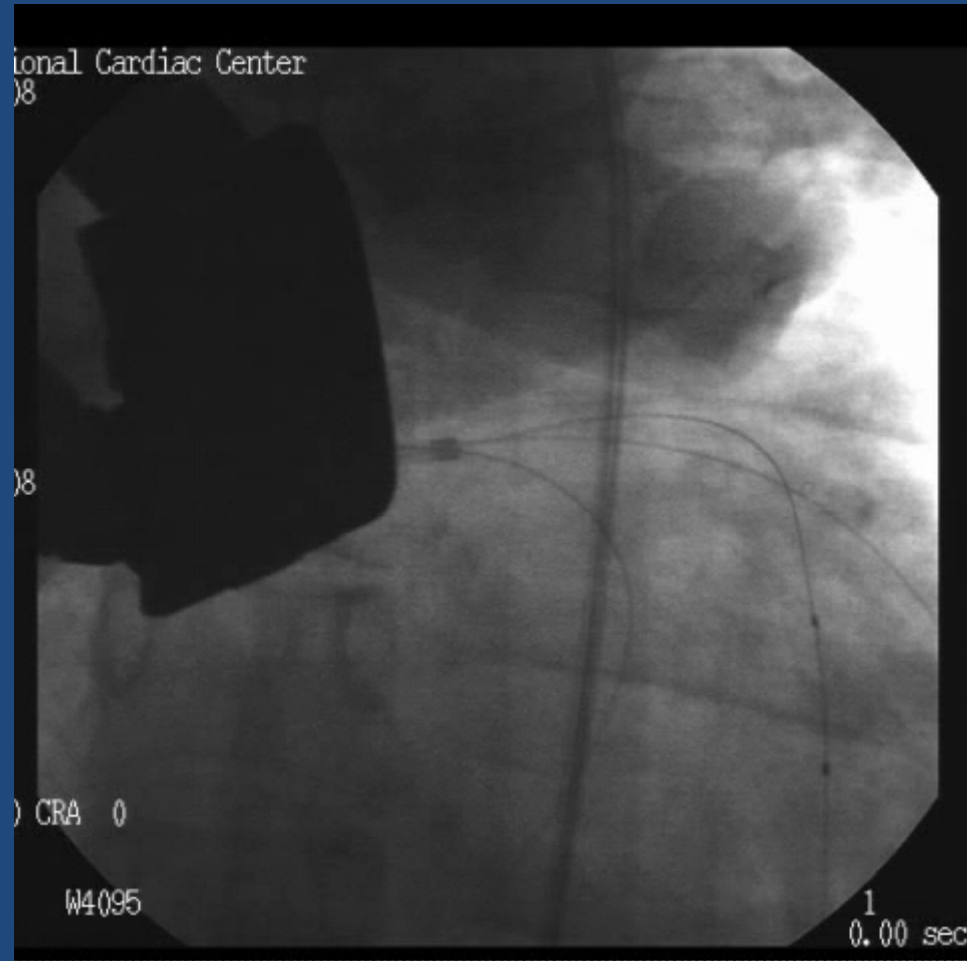
Patient is now arresting again.
Call for Wires rapidly with balloons.



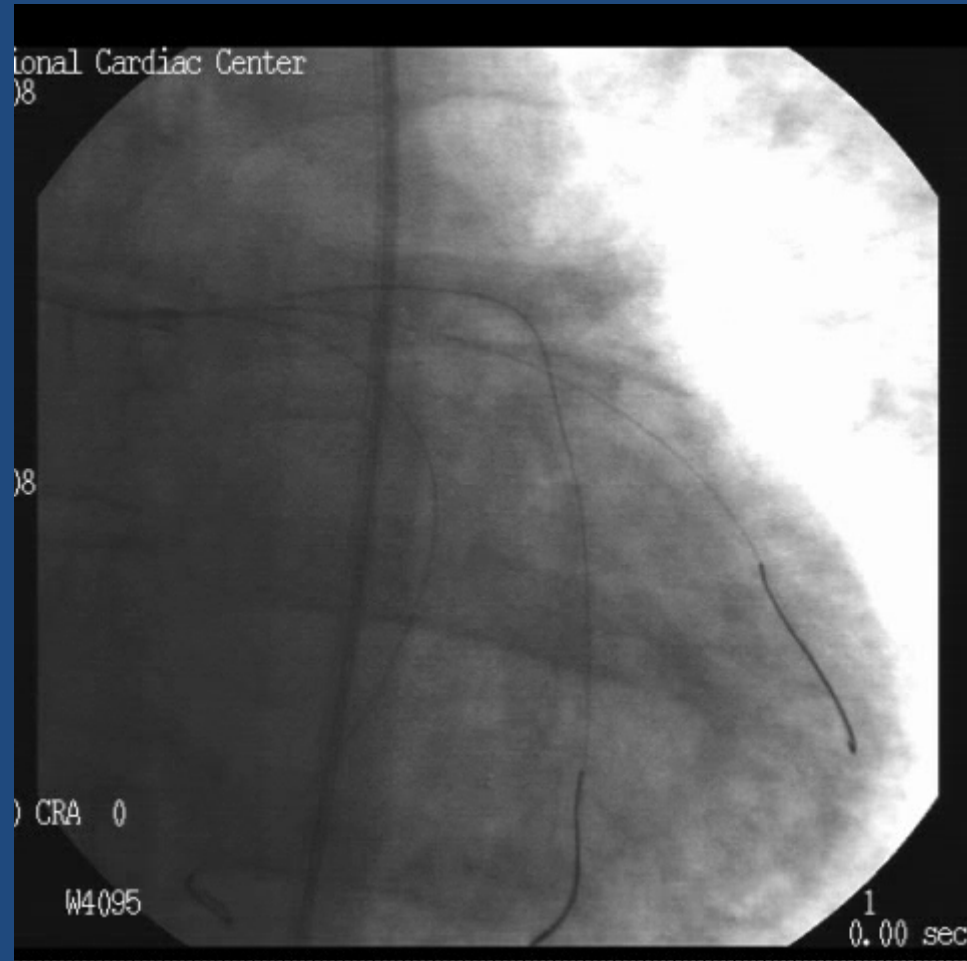
Balloon dilatation of LAD



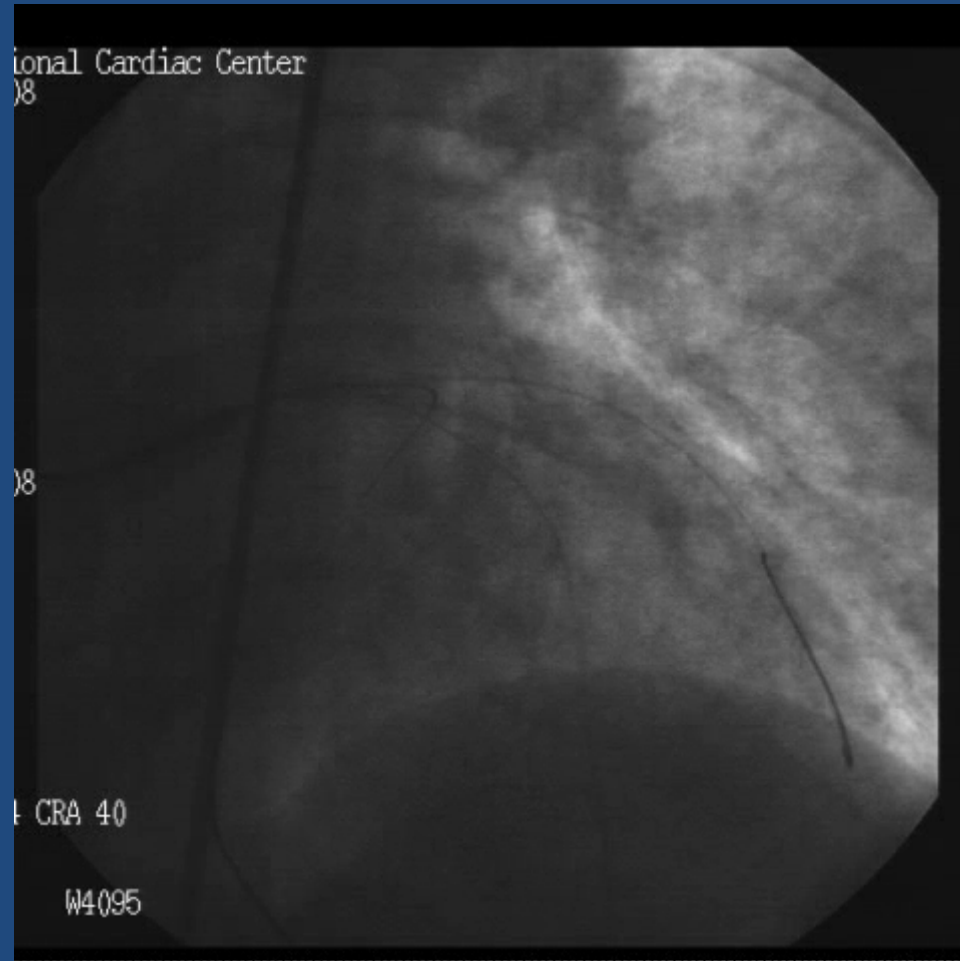
Third time arrest



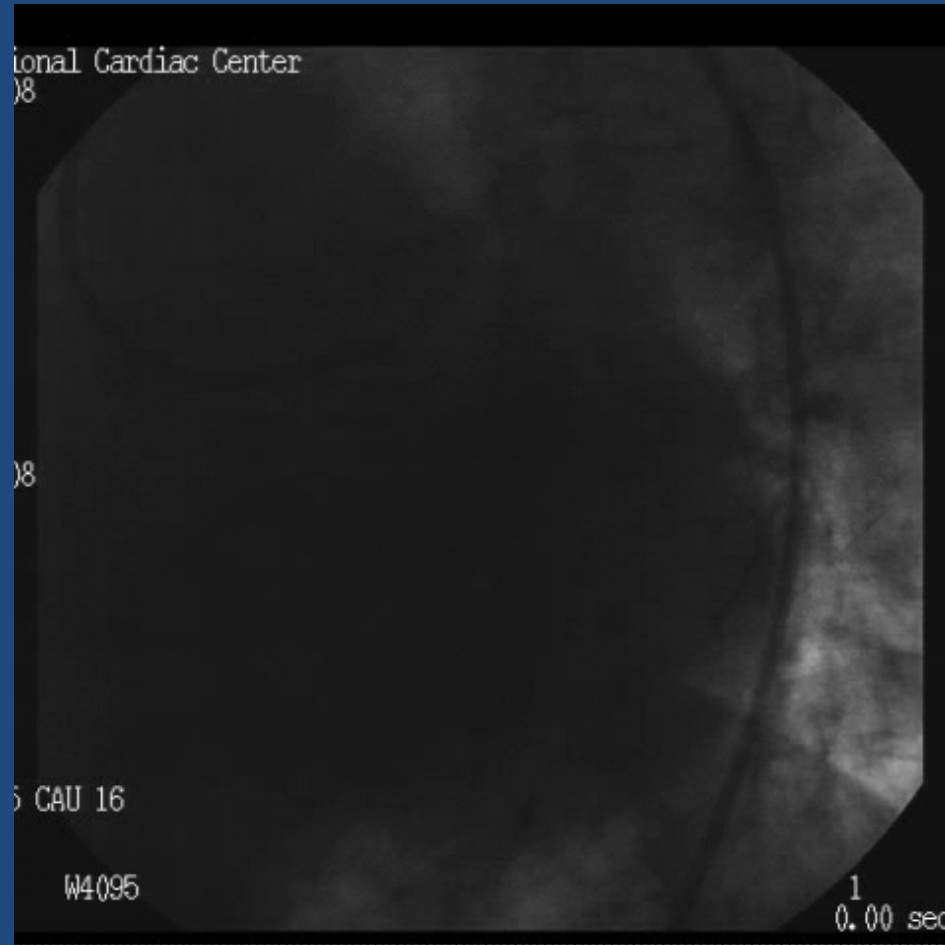
Relief for a while but what's Next?



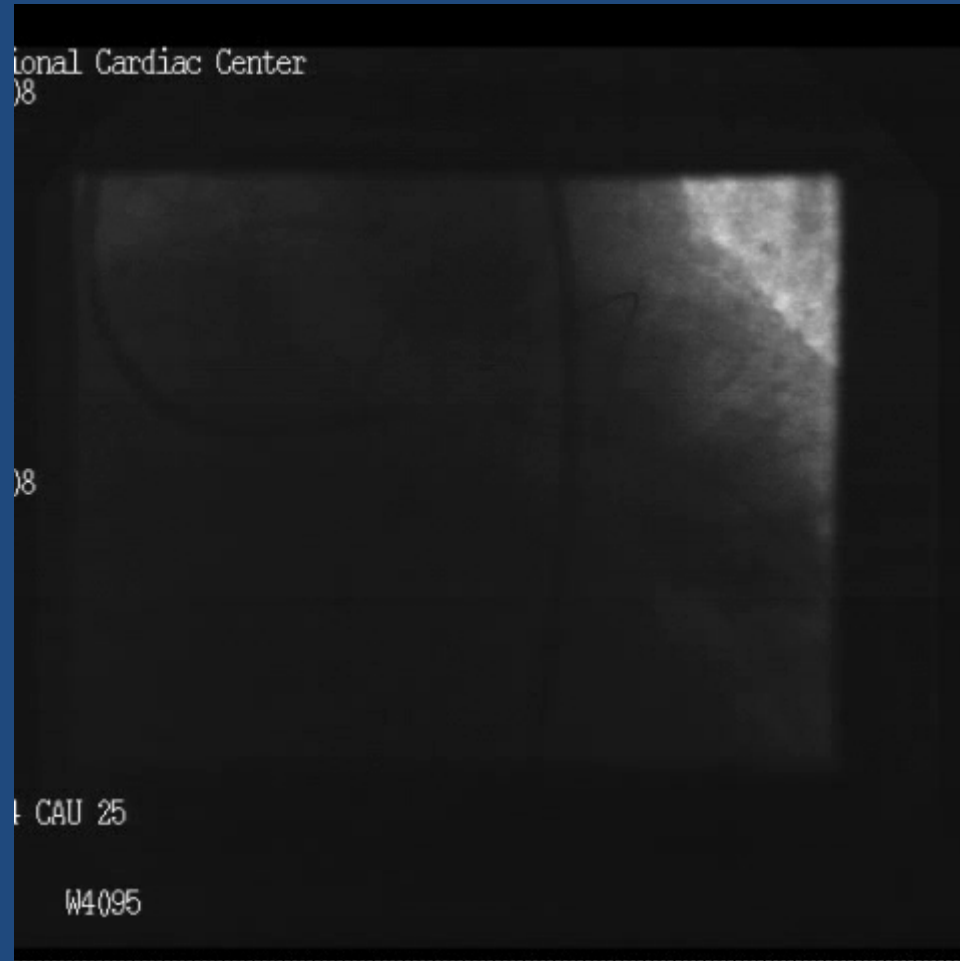
Check and wait



Check and wait, spider view



Query dissecting flap in proximal LAD, but not sure



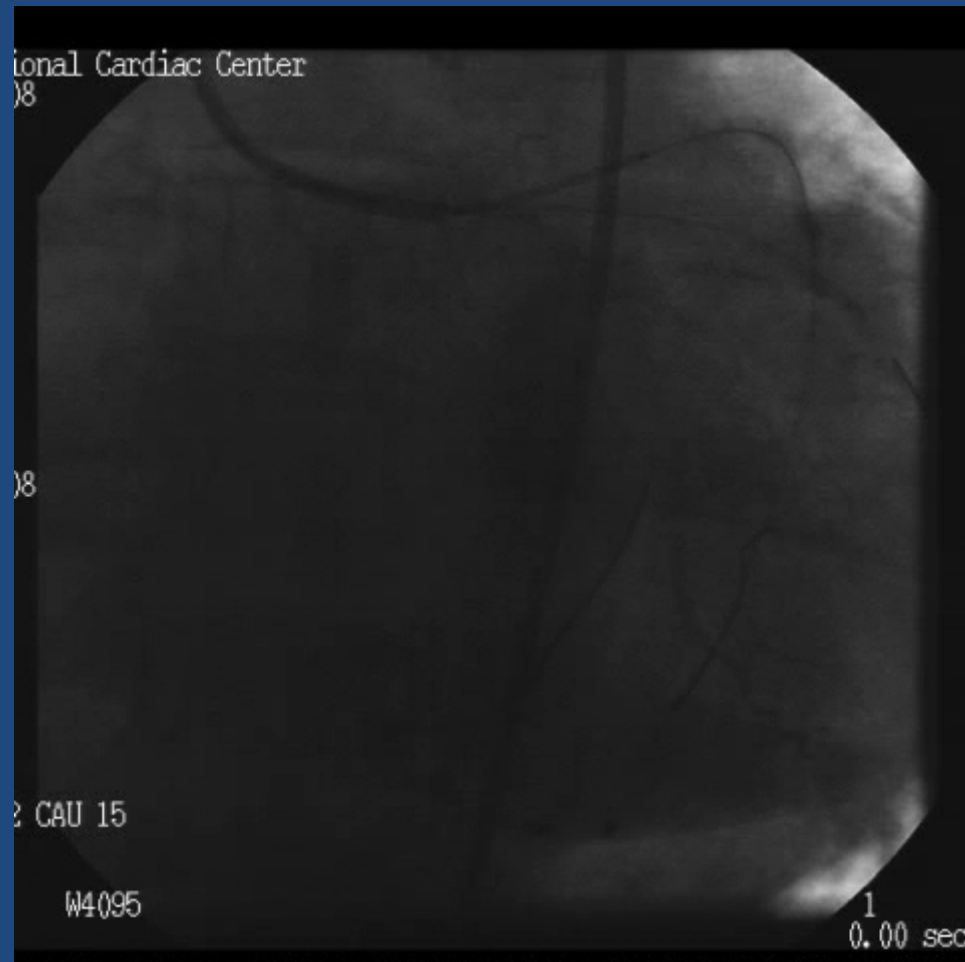
Dissecting flap?



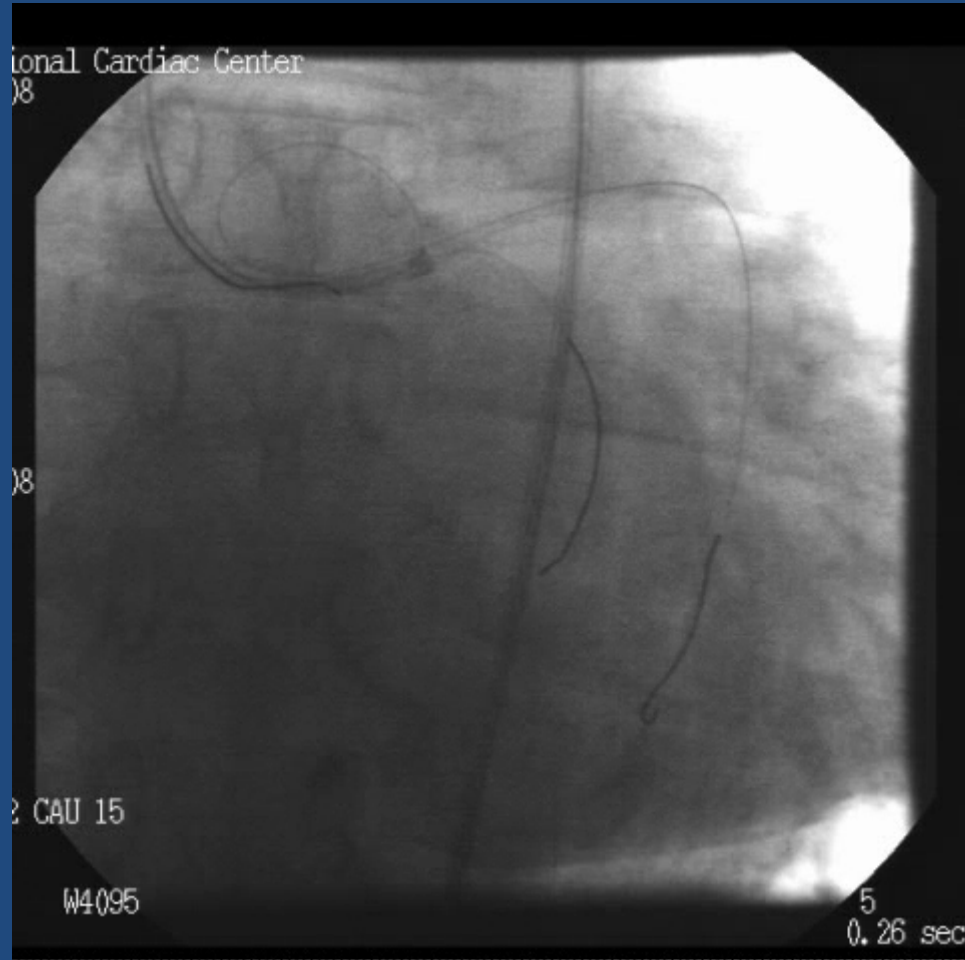
Remove wires and recheck,
what is this?



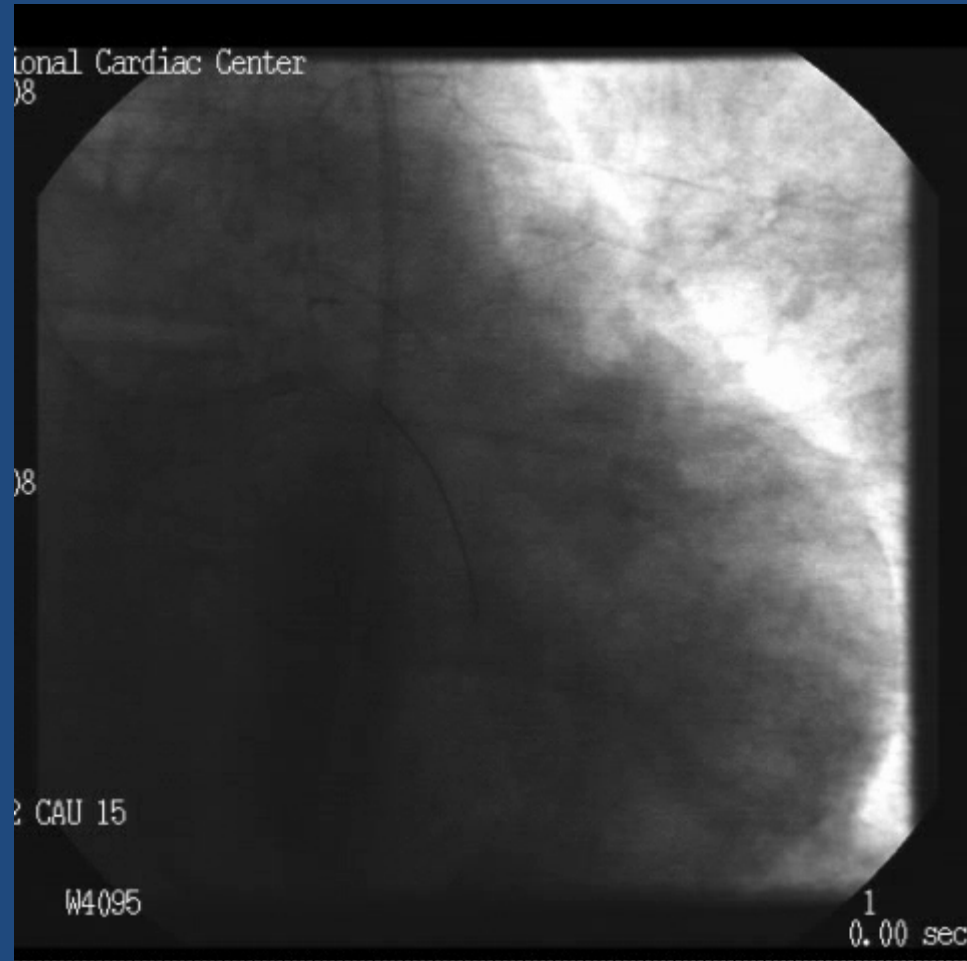
Fourth arrest, rewire immediately then stenting LM to LAD (BMS). No way



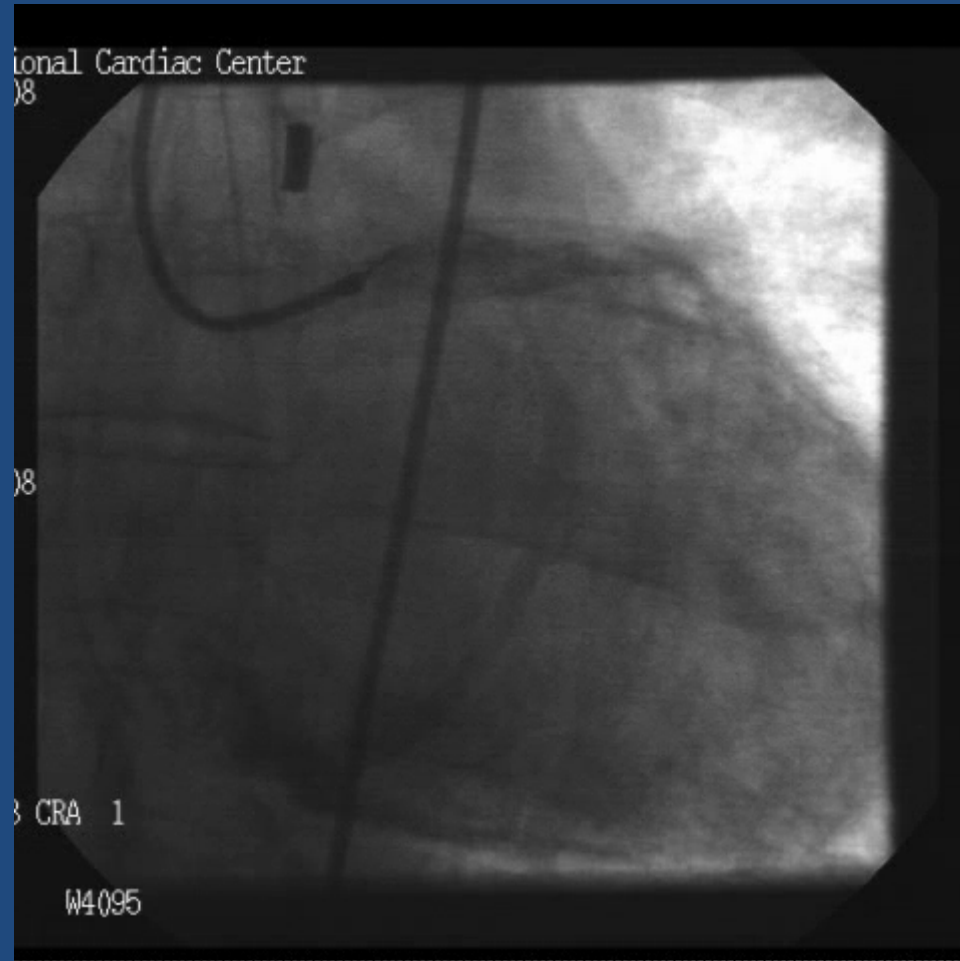
Full deployment but still bradycardia and hypotension



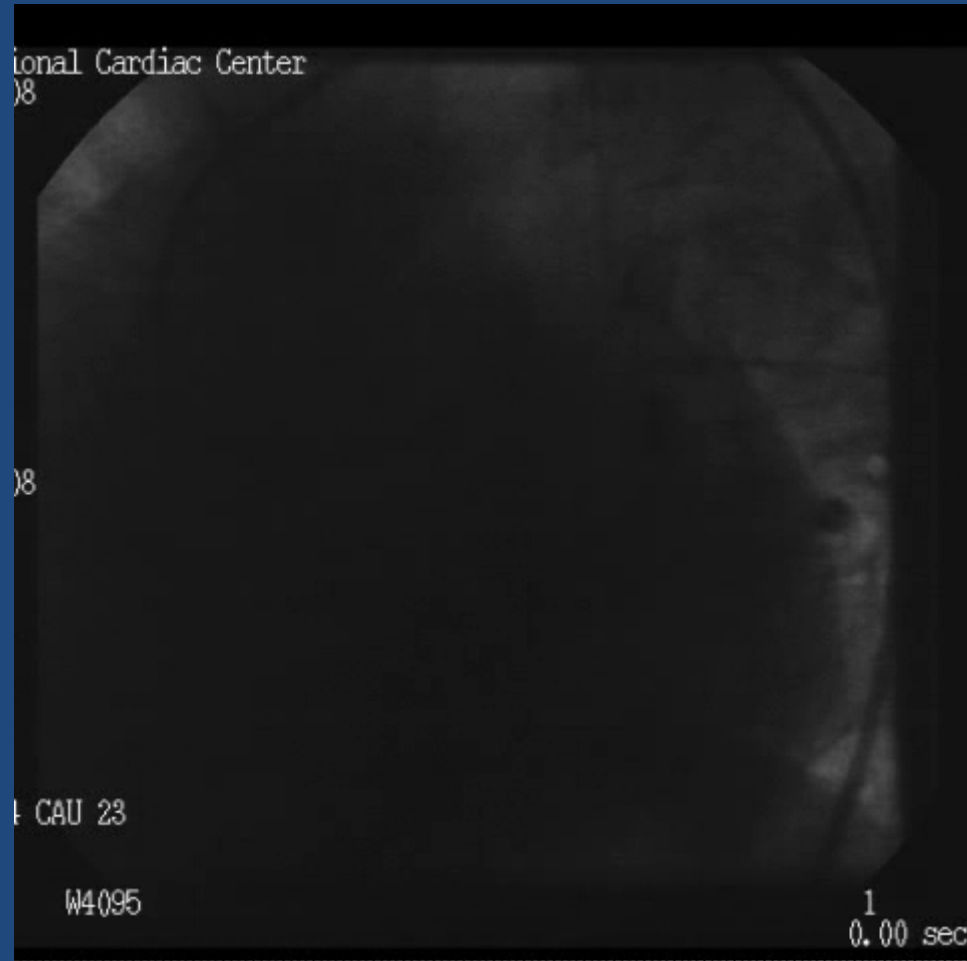
Fifth arrest! Be cool



Intra-aortic balloon pump, remove wire and relax.



Safe landing with
BP: 110/80 HR: 125



Post Cath Management

- ⦿ Patient admitted to ICU, stayed for 4 days
- ⦿ Weaning of ventilator and IABP
- ⦿ Intermediate CCU for 2 days
- ⦿ Ward for 4 days with no pains
- ⦿ Discharged on
 - Plavix 150 mg daily
 - Asprin 150 mg
 - Lipitor 40 mg
 - Bisoprolol 5 mg
 - Insulin therapy

2 months after

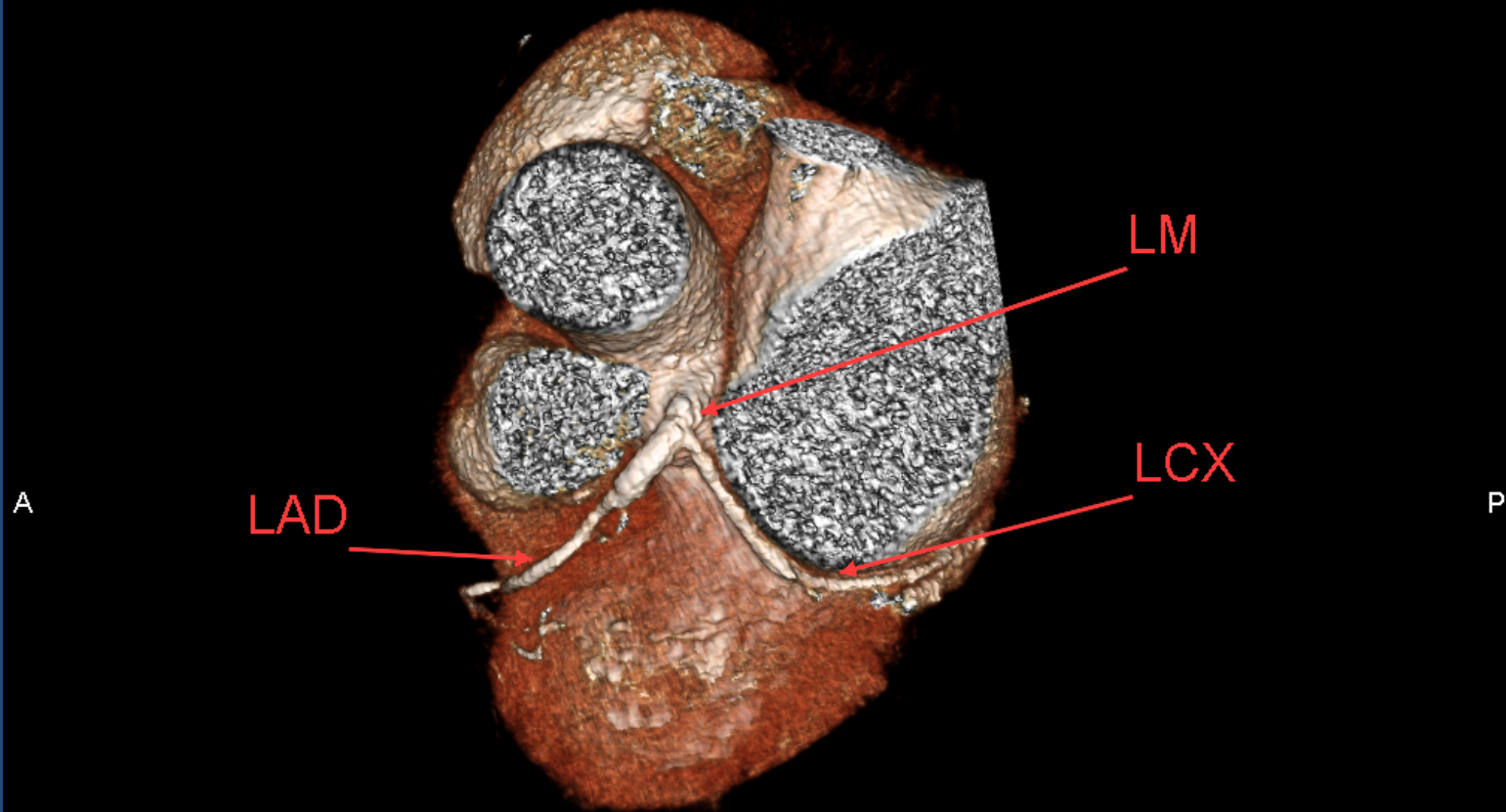
- ⦿ Development of retrosternal chest pain
- ⦿ Normal ECG
- ⦿ Normal Cardiac enzymes
- ⦿ Normal echo Doppler study
- ⦿ Sent for MSCT coronaries

BADRAYA HASSAN
CORONARY 57YR. F
Age:57 years
F
20 Dec 2008
12:55:48

R

ICC
CT

SEGMENT 46% 0.00s,CE,Vol,0.5,46%,46%



kVP:120
mA:460
msec:450
mAs:131
Thk:0.5 mm
Aquilion
RAO174 CRA61

Vitrea®
Phase %046
W/L:241/151
Segmented
LAD

L

BADRAYA HASSAN
CORONARY 57YR. F
Age:57 years
F
20 Dec 2008
12:55:48

S

ICC
CT

SEGMENT 46% 0.00s,CE,Vol,0.5,46%,46%

R

L

LCX

4 cm

KVP:120
mA:460
msec:450
mAs:131
Thk:0.5 mm
Aquilion

Vitrea®
Phase %046
W/L:866/346
short axis 8.30mm MIP Segmented
RCA

I

BADRAYA HASSAN
CORONARY 57YR. F
Age:57 years
F
20 Dec 2008
12:55:48

R

ICC
CT

SEGMENT -476ms 0.00s,CE,Vol,0.

S

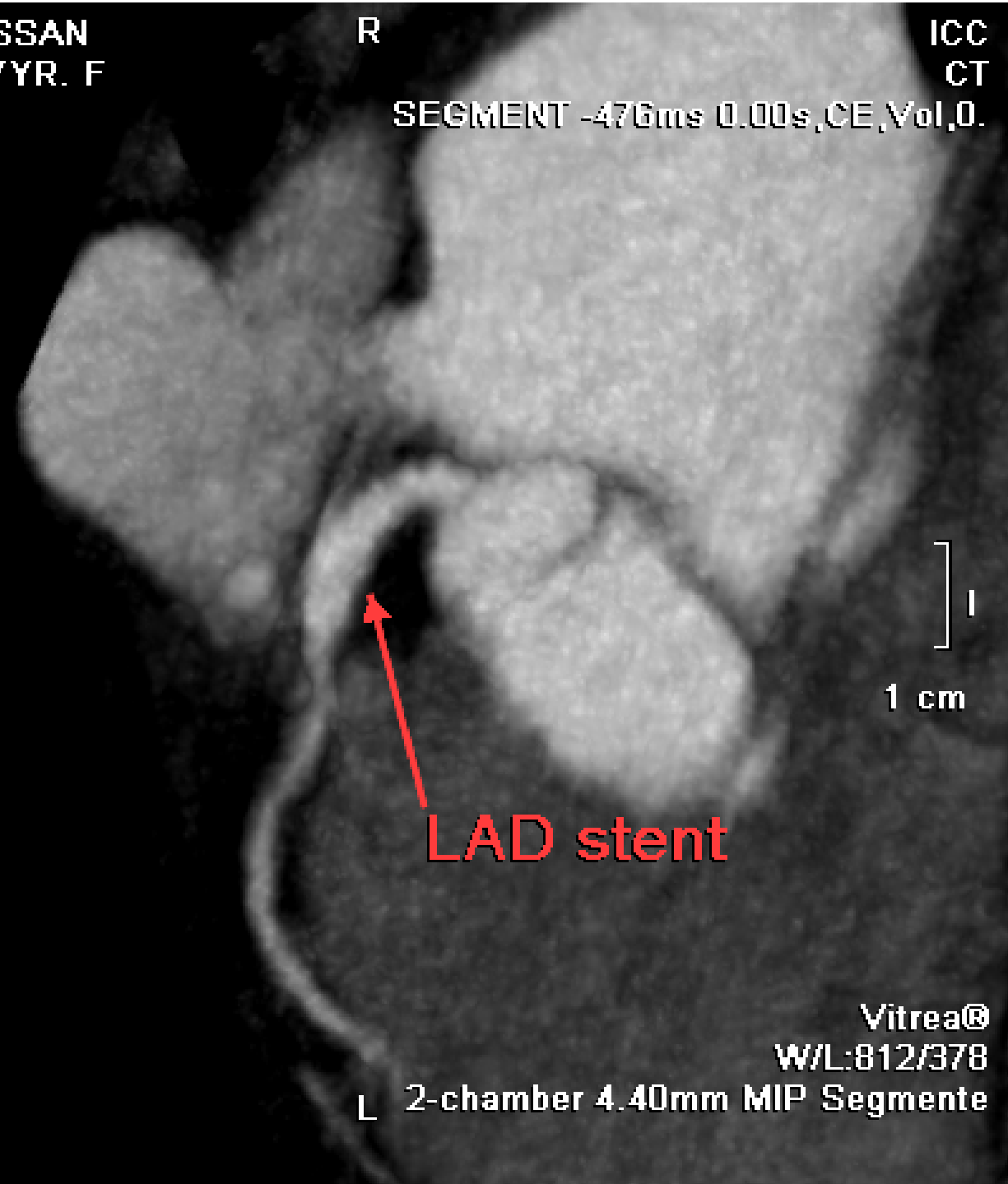
1 cm

LAD stent

kVP:120
mA:460
msec:450
mAs:131
Thk:0.5 mm
Aquilion

Vitrea®
W/L:812/378

L 2-chamber 4.40mm MIP Segmente



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12:55:48

R

ICC
CT

SEGMENT -476ms 0.00s,CE,Vol,0.

S

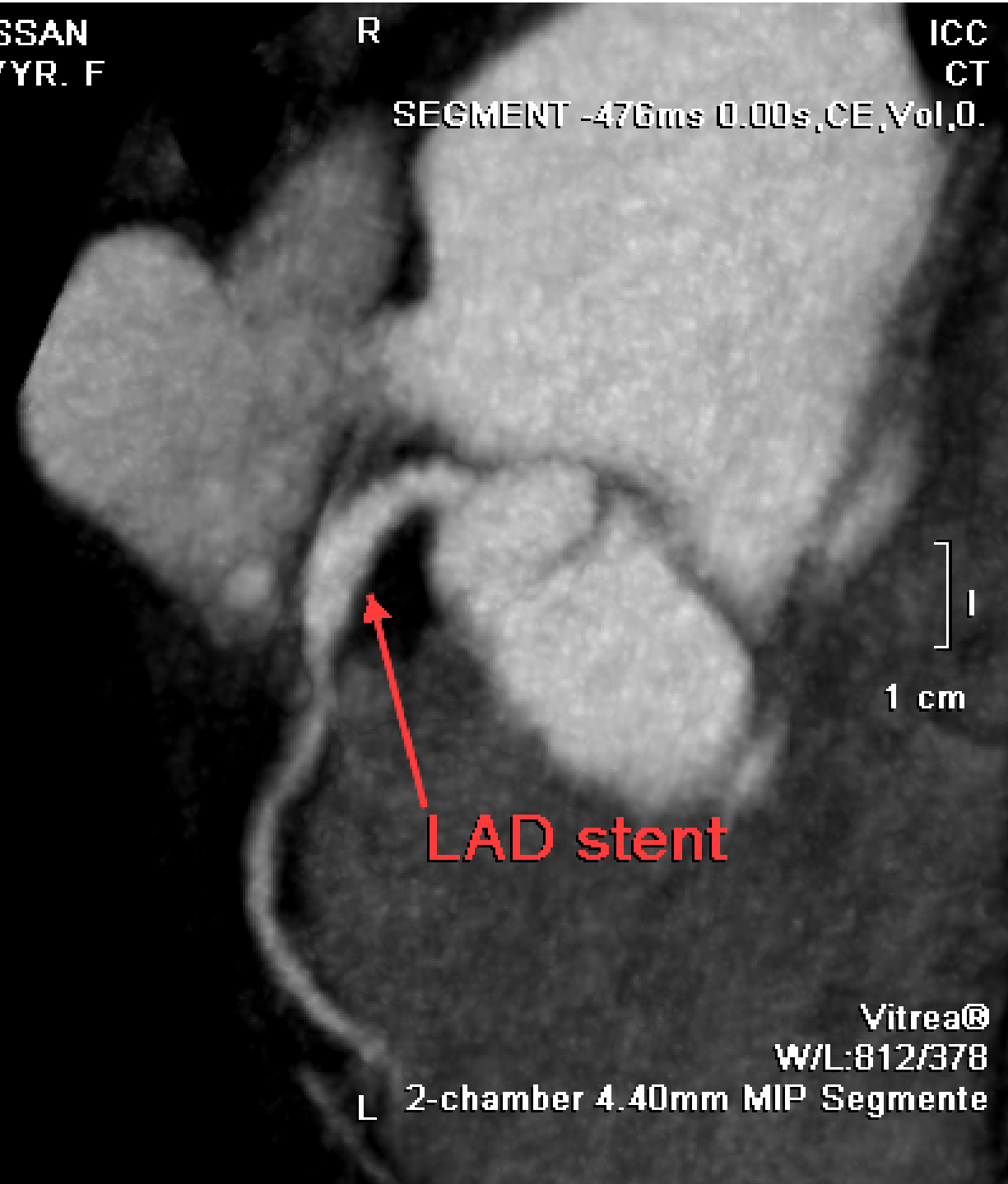
1 cm

LAD stent

kVP:120
mA:460
msec:450
mAs:131
Thk:0.5 mm
Aquilion

Vitrea®
W/L:812/378

L 2-chamber 4.40mm MIP Segmente



BADRAYA HASSAN
CORONARY 57YR. F
Age:57 years
F
20 Dec 2008
12:55:48

A

ICC
CT

SEGMENT -476ms 0.00s,CE,Vol,0.5,-476ms,-476ms

LM-Bifurcation

LAD

R

L

LCX

Occluded Ramus

3 cm

KVP:120
mA:460
msec:450
mAs:131
Thk:0.5 mm
Aquilion

Vitrea®
W/L:812/378
Oblique 4.40mm MIP

P

BADRAYA HASSAN
CORONARY 57YR. F
Age:57 years
F
20 Dec 2008
12:55:48

A

ICC
CT

SEGMENT -476ms 0.00s,CE,Vol,0.5,-476ms,-476ms

LM-Bifurcation

LAD

R

L

LCX

Occluded Ramus

3 cm

KVP:120
mA:460
msec:450
mAs:131
Thk:0.5 mm
Aquilion

Vitrea®
W/L:812/378
Oblique 4.40mm MIP

P

BADRAYA HASSAN
CORONARY 57YR. F
Age:57 years
F
20 Dec 2008
12:55:48

S

ICC
CT

SEGMENT 52% 0.00s,CE,Vol,0.5,52%,52%

A

RCA

P

4 cm

kVP:120
mA:460
msec:450
mAs:131
Thk:0.5 mm
Aquilion

Vitrea®
Phase %052
W/L:1297/513
Oblique 6.35mm MIP Segmented

I

BADRAYA HASSAN
CORONARY 57YR. F
Age:57 years
F
20 Dec 2008
12:55:48

S

ICC
CT

SEGMENT 52% 0.00s,CE,Vol,0.5,52%,52%

A

RCA

P

4 cm

kVP:120
mA:460
msec:450
mAs:131
Thk:0.5 mm
Aquilion

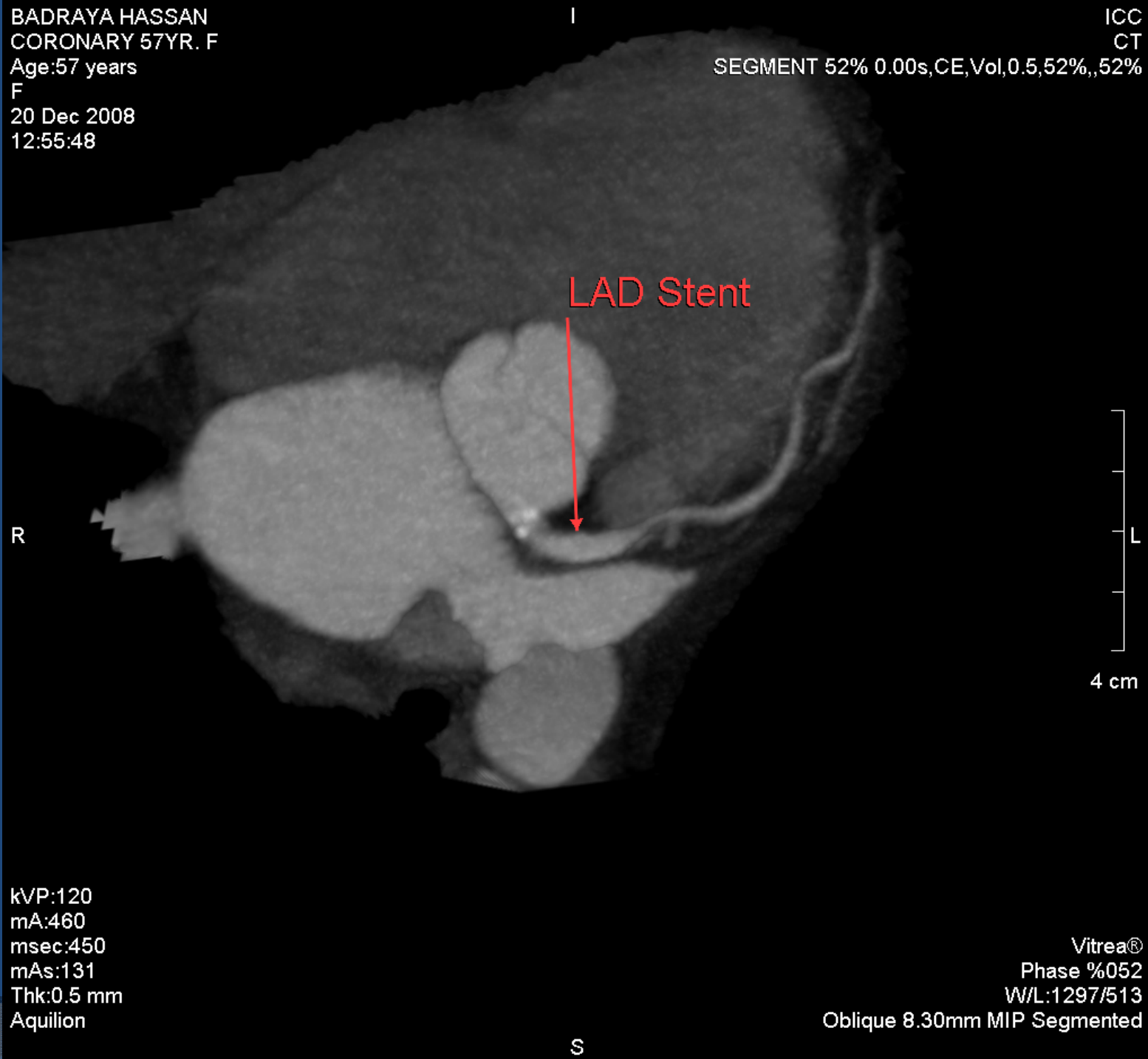
Vitrea®
Phase %052
W/L:1297/513
Oblique 6.35mm MIP Segmented

I

BADRAYA HASSAN
CORONARY 57YR. F
Age:57 years
F
20 Dec 2008
12:55:48

SEGMENT 52% 0.00s,CE,Vol,0.5,52%,.52%

ICC
CT



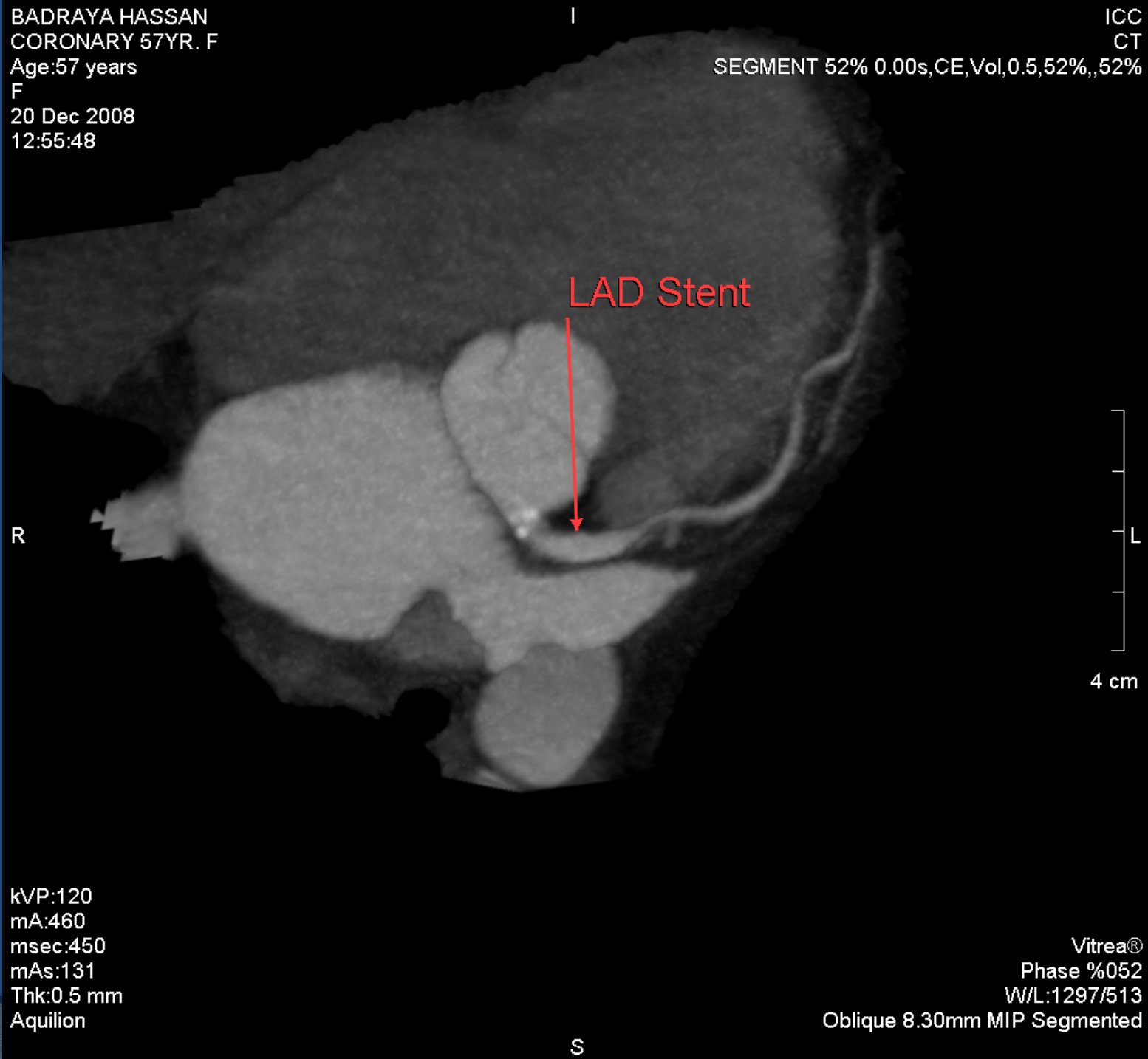
kVP:120
mA:460
msec:450
mAs:131
Thk:0.5 mm
Aquilion

Vitrea®
Phase %052
W/L:1297/513
Oblique 8.30mm MIP Segmented

BADRAYA HASSAN
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Age:57 years
F
20 Dec 2008
12:55:48

SEGMENT 52% 0.00s,CE,Vol,0.5,52%,.52%

ICC
CT



LAD Stent

R

L

4 cm

kVP:120
mA:460
msec:450
mAs:131
Thk:0.5 mm
Aquilion

Vitrea®
Phase %052
W/L:1297/513
Oblique 8.30mm MIP Segmented

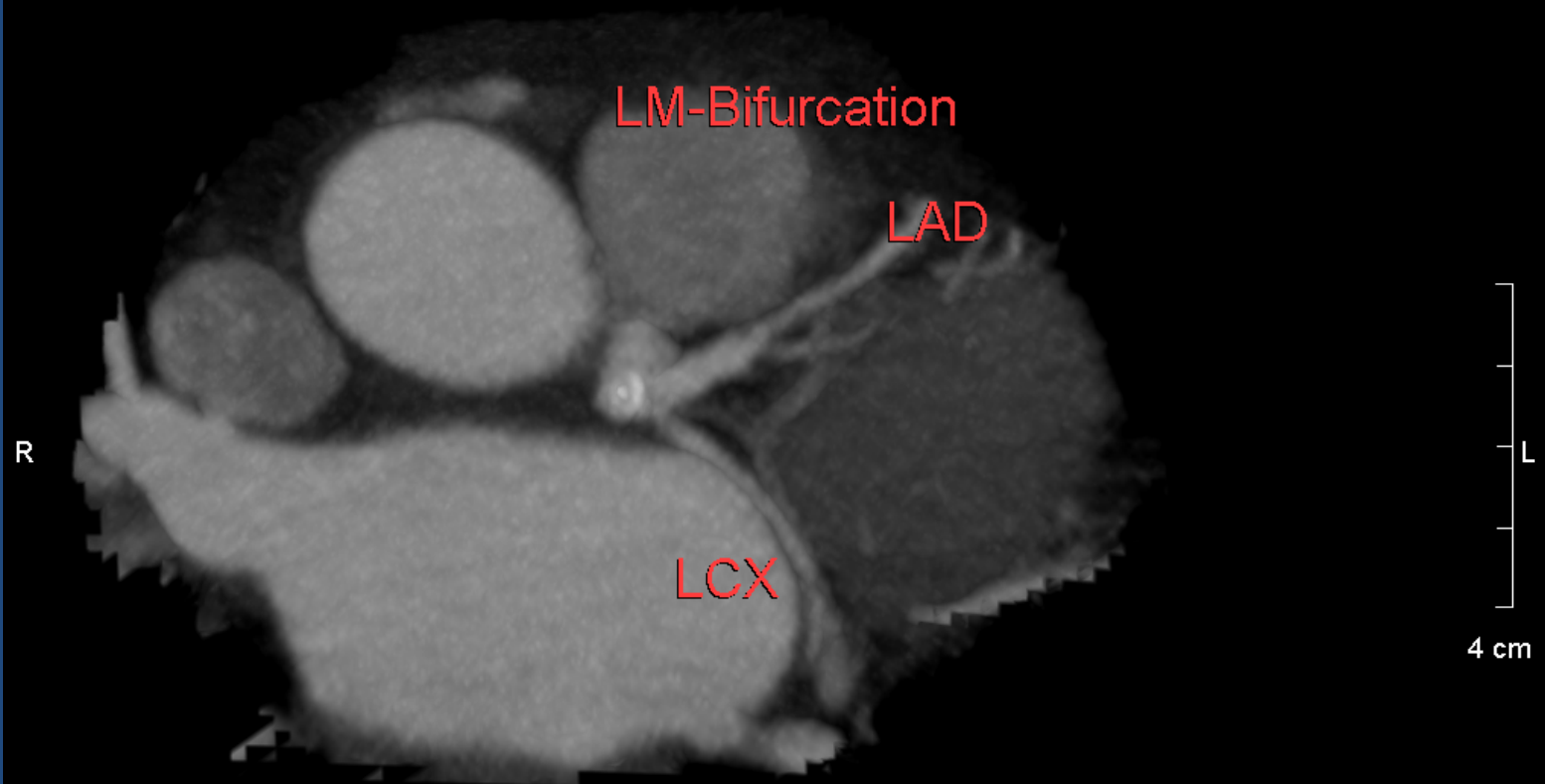
S

BADRAYA HASSAN
CORONARY 57YR. F
Age:57 years
F
20 Dec 2008
12:55:48

A

ICC
CT

SEGMENT 52% 0.00s,CE,Vol,0.5,52%,.52%



KVP:120
mA:460
msec:450
mAs:131
Thk:0.5 mm
Aquilion

Vitrea®
Phase %052
W/L:1297/513

Oblique 8.30mm MIP Segmented

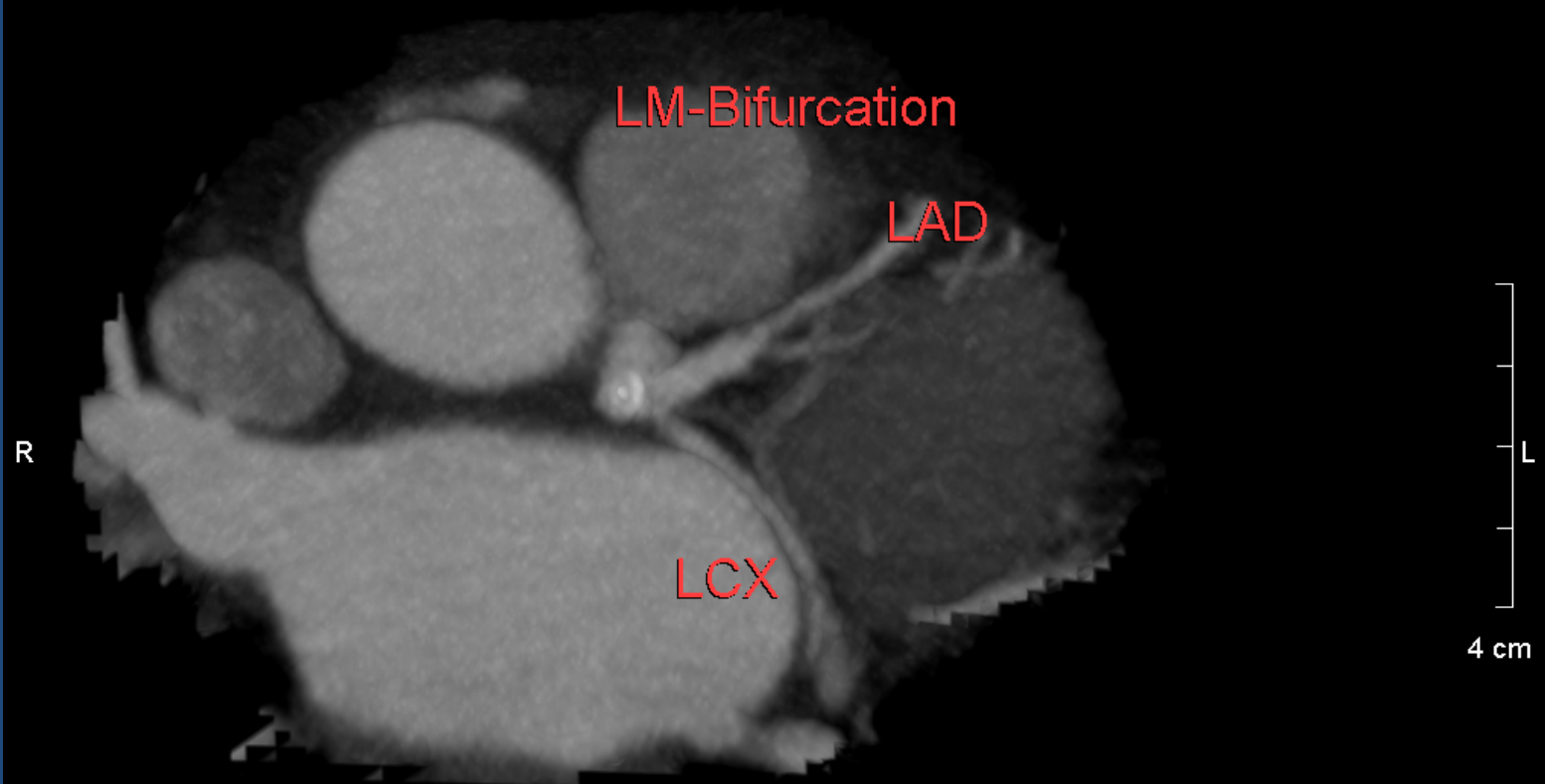
P

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Age:57 years
F
20 Dec 2008
12:55:48

A

ICC
CT

SEGMENT 52% 0.00s,CE,Vol,0.5,52%,.52%



kVP:120
mA:460
msec:450
mAs:131
Thk:0.5 mm
Aquilion

Vitrea®
Phase %052
W/L:1297/513

Oblique 8.30mm MIP Segmented

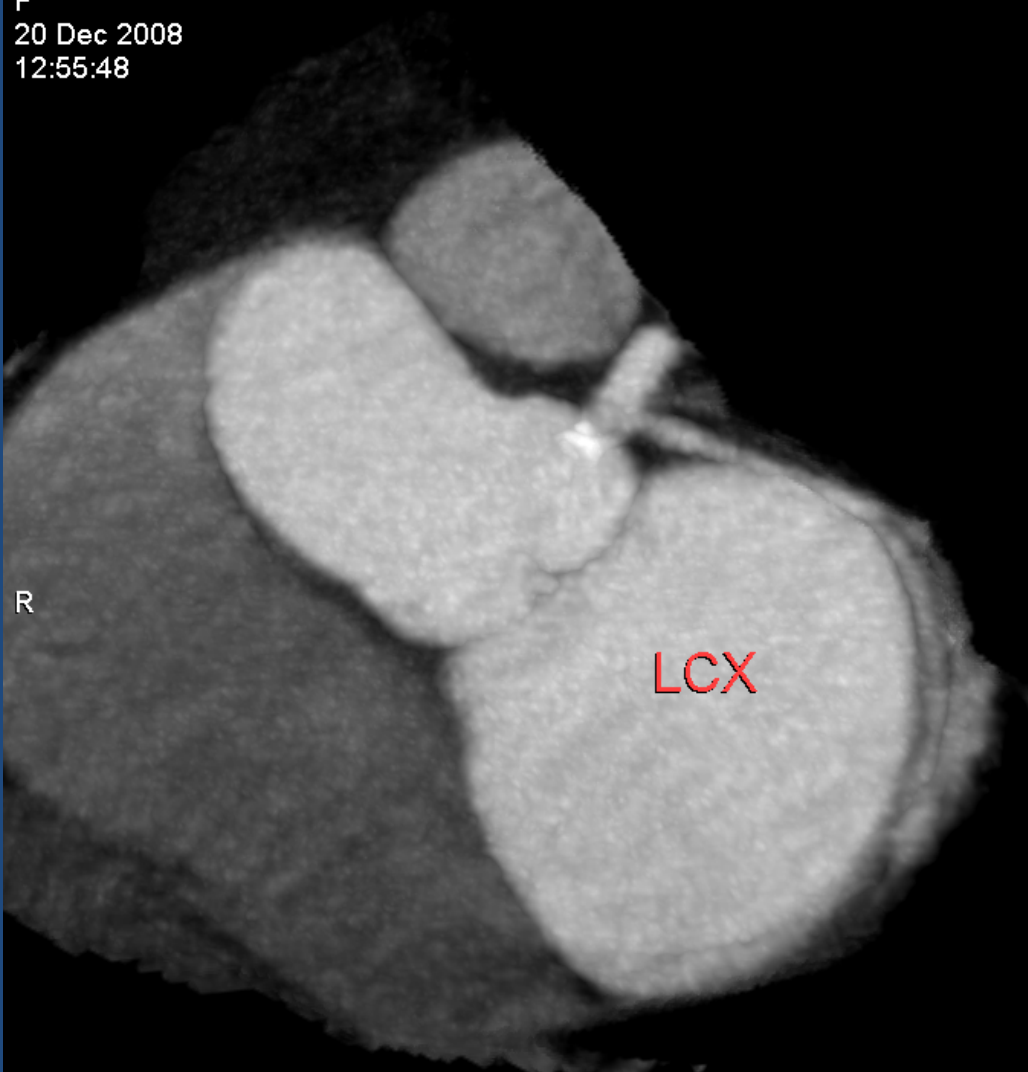
P

BADRAYA HASSAN
CORONARY 57YR. F
Age:57 years
F
20 Dec 2008
12:55:48

S

ICC
CT

SEGMENT 46% 0.00s,CE,Vol,0.5,46%,46%



kVP:120
mA:460
msec:450
mAs:131
Thk:0.5 mm
Aquilion

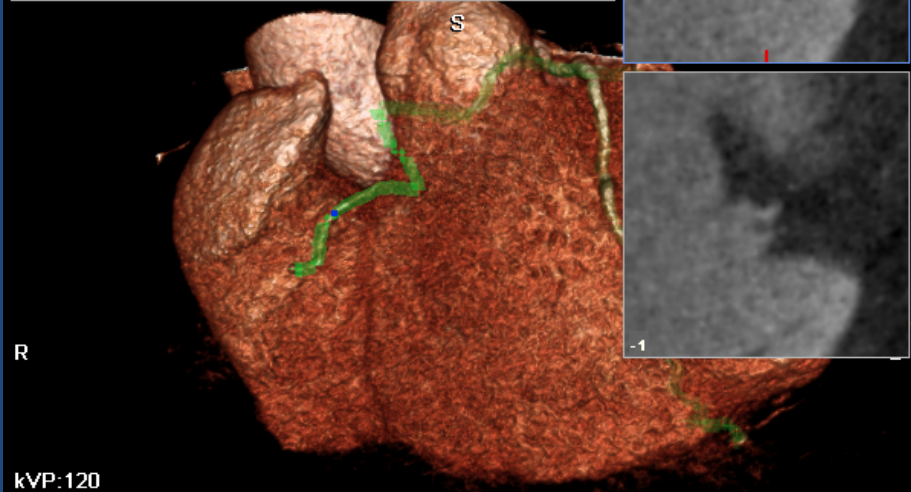
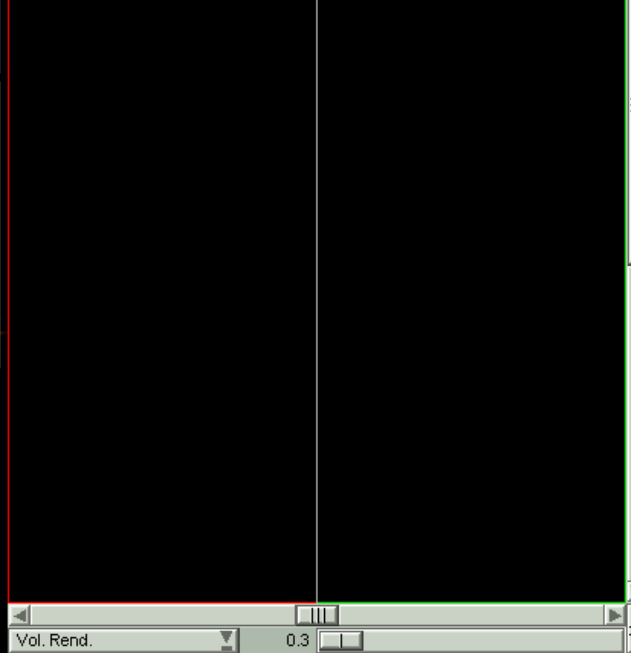
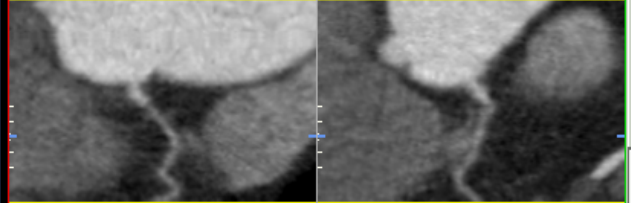
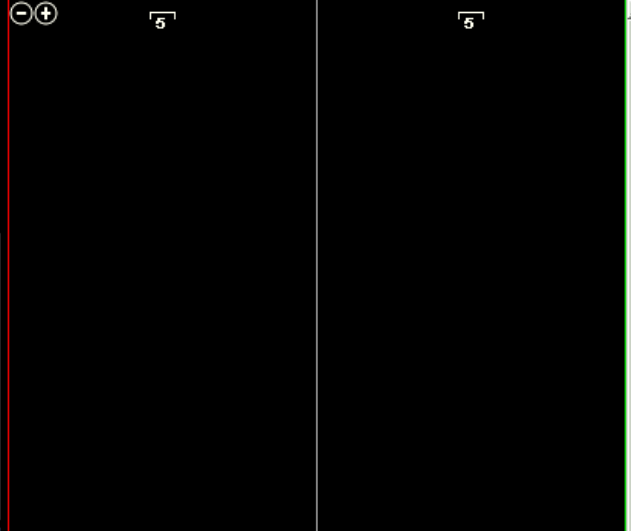
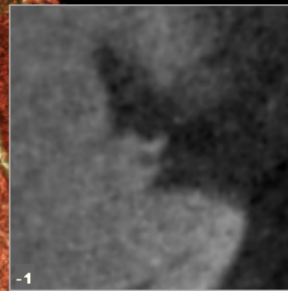
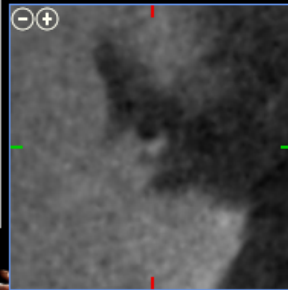
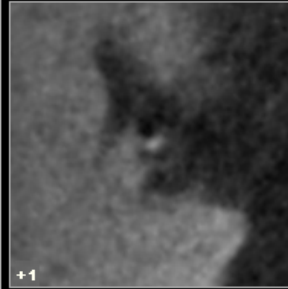
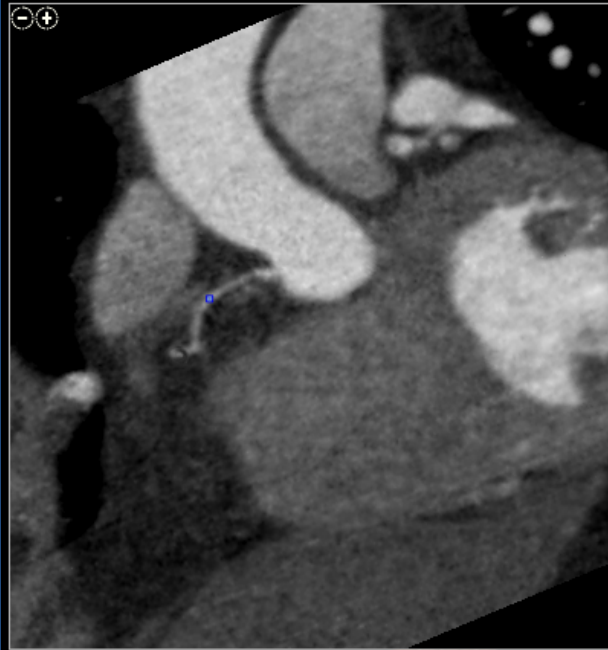
Vitrea®
Phase %046
W/L:866/346
short axis 8.30mm MIP Segmented
RCA

I

BADRAYA HASSAN
CORONARY 57YR. F
Age: 57 years
F

SEGMENT 46% 0.00s, CE, Vol, 0.5, 46%, .4

ICC
CT



R

kVP: 120
mA: 460
msec: 450
mAs: 131
Thk: 0.5 mm
Aquilion
LAO37 CRA14

Vitre@
Phase %046
WL: 241/151
Segmented
RCA

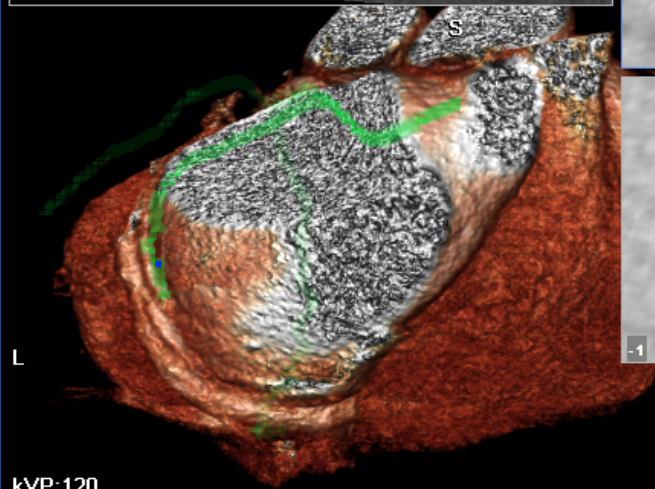
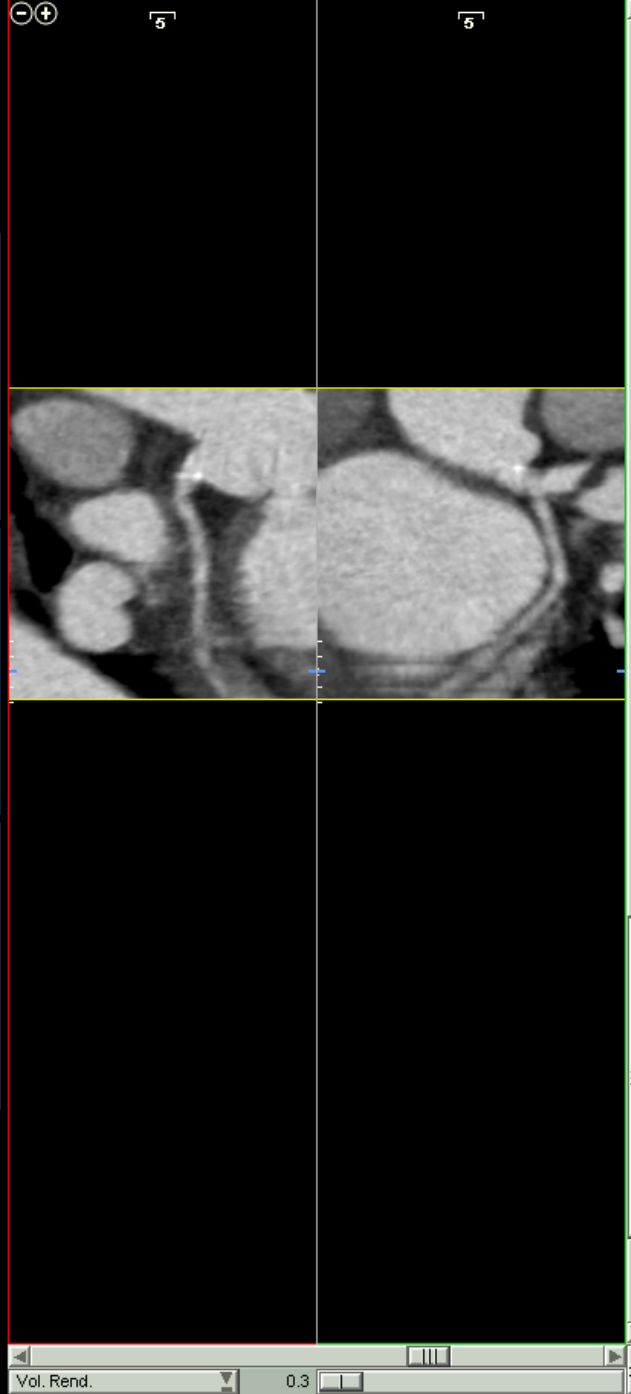
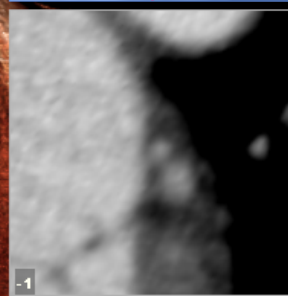
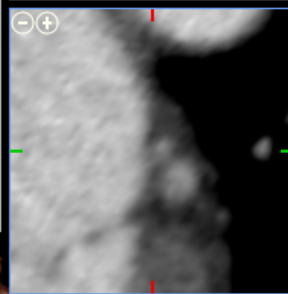
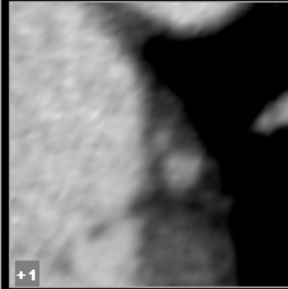
Vol. Rend.

0.3

BADRAYA HASSAN
CORONARY 57YR. F
Age: 57 years
F

SEGMENT 46% 0.00s, CE, Vol, 0.5, 46%, .4

ICC
CT



kVP: 120
mA: 460
msec: 450
mAs: 131
Thk: 0.5 mm
Aquilion
RAO145 CRA6

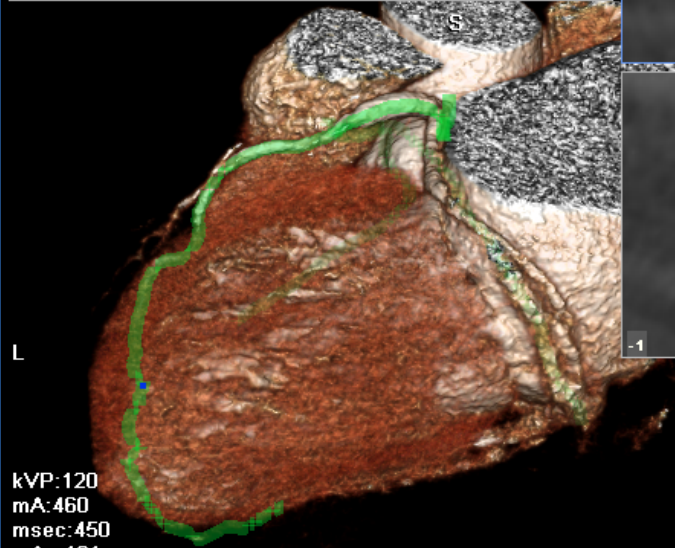
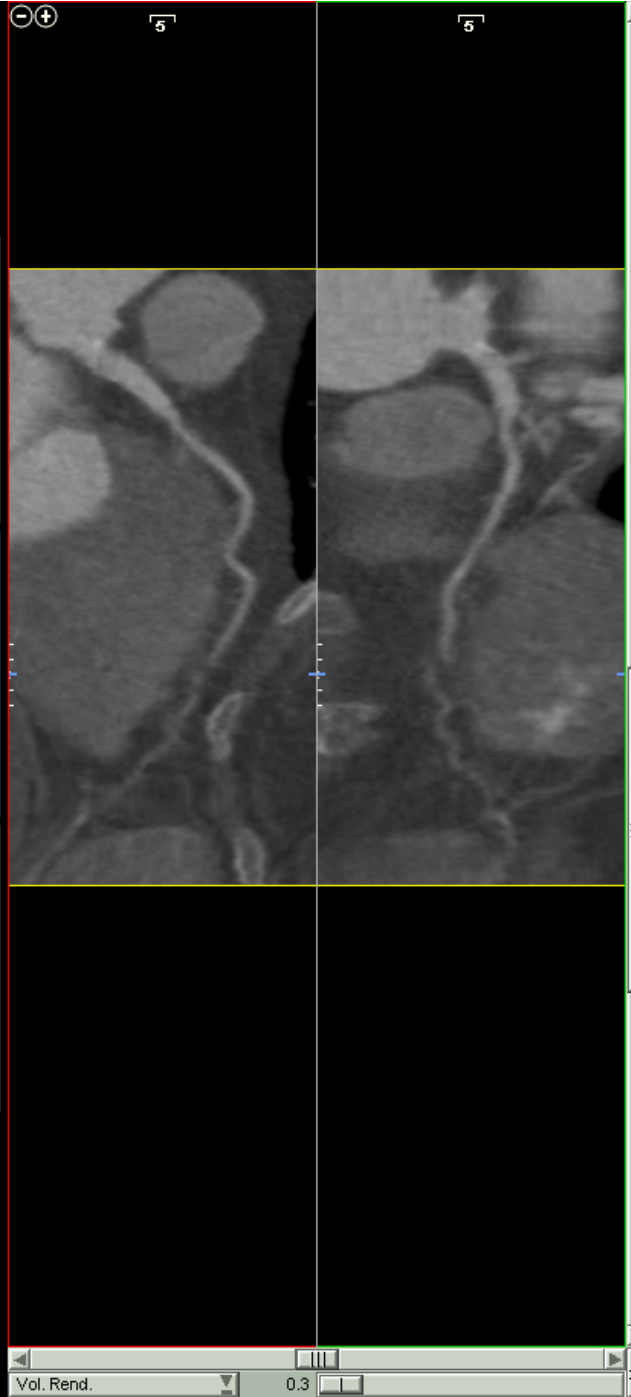
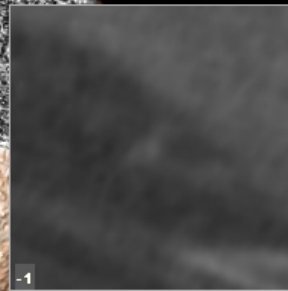
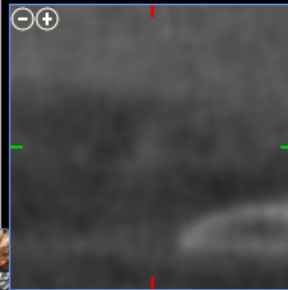
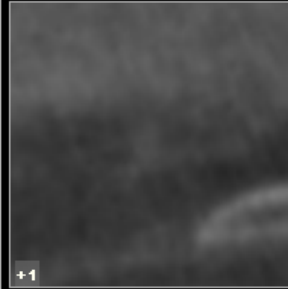
Vitrea®
Phase %046
WL: 241/151
Segmented
LCX.

Vol. Rend. 0.3

BADRAYA HASSAN
CORONARY 57YR. F
Age: 57 years
F

SEGMENT 46% 0.00s, CE, Vol, 0.5, 46%, .4

ICC
CT



L
kVP: 120
mA: 460
msec: 450
mAs: 131
Thk: 0.5 mm
Aquilion
LAO140 CRA7

Vitrea®
Phase %046
WL: 241/151
Segmented
LAD

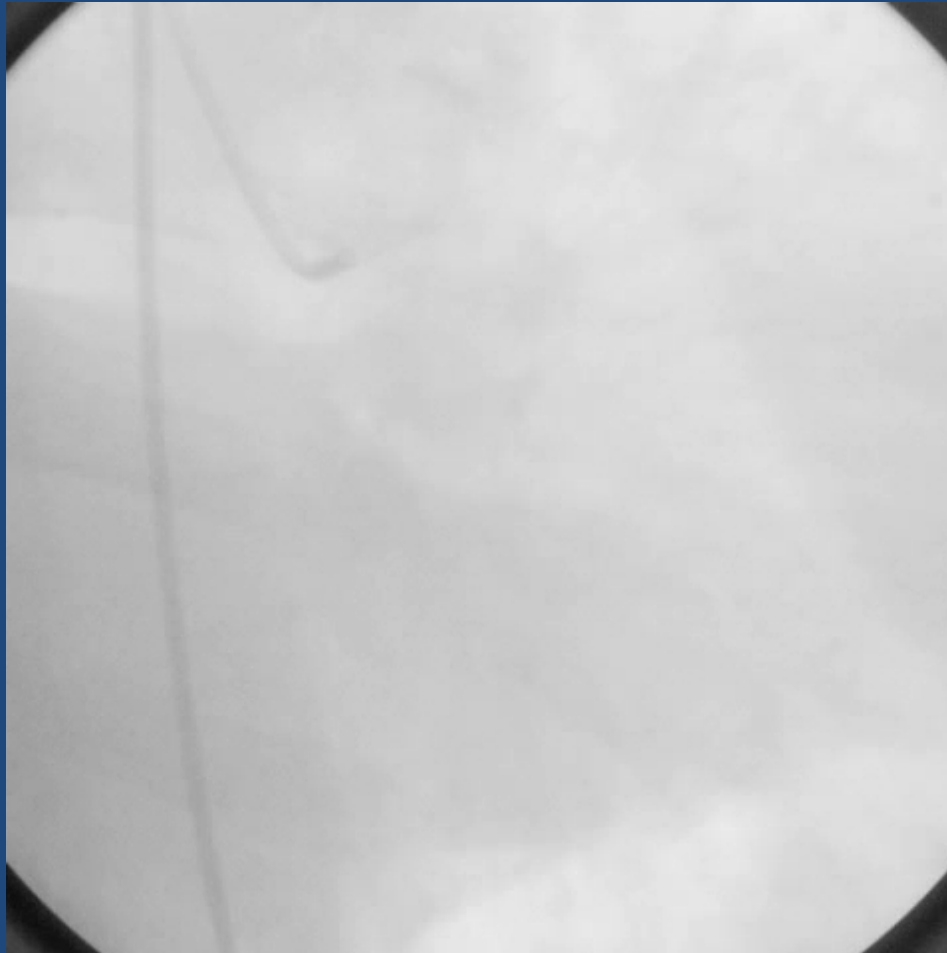
Vol. Rend.

0.3

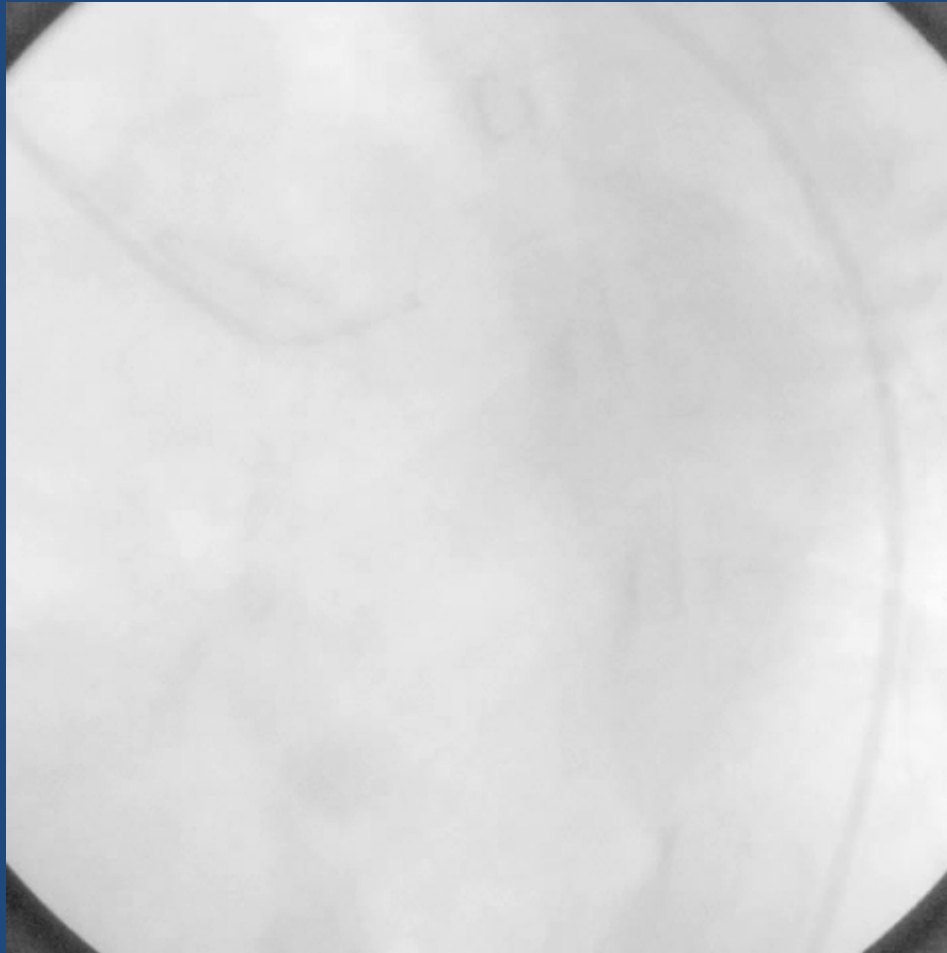
One month After full medical treatment

Unstable Angina

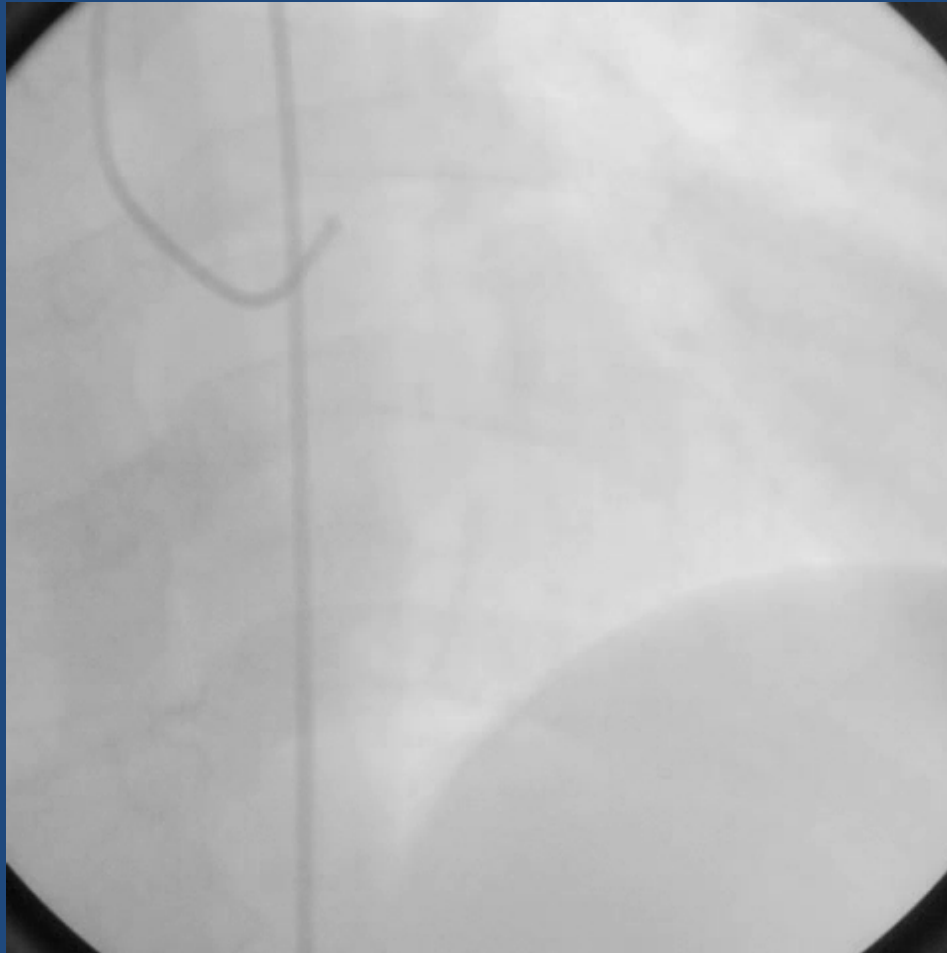
Patent LM-LAD stent



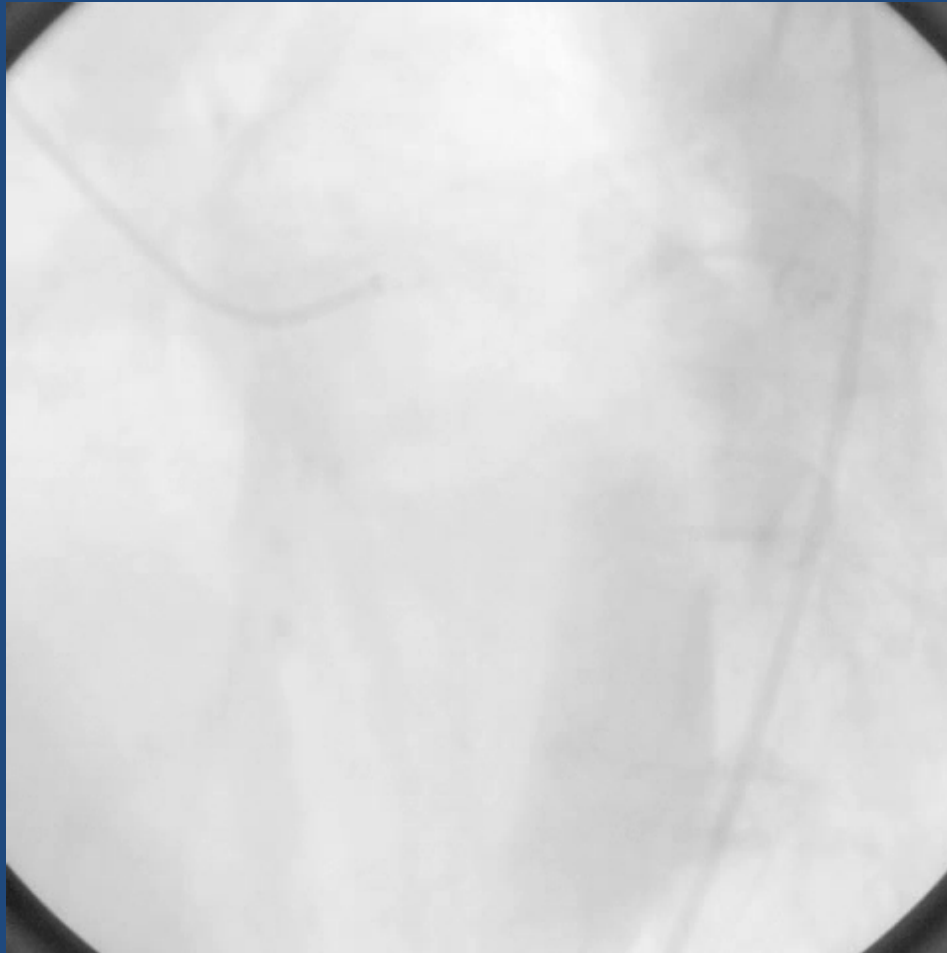
Patent LM-LAD stent + Osteal Cx lesion



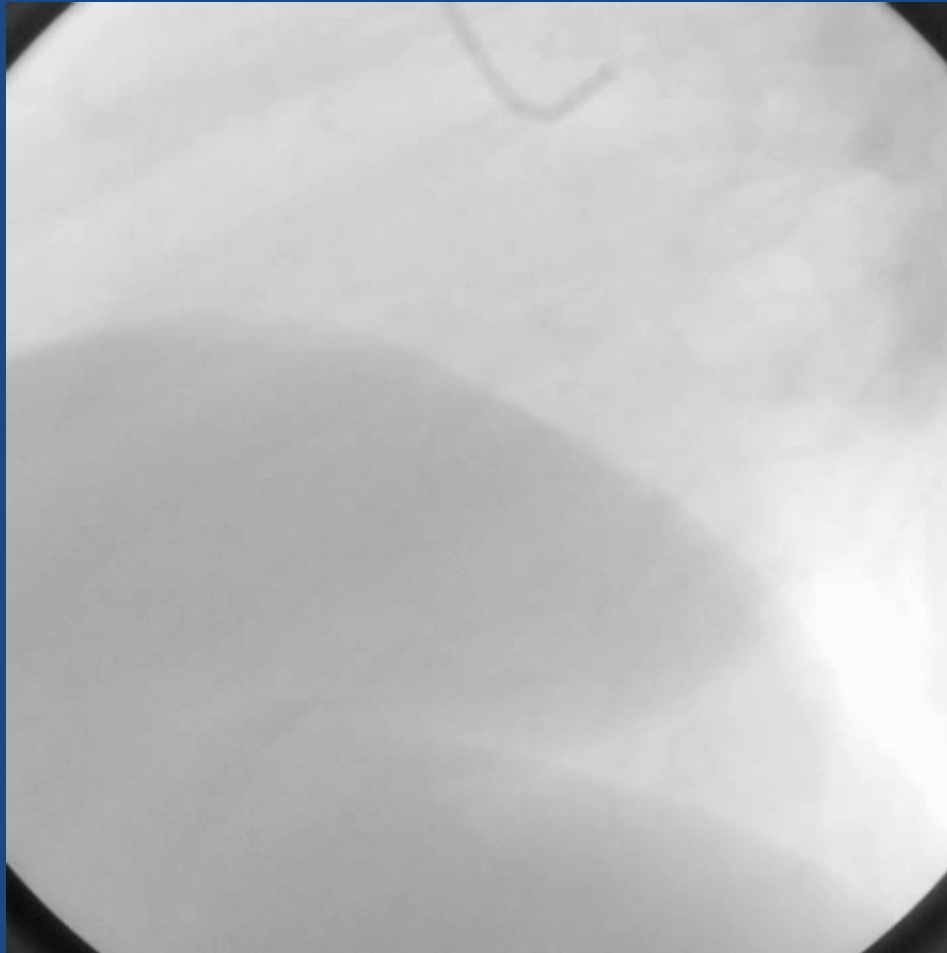
PA-CRANIAL VIEW



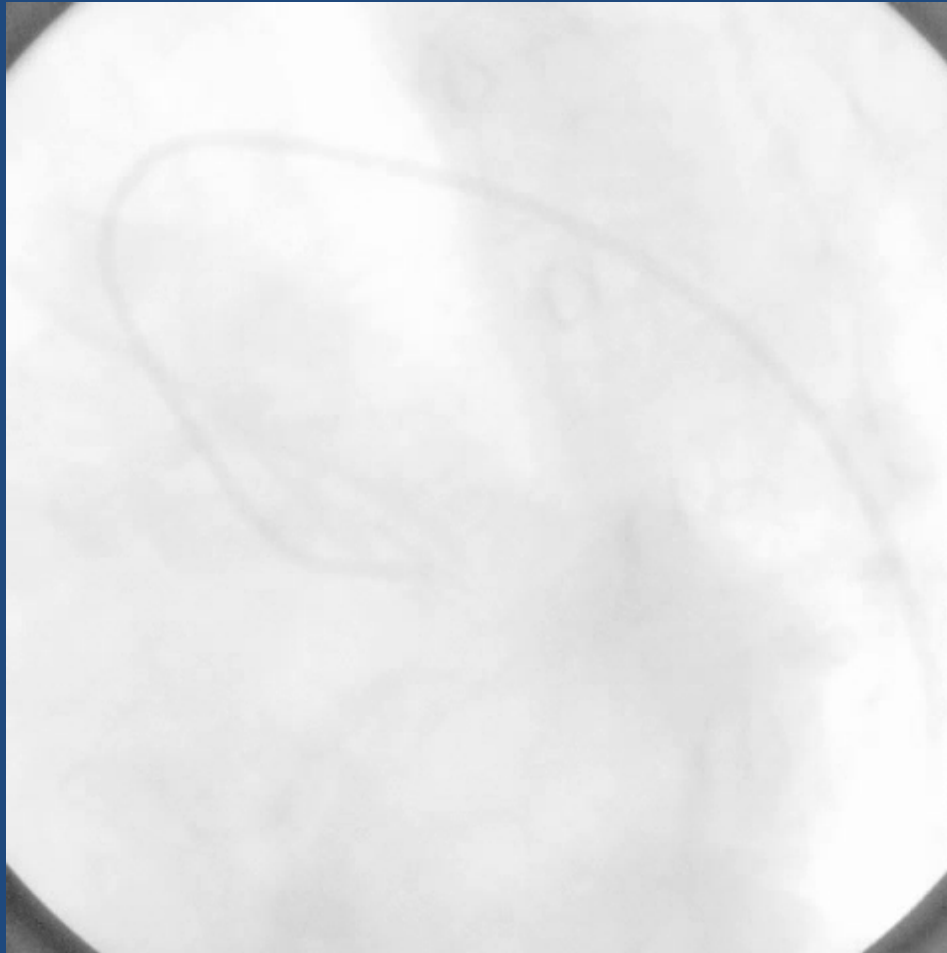
LAO-CRANIAL VIEW



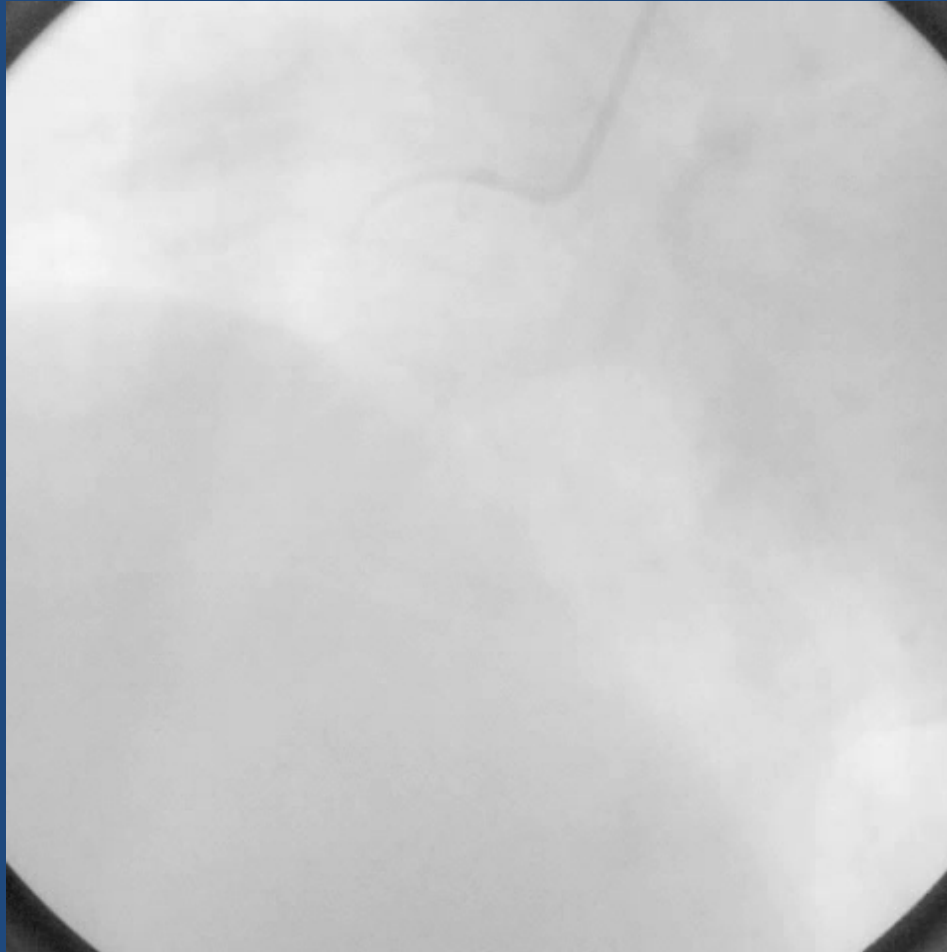
LATERAL VIEW



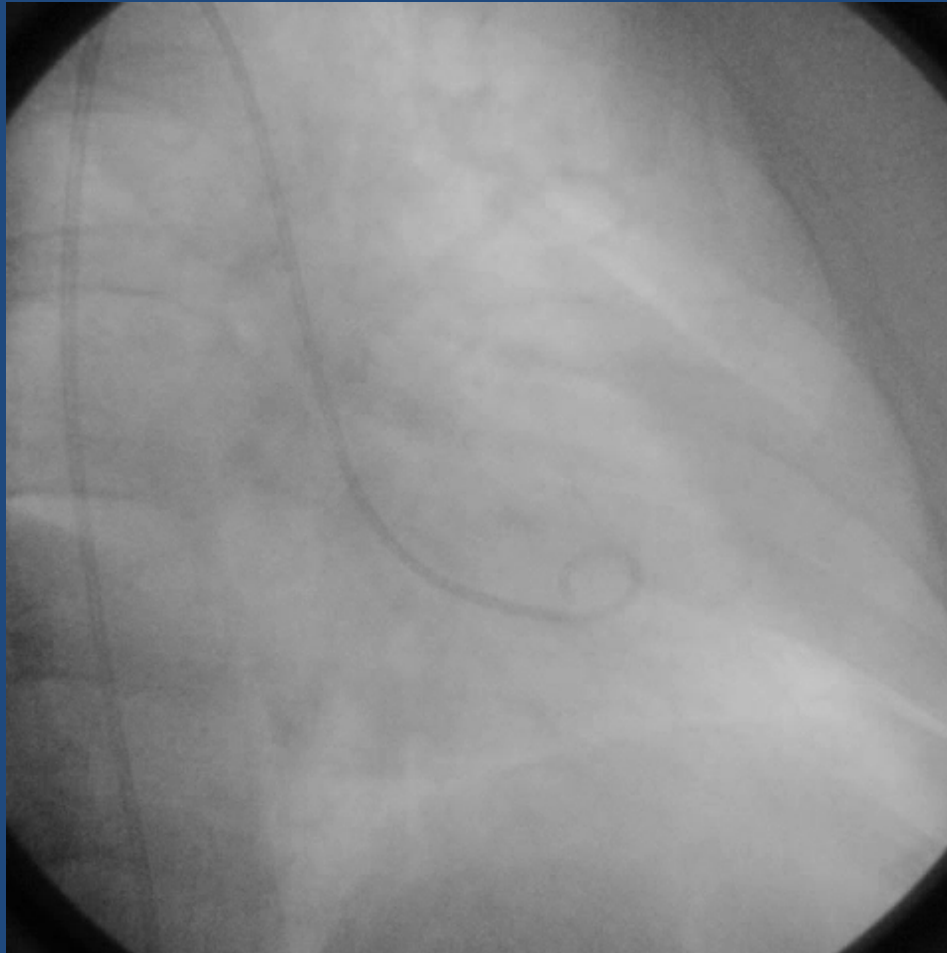
SPIDER VIEW (Ostial CX Lesion)



The same non-dominant RCA



LV Angio + EF 65%



The Patient was sent for

CABG

Learn and teach

- ⦿ No simple cath
- ⦿ Don't panic and stay calm, cool, confident
- ⦿ You are the cathlab leader
- ⦿ Team work is mandatory
- ⦿ Fight for the life of your patient
- ⦿ God will help you when you do your best.