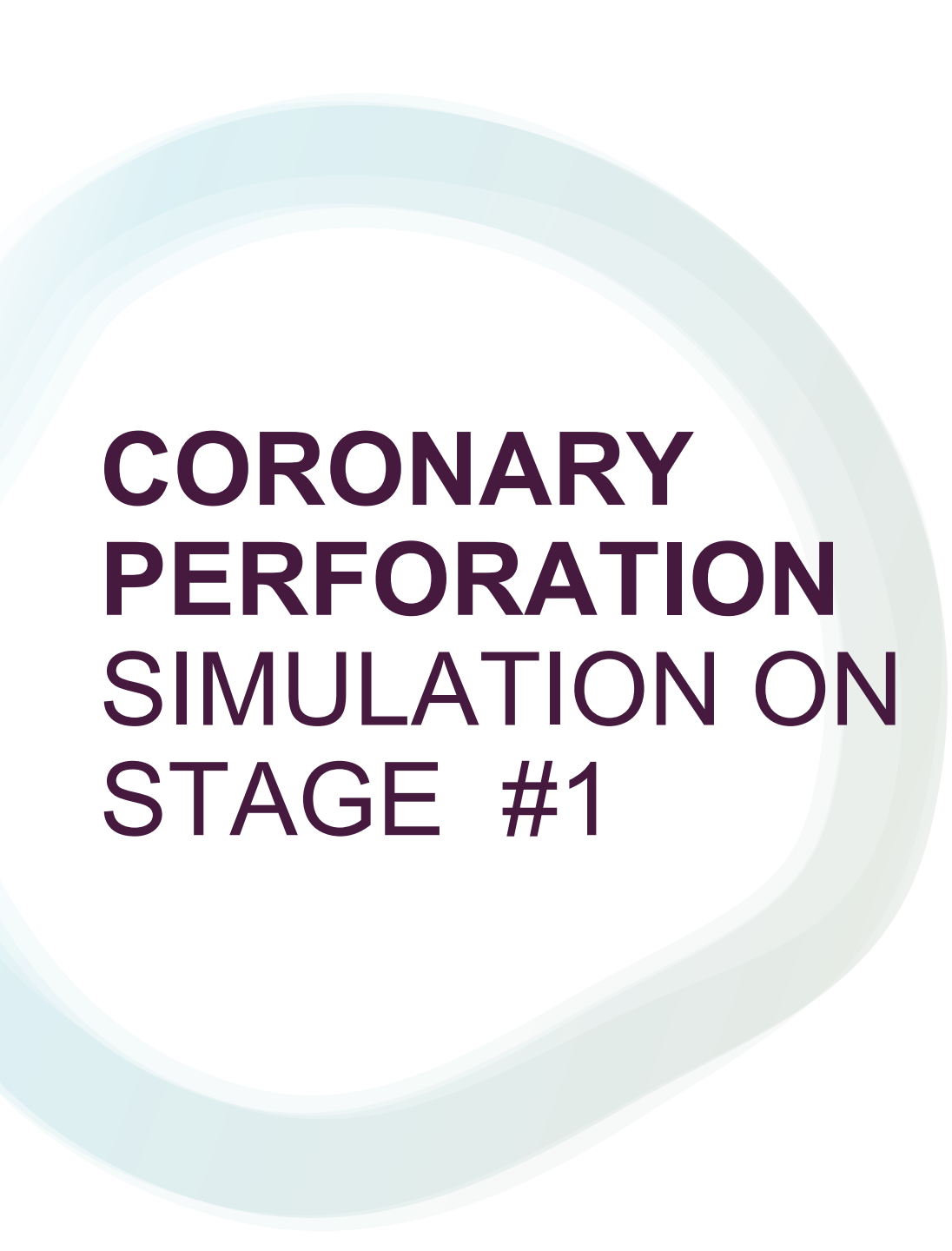




CORONARY PERFORATION SIMULATION ON STAGE #1

Image size: 512 x 512
View size: 695 x 695
WL: 128 WW: 254

352477 (69 y , 68 y)
Cardiokw(GASNOF) - unnamed
F20014529
2





Image size: 512 x 512

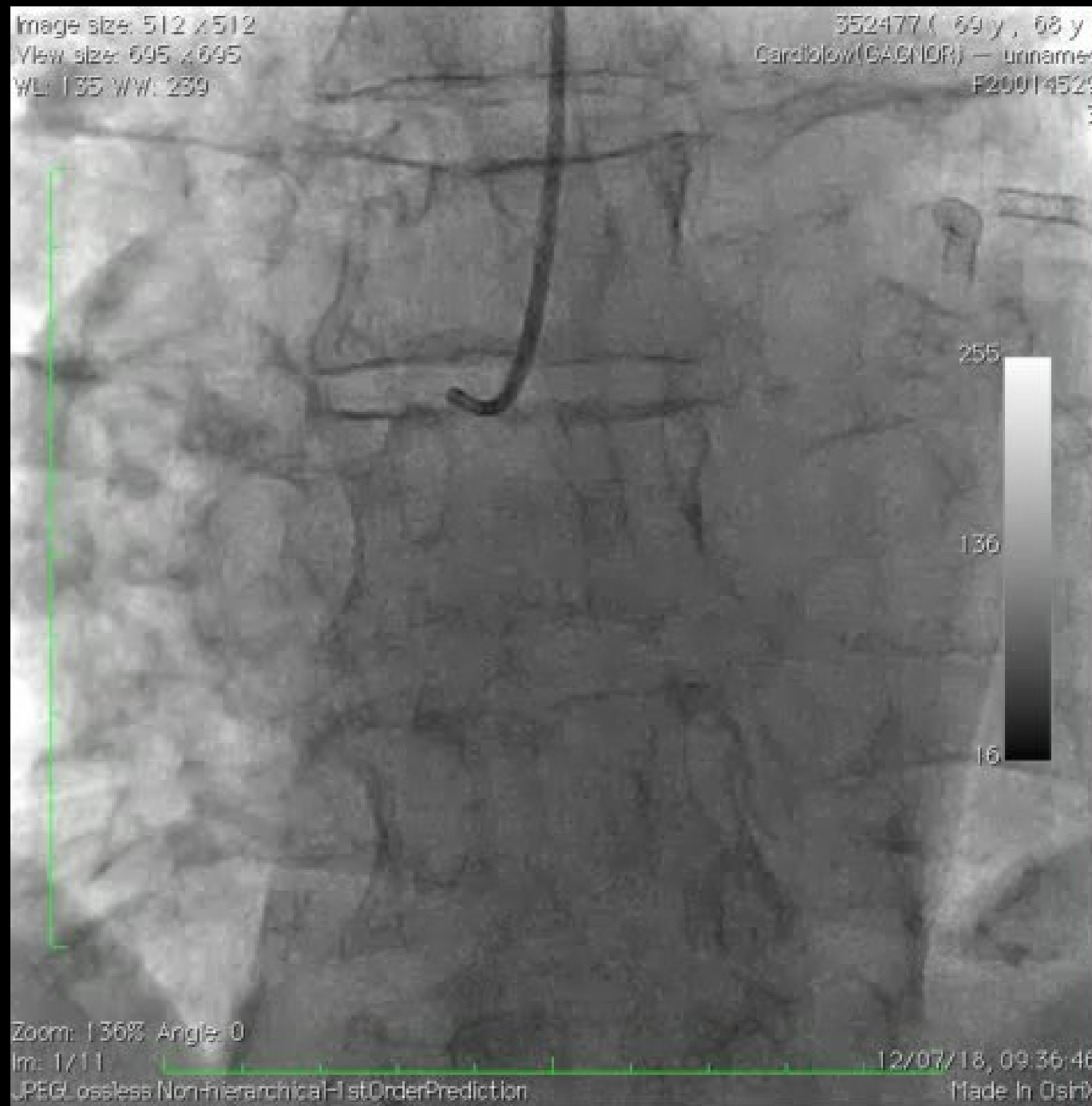
View size: 695 x 695

WL: 135 HVL: 239

352477 (69 y , 68 y

Cardiolog(CACNOR) - unname

F20014524



Zoom: 136% Angle: 0

Im: 1/11

JPEG, lossless Non-hierarchical-1stOrderPrediction

12/07/18, 09:36:46

Made in Osir

Image size: 512 x 512
View size: 695 x 695
WL: 128 WW: 254

352477 (69 y , 68 y)
Cardiolow(GAGNOR) — unnamed
F20014529
7

255

128

1

Zoom: 136% Angle: 0

Im: 1/2

12/07/18, 09:46:48

JPEGLossless Non-hierarchical-1 stOrderPrediction

Made In Osirix



Image size: 512 x 512

Low size: 695 x 695

L: 127 W/W: 253

352477 (69 y , 68

Cardiolow(GAGNOR) — unnan

F200145

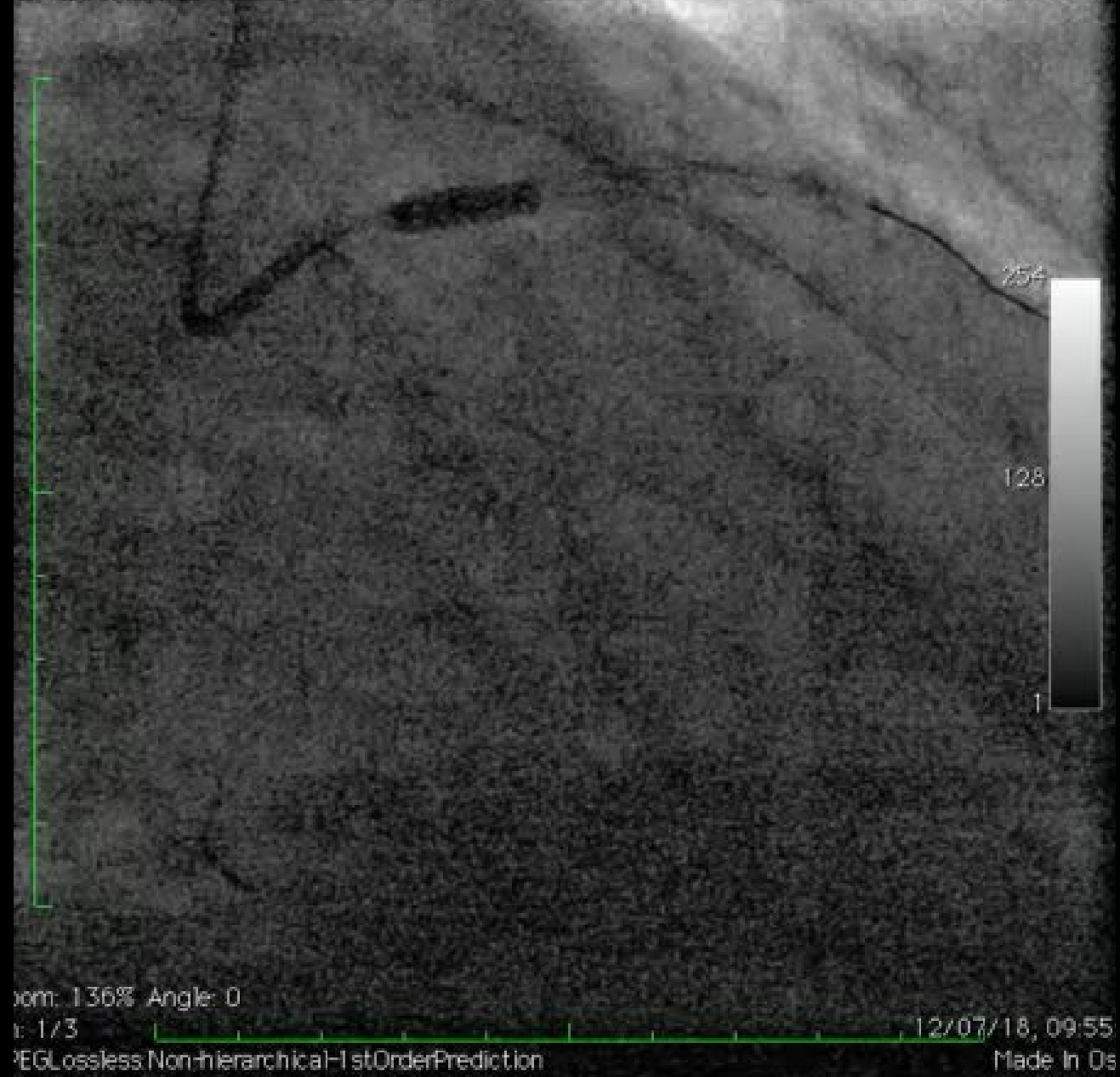
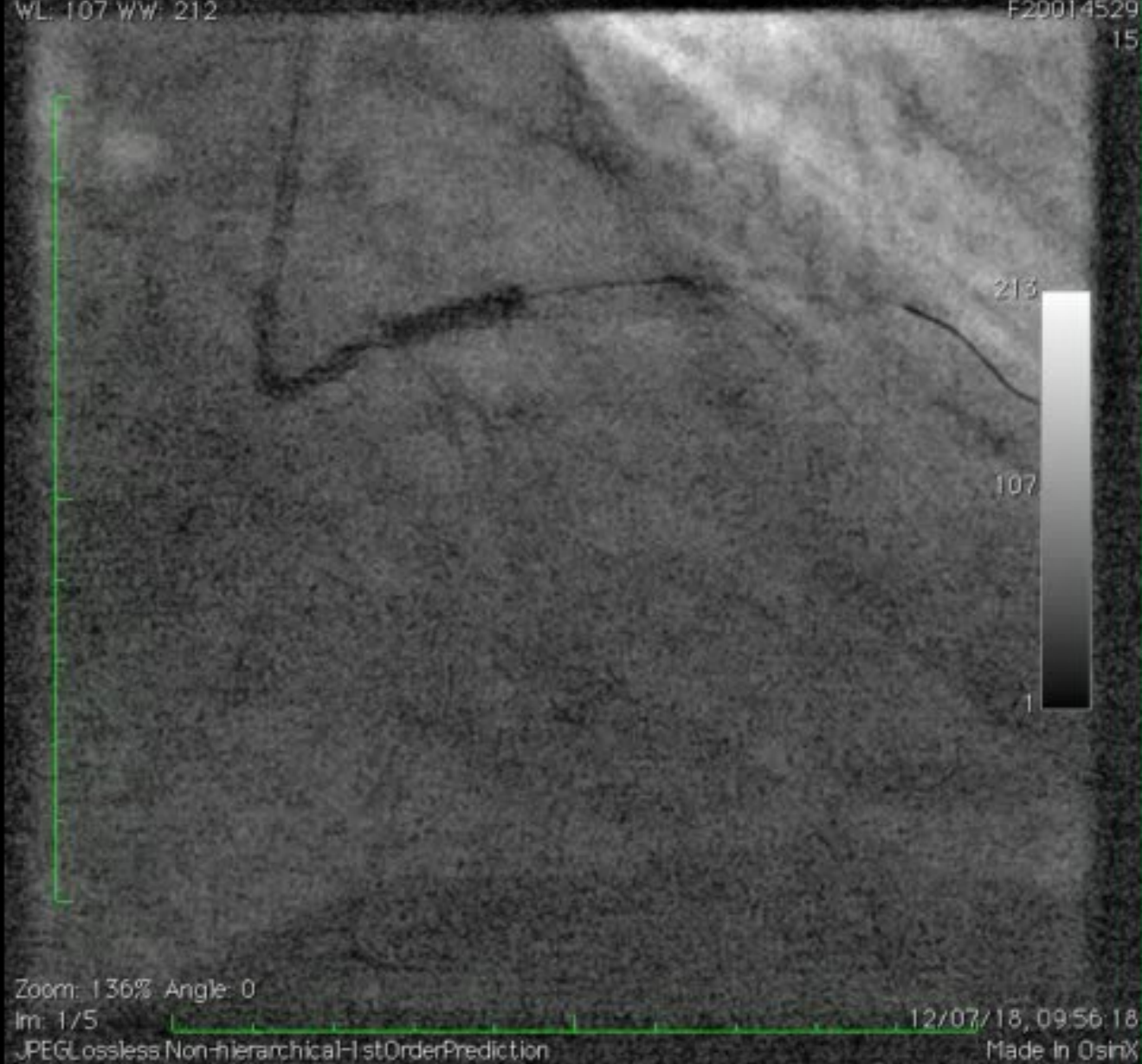


Image size: 512 x 512
View size: 695 x 695
WL: 107 WW: 212

352477 (69 y, 68 y)
Cardiolow(GAGNOR) — unnamed
F20014529
15



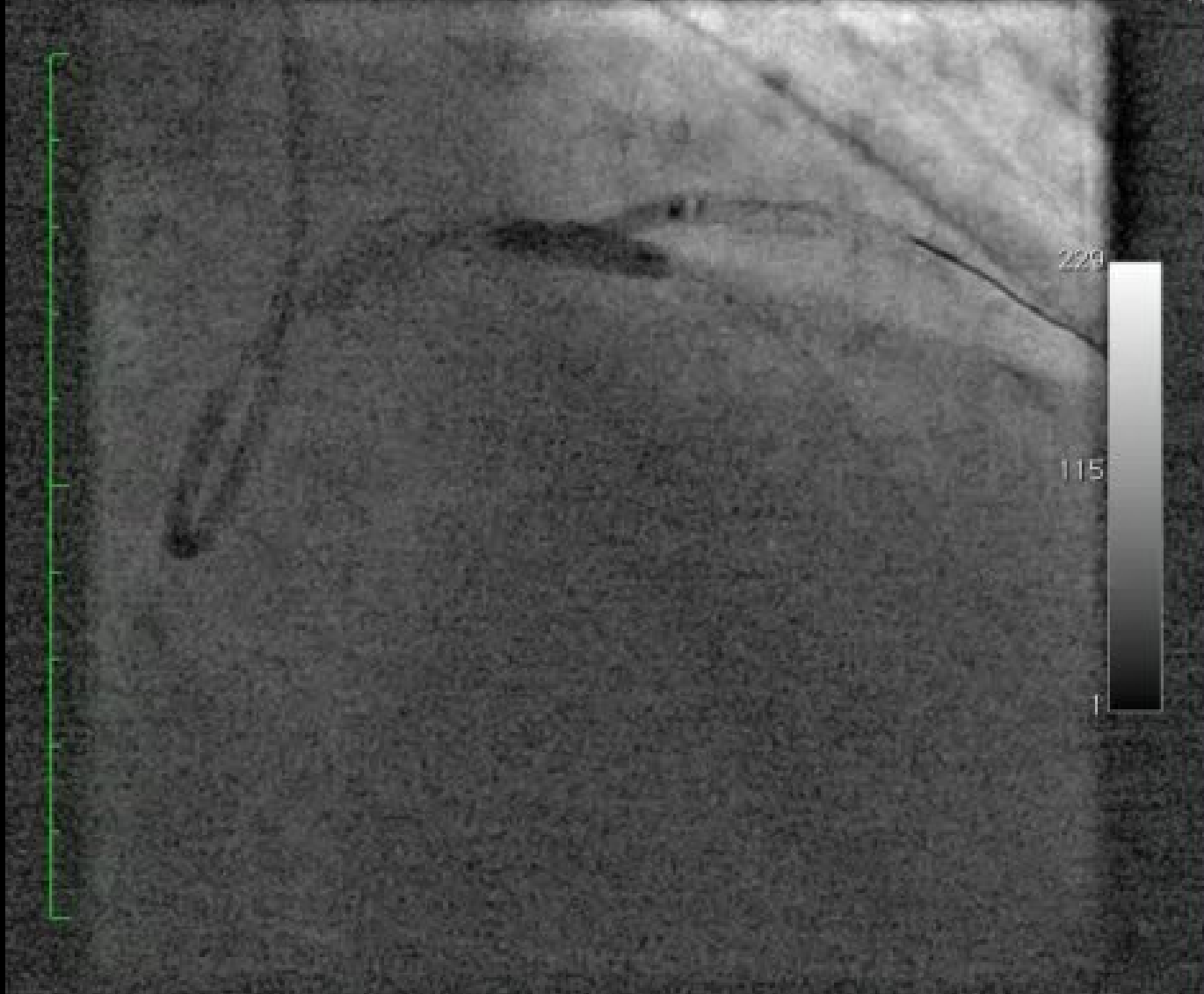


Image size: 512 x 512
View size: 695 x 695
WL: 131 WW: 247

352477 (69 y , 68 y)
CardioKw(GAGIOP) - unnamed
F20014524
13



Image size: 512 x 512
View size: 695 x 695
WL: 129 WW: 251

352477 (69 y, 68 y)
CardioKwd(GAB10R) - unname
F2601452
2



Zoom: 136% Angle: 0

Im: 1/17 12/07/18, 09:59:3

JPEGLossless Non-hierarchical-I stOrderPrediction

Made in Osh

Image size: 512 x 512
View size: 695 x 695
WL: 127 WW: 252

352477 (69 y , 68 y)
Cardioblow (GAGNOR) — unnamed
F20014529
21

253

127

1

Zoom: 136% Angle: 0

Im: 1/10

12/07/18, 10:00:32

JPEGLossless Non-hierarchical-1stOrderPrediction

Made In Osirix

Image size: 512 x 512
View size: 695 x 695
WL: 128 W/W: 254

352477 (59 y , 68 y)
Cardiolog(GAGNOR) - unname
F2001452
2



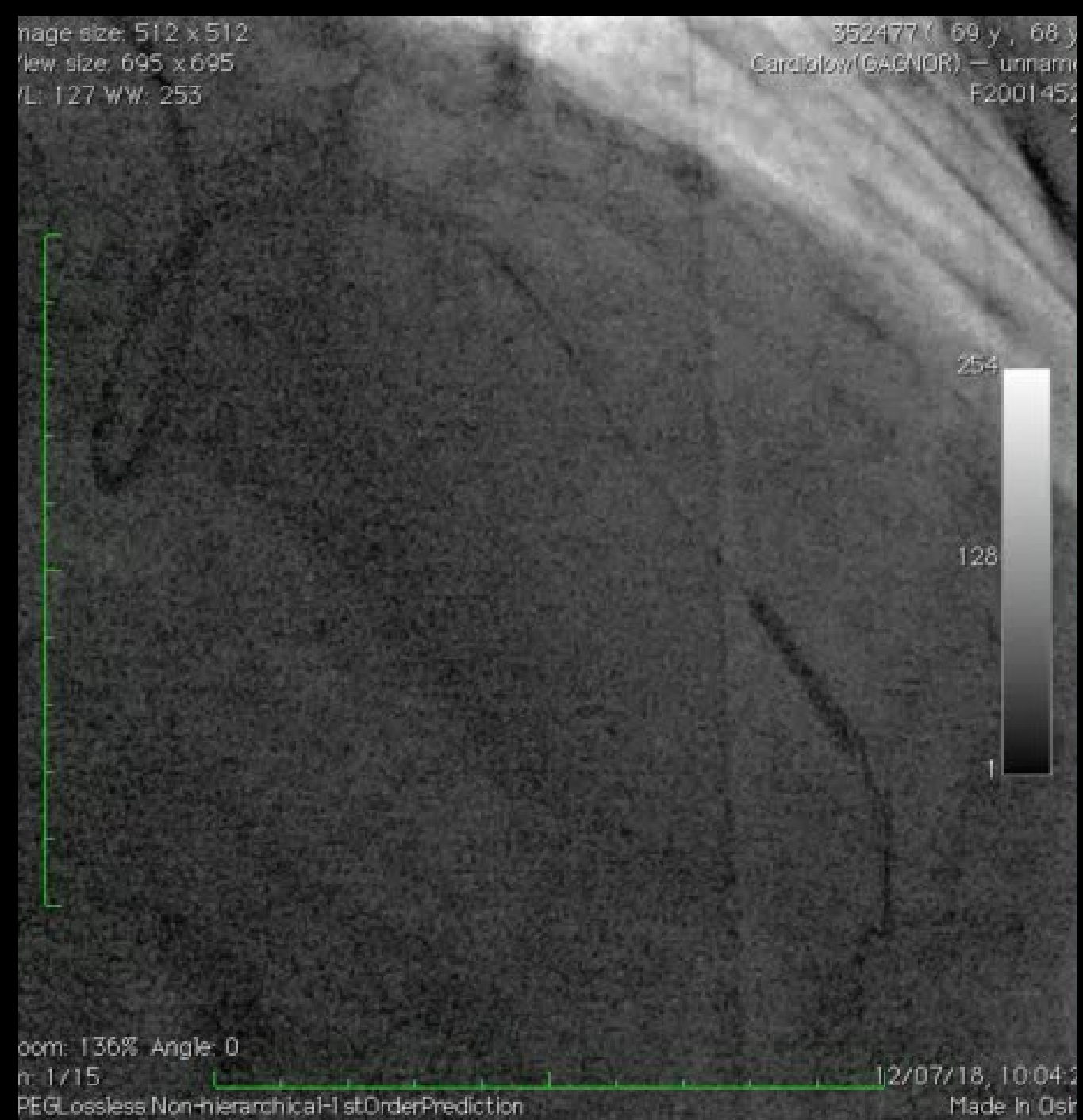


Image size: 512 x 512
View size: 695 x 695
WL: 123 W/W: 245

352477 (69 y, 68 y)
Cardblow (GAGNOR) — unnamed
F20014529
25

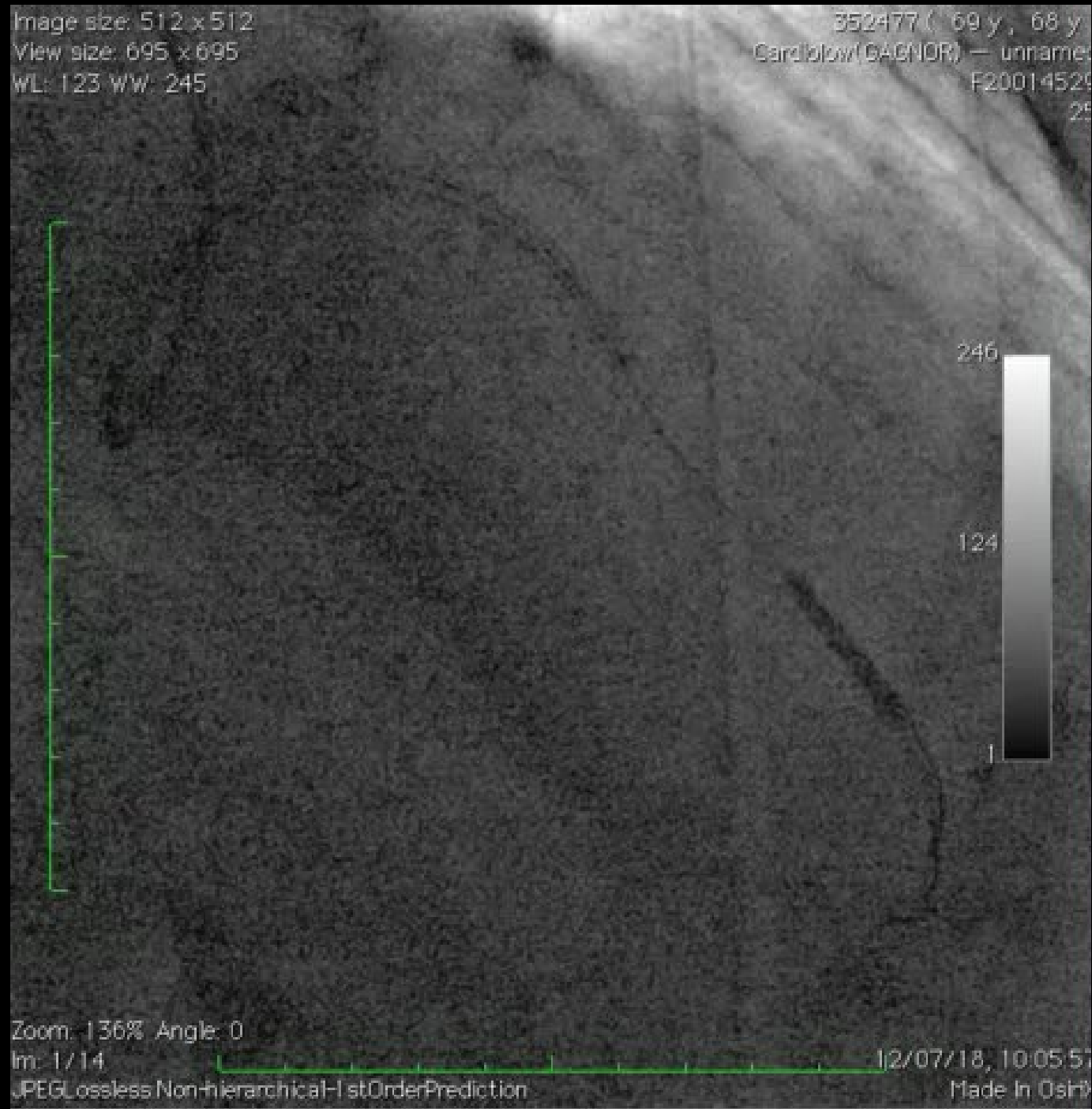


image size: 512 x 512
/lew size: 695 x 695
YL: 124 WW: 247

352477 (59 y , 68 y)
Cardiologw(GACNOR) — unname
F2001452
21



Zoom: 136% Angle: 0

m: 1/19

11/2/07/18, 10:06:01

PEGLossless Non-hierarchical-HistOrderPrediction

Made In Osir

Image size: 512 x 512
View size: 695 x 695
WL: 129 W/W: 252

352477 (69 y, 68 y)
Cardiolow(GAGNOR) - unnamed
F20014529
29



image size: 512 x 512
view size: 695 x 695
VL: 128 WW: 254

352477 (6
Cardioblow (GAGNOR)



Zoom: 136% Angle: 0

m: 1/21

PEGLosslessNonHierarchical1stOrderPrediction

12/97/1

11

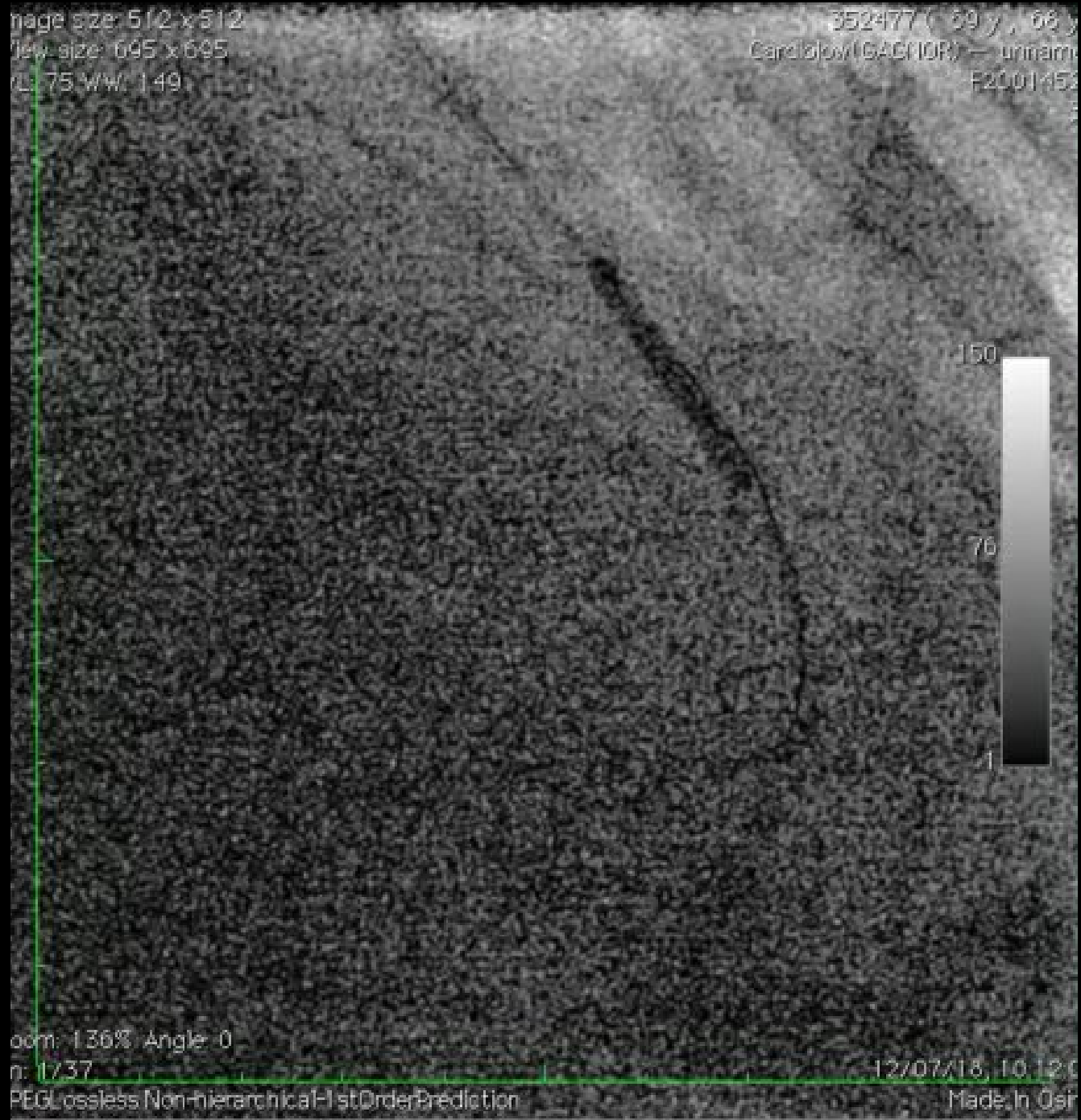
Image size: 512 x 512
View size: 695 x 695
L: 128 W/W: 254

352477 (69 y , 68 y
Cardioblow(GAGNOR) — username
F2001452
3



page size: 512 x 512
raw size: 645 x 645
L: 75 Ww: 149

352477 (59 y , 68 y)
Cardiolow (GAC10P) - unnam
F2001453



oom: 136% Angle: 0

n: 1737

PEGLossless Non-hierarchical-1stOrderPrediction

12/07/18, 10:12:0

Made in Osir

Image size: 512 x 512
View size: 695 x 695
WL: 128 WW: 254

352477 (69 y , 68 y)
Cardiolow(GAGNOR) — unnamed
F20014529
39



Image size: 512 x 512
View size: 695 x 695
WL: 87 W/W: 172

352477 (59 y, 68 y)
Cardioblow(CACNOR) - unnamed4
F20014529
41



Zoom: 136% Angle: 0

Im: 17/19

JPEG Lossless Non-hierarchical 1st Order Prediction

12/07/18, 10:12:39

Made In OshX

Image size: 512 x 512
View size: 645 x 645
WL: 128 W/H: 253

352477 (69 y , 68 y)
Cardiolog(GA610R) - unnamed
F20014529
44



Zoom: 136% Angle: 0

Im: 1/50

uPGLosslessNonHierarchicalHstOrderPrediction

12/07/18, 10:13:18

Made In GSHX

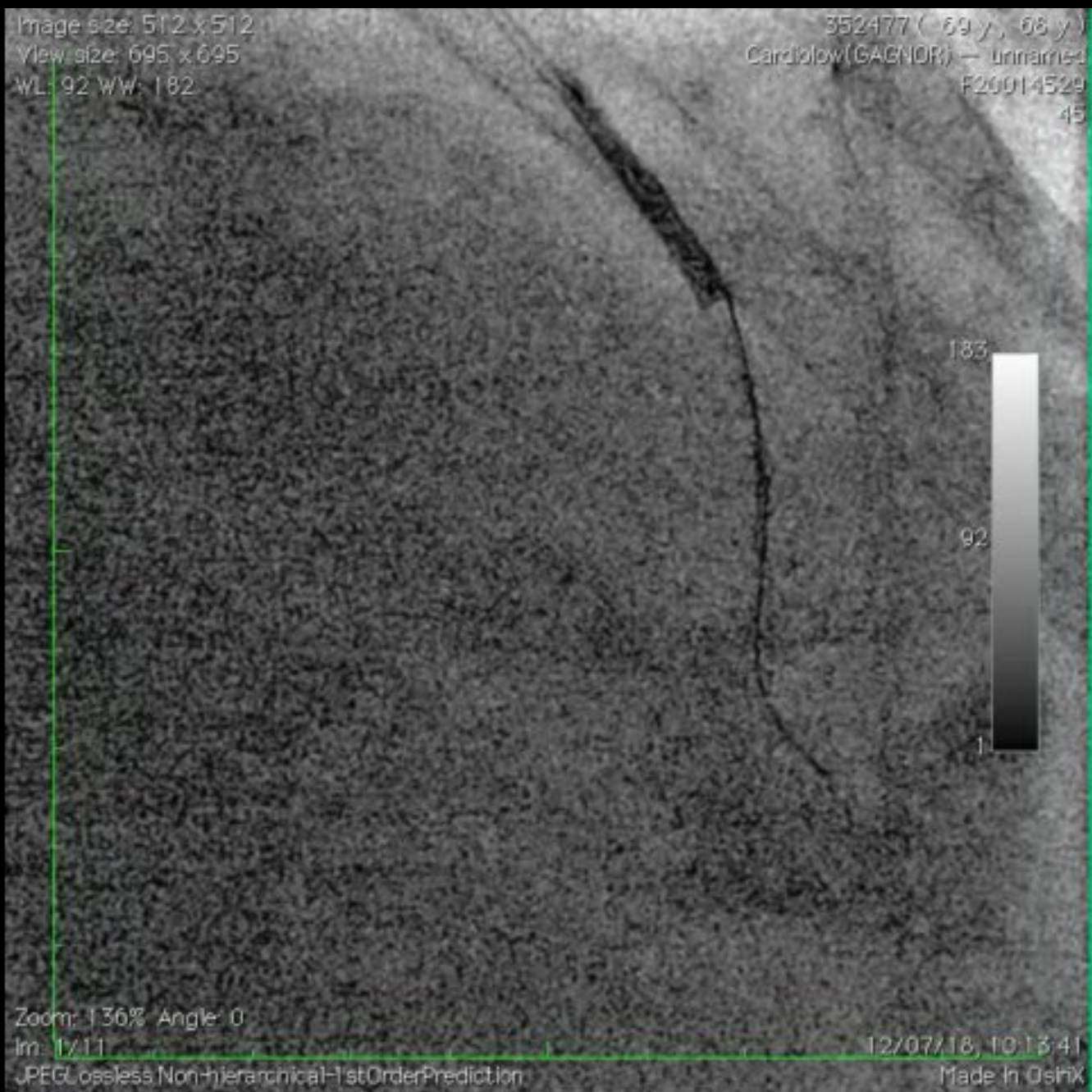
Image size: 512 x 512
View size: 695 x 695
WL: 128 WWH: 254
352477 (69 y, 68 y)
Cardiolog(GAGNOR) - unname
F2001452
43



Image size: 512 x 512
View size: 695 x 695
WL: 92 W/W: 182

352477 (69 y, 68 y)
CardiFlow(GAGNOR) — unnamed1
F20014529
45

183
92
1



Zoom: 136% Angle: 0

In: 1/11

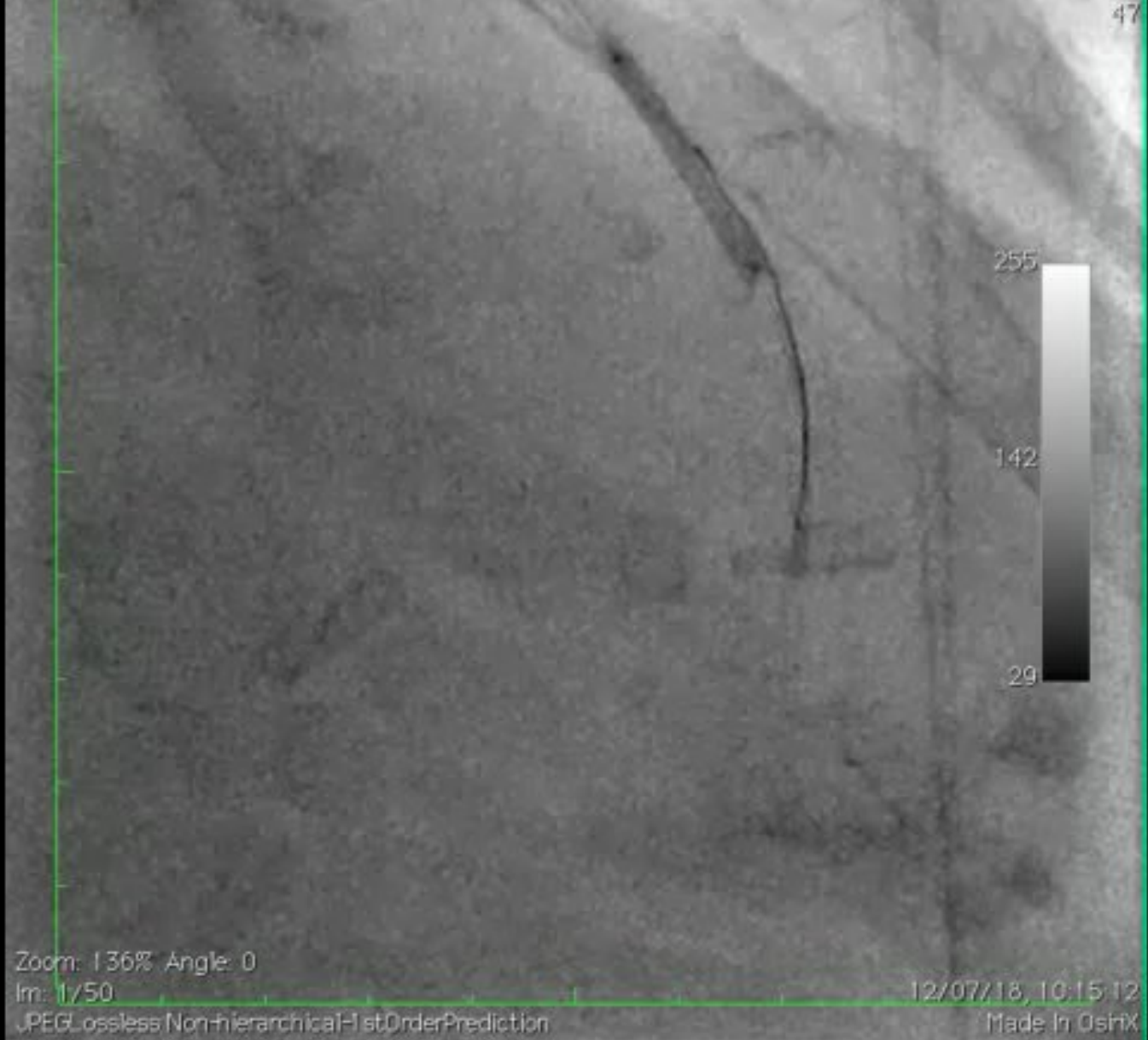
12/07/18, 10:13:41

JPEG Lossless Non-hierarchical 1st Order Prediction

Made In Osirix

Image size: 512 x 512
View size: 695 x 695
WL: 142 WW: 226

352477 (69 y , 68 y)
Cardioblow(GAGNOR) - unnamed
F20014529
47



Zoom: 136% Angle: 0
Im: 1/50

12/07/18, 10:15:12

JPEGLosslessNon-hierarchical1stOrderPrediction

Made In OshX

Image size: 512 x 512
View size: 695 x 695
WL: 143 WW: 224

352477 (69 y , 68 y)
CardiFlow(GAENOR) - unnamed
F20014529
49

255

143

31

Zoom: 136% Angle: 0

Im: 1/50

PEGLossless Non-hierarchical-1stOrderPrediction

12/07/18, 10:16:04

Made In OshX

Image size: 512 x 512
View size: 695 x 695
WL: 128 W/W: 254

352477 (69 y , 68 y)
Cardiolog(GAGNOR) - unnamed
F20014529
76



Zoom: 136% Angle: 0

Im: 1/18

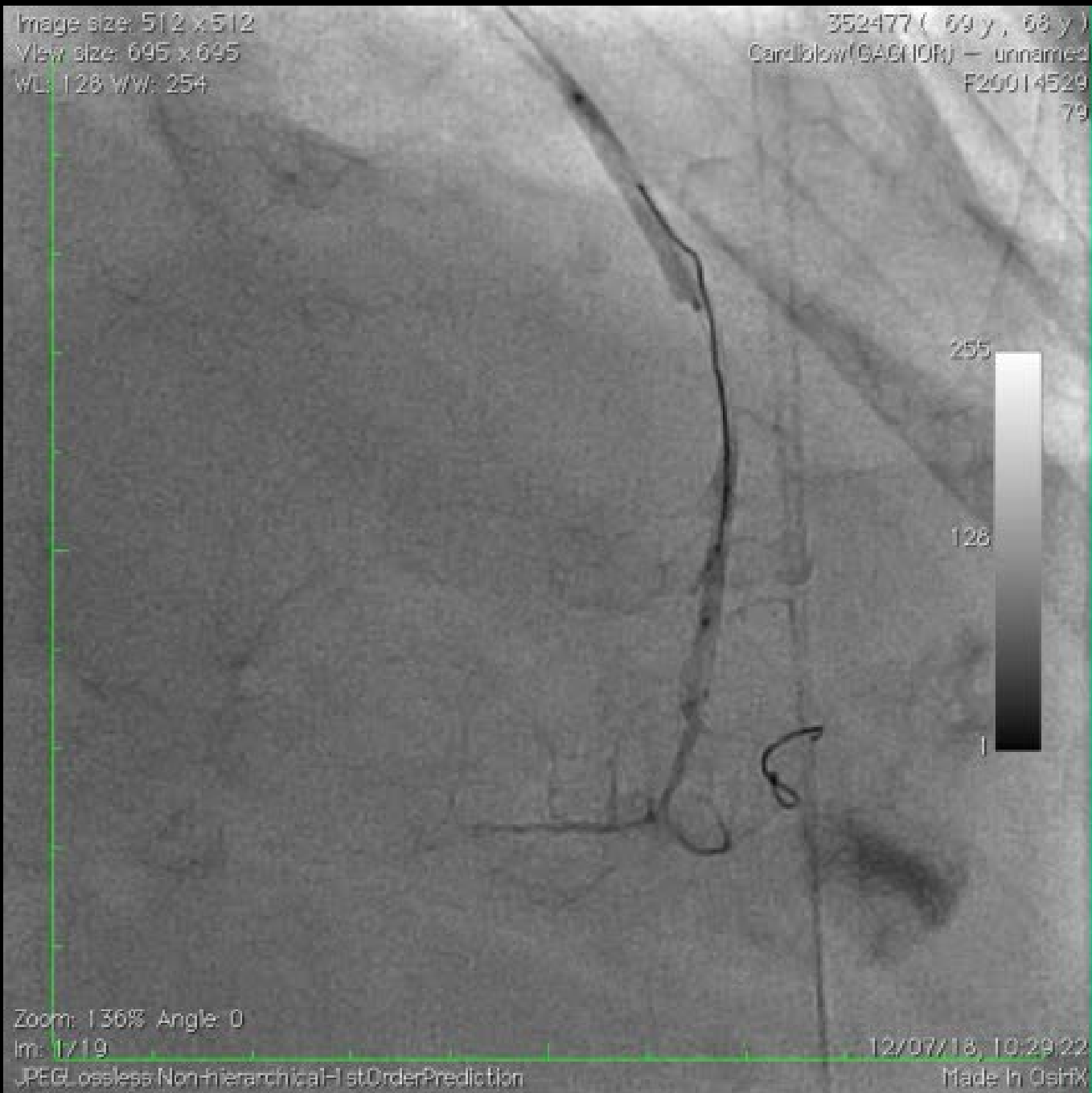
JPEG Lossless Non-hierarchical 1st Order Prediction

12/07/18, 10:25:51

Made In Osirix

Image size: 512 x 512
View size: 695 x 695
WL: 128 WW: 254

352477 (69 y , 68 y)
Cardiolog(GAGHOP) - unnamed4
F24014529
79



Zoom: 136% Angle: 0

Im: 17/19

JPEG Lossless Non-hierarchical-HistOrderPrediction

12/07/18, 10:29:22

Made In Osirix

Image size: 512 x 512
View size: 695 x 695
WL: 128 WW: 254

352477 (69 y , 68 y)
Cardiolow(GA6(FOR) - unnamed
F20014529
83

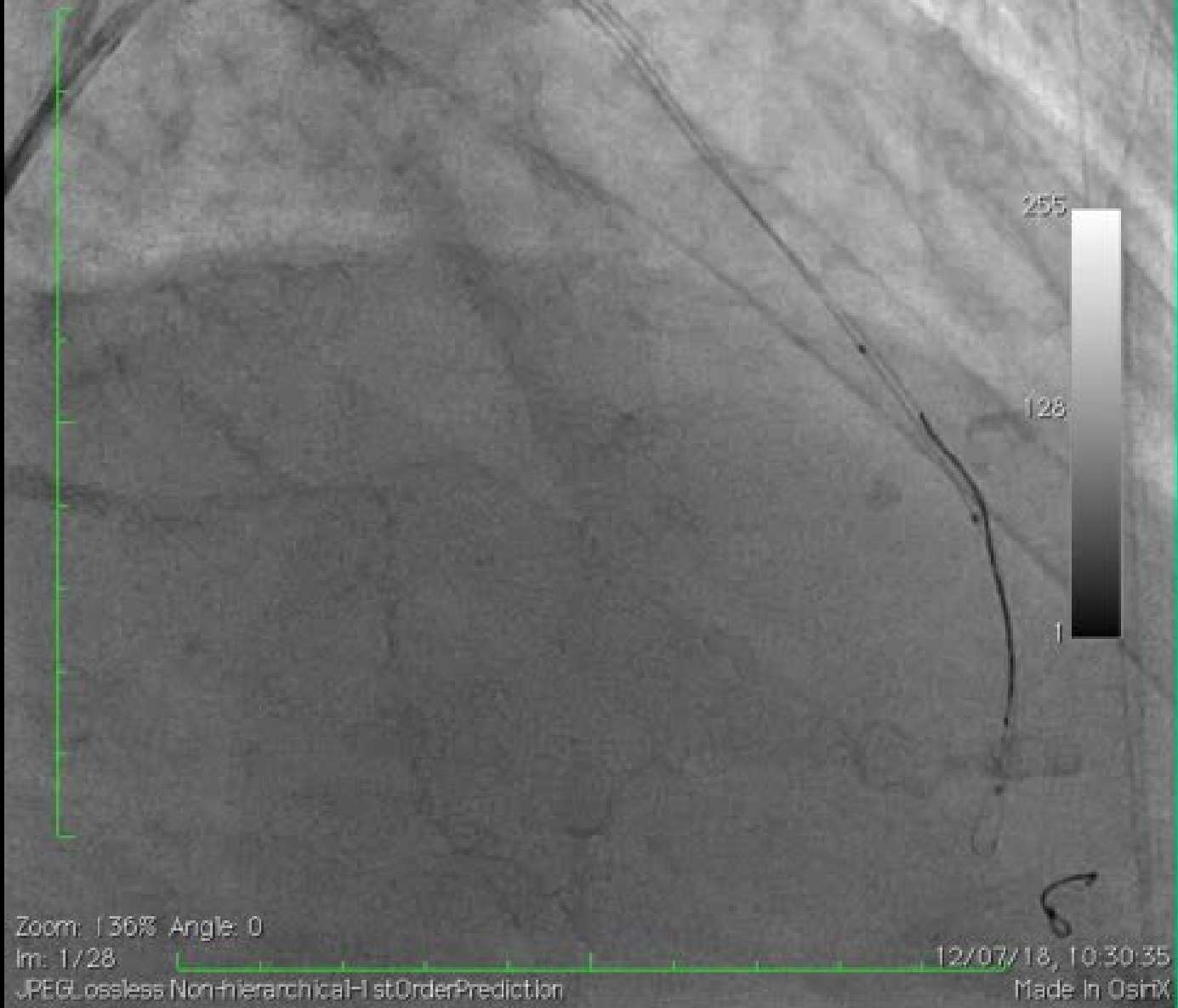




image size: 512 x 512
View size: 695 x 695
wL: 128 wW: 254

352477 (69 y , 68)
Cardioblow(GA6HOP) - unnamed
F2001452

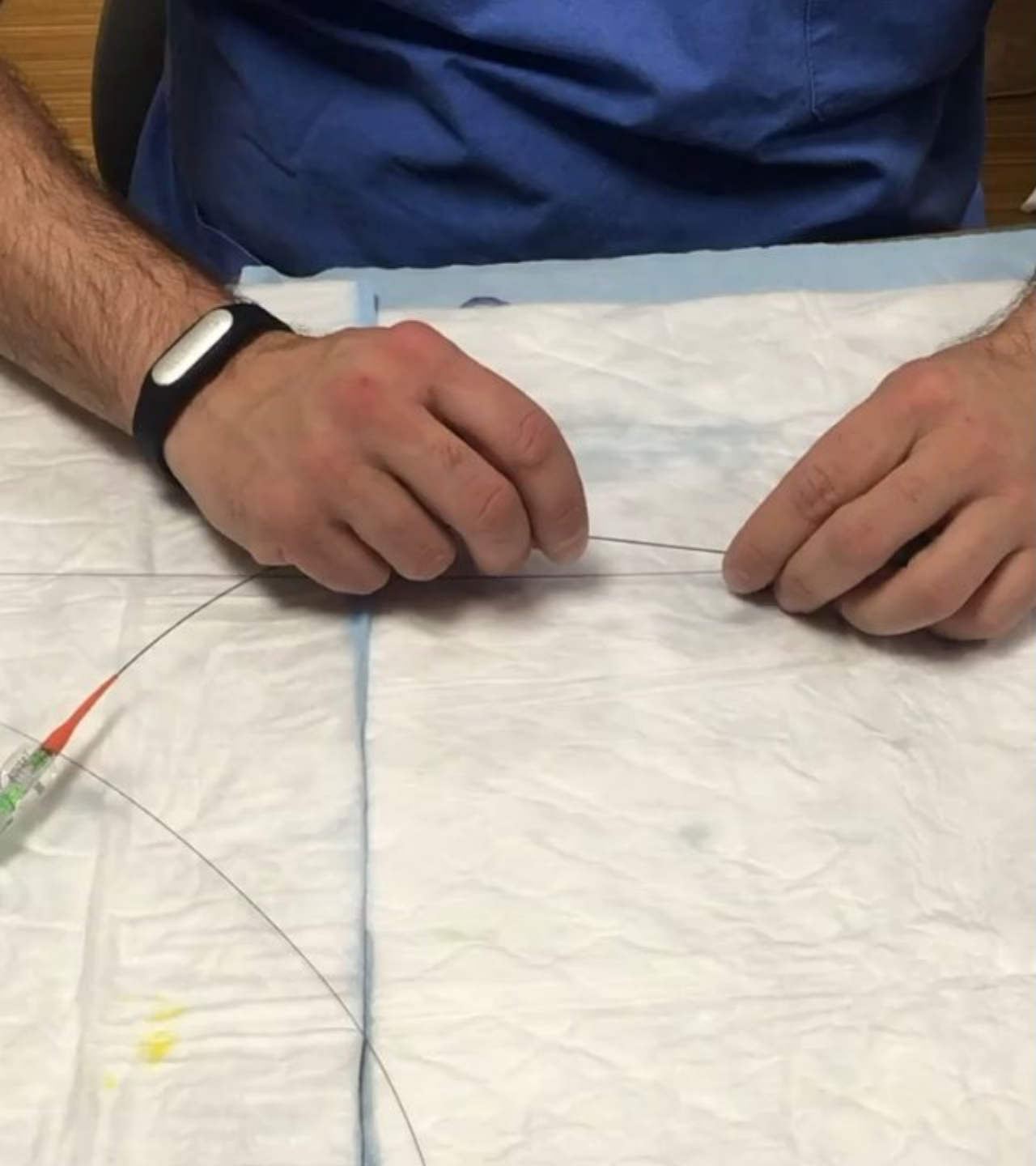


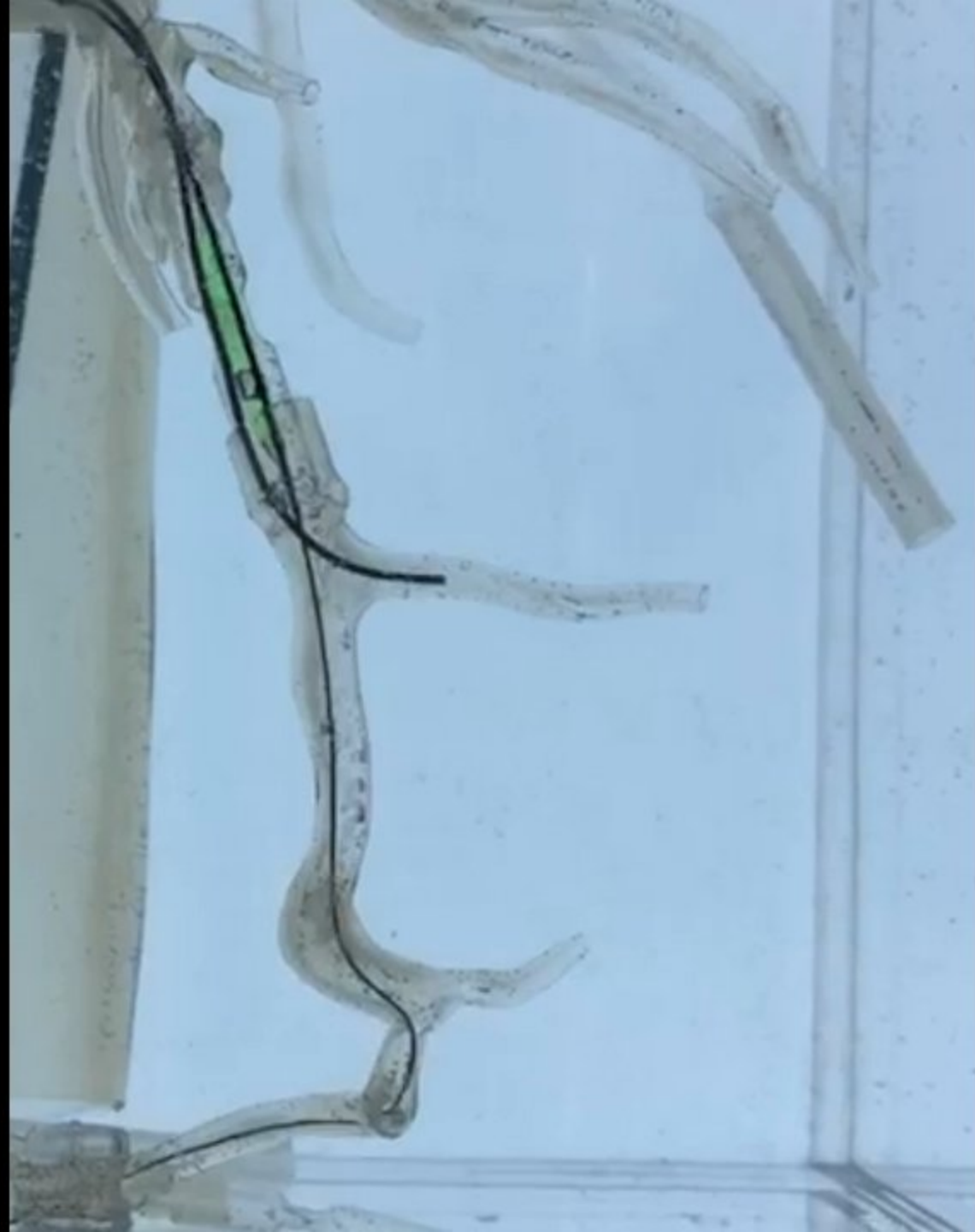
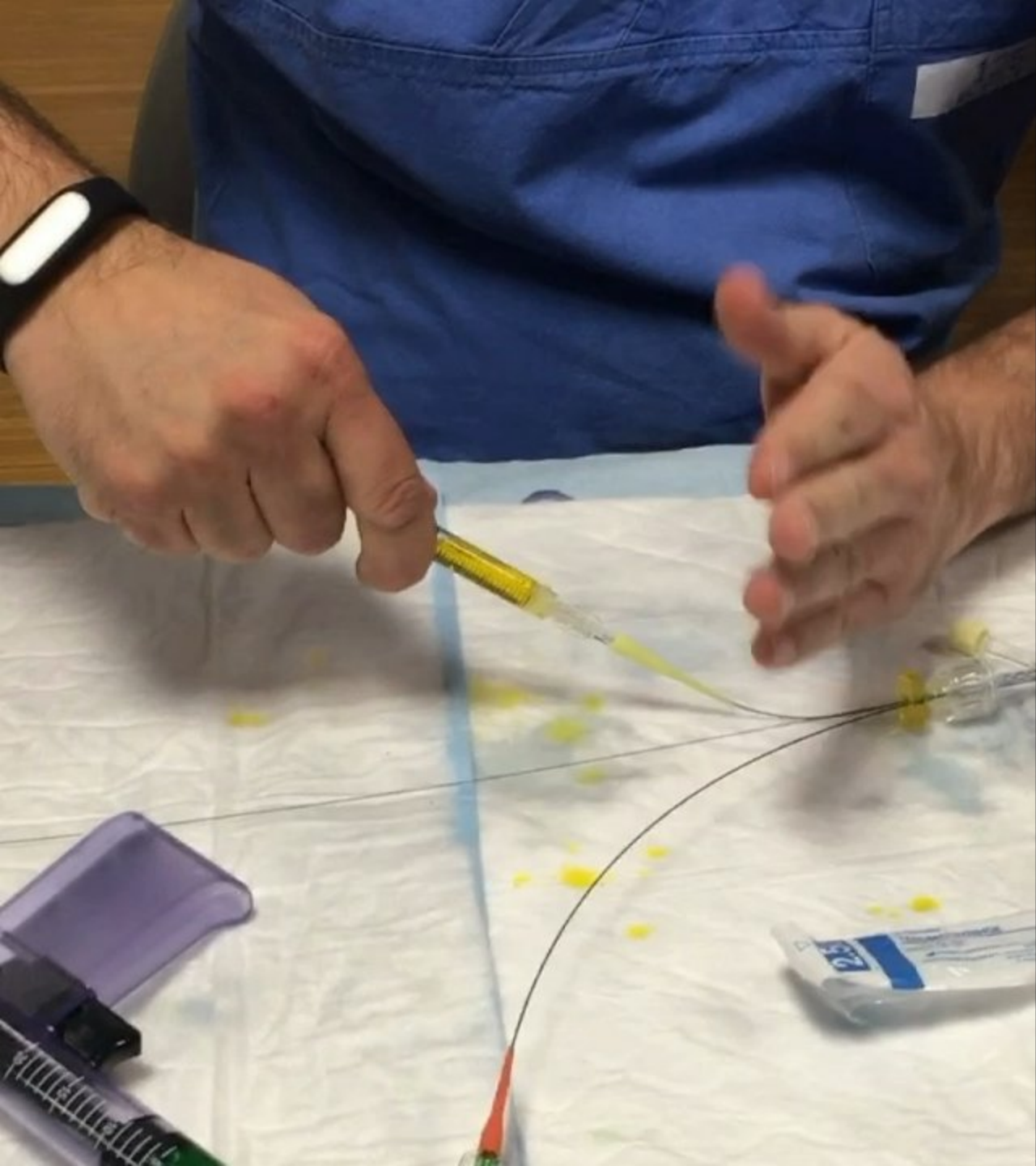
Image size: 512 x 512
View size: 695 x 695
WL: 132 WVR: 246

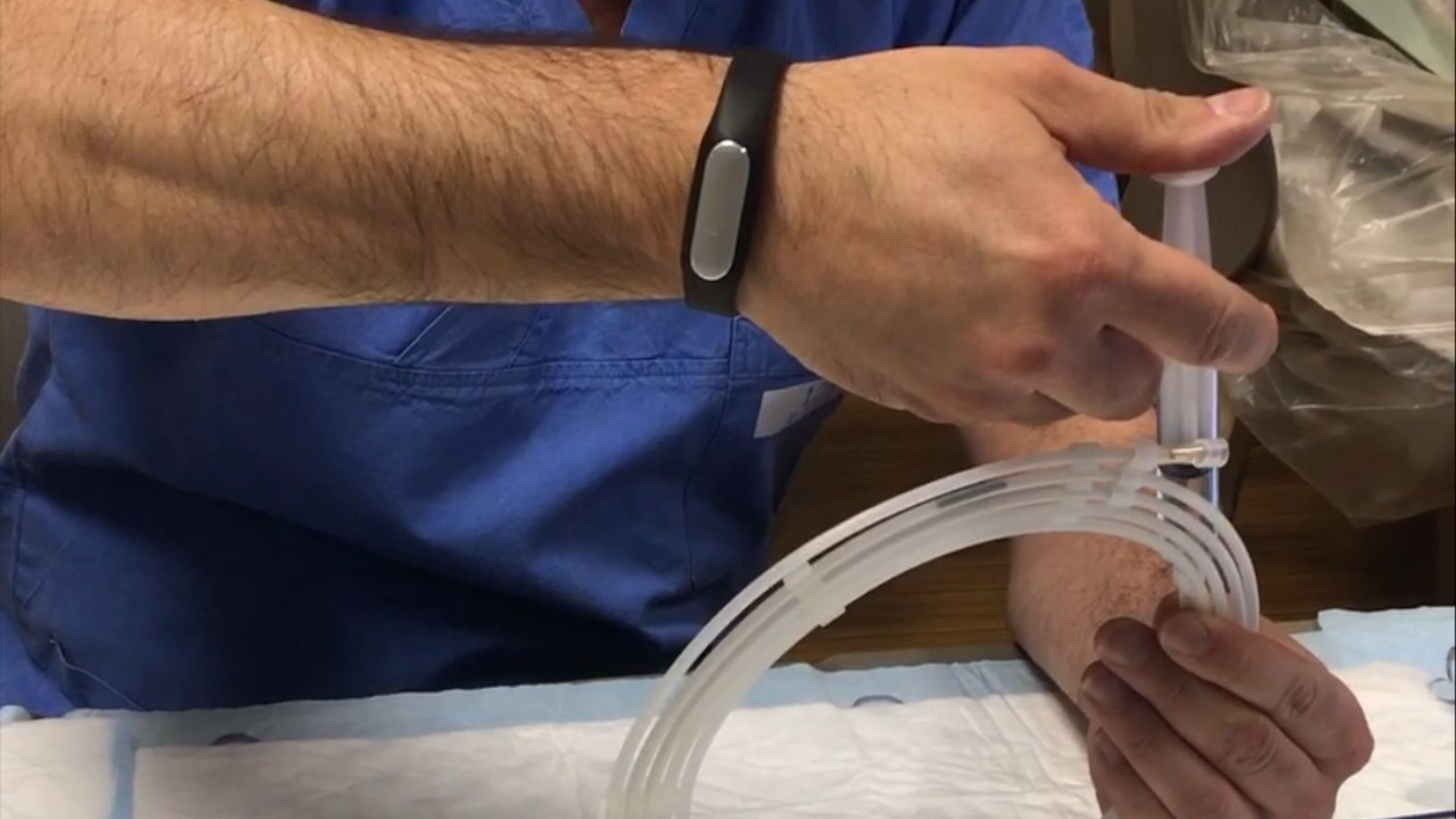
352477 (69 y, 68 y)
Cardiokn - unname
F2029473







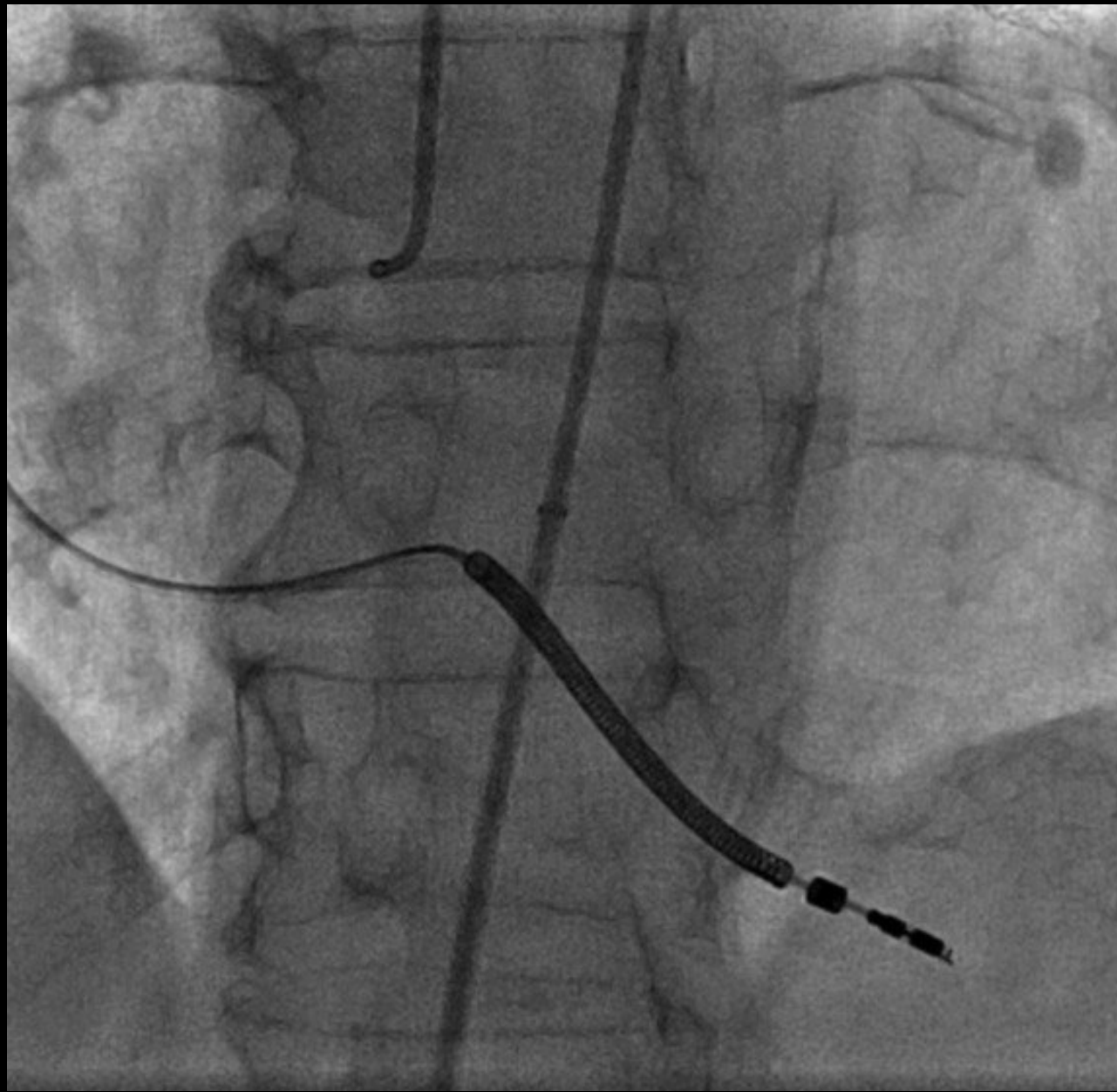


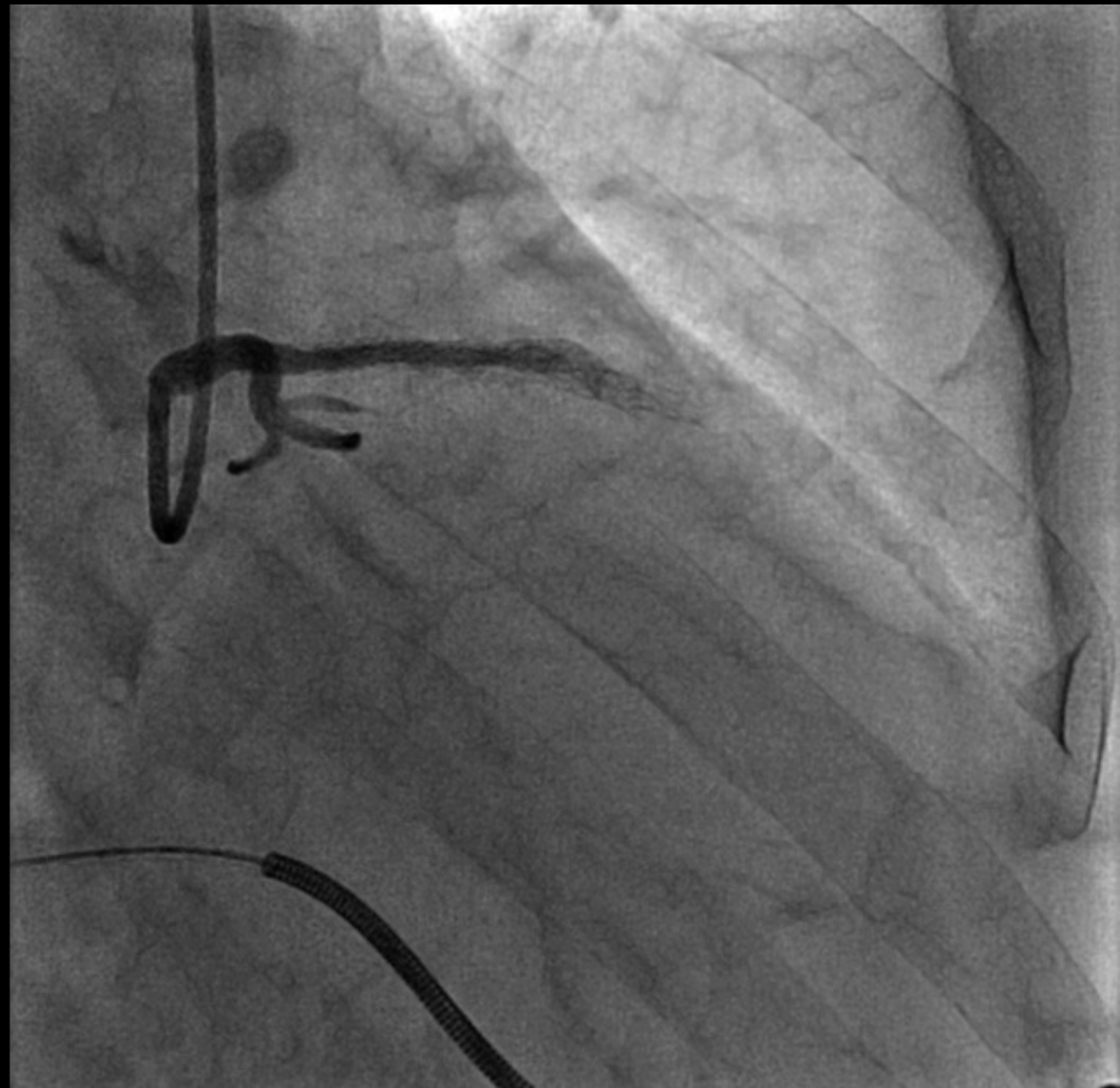
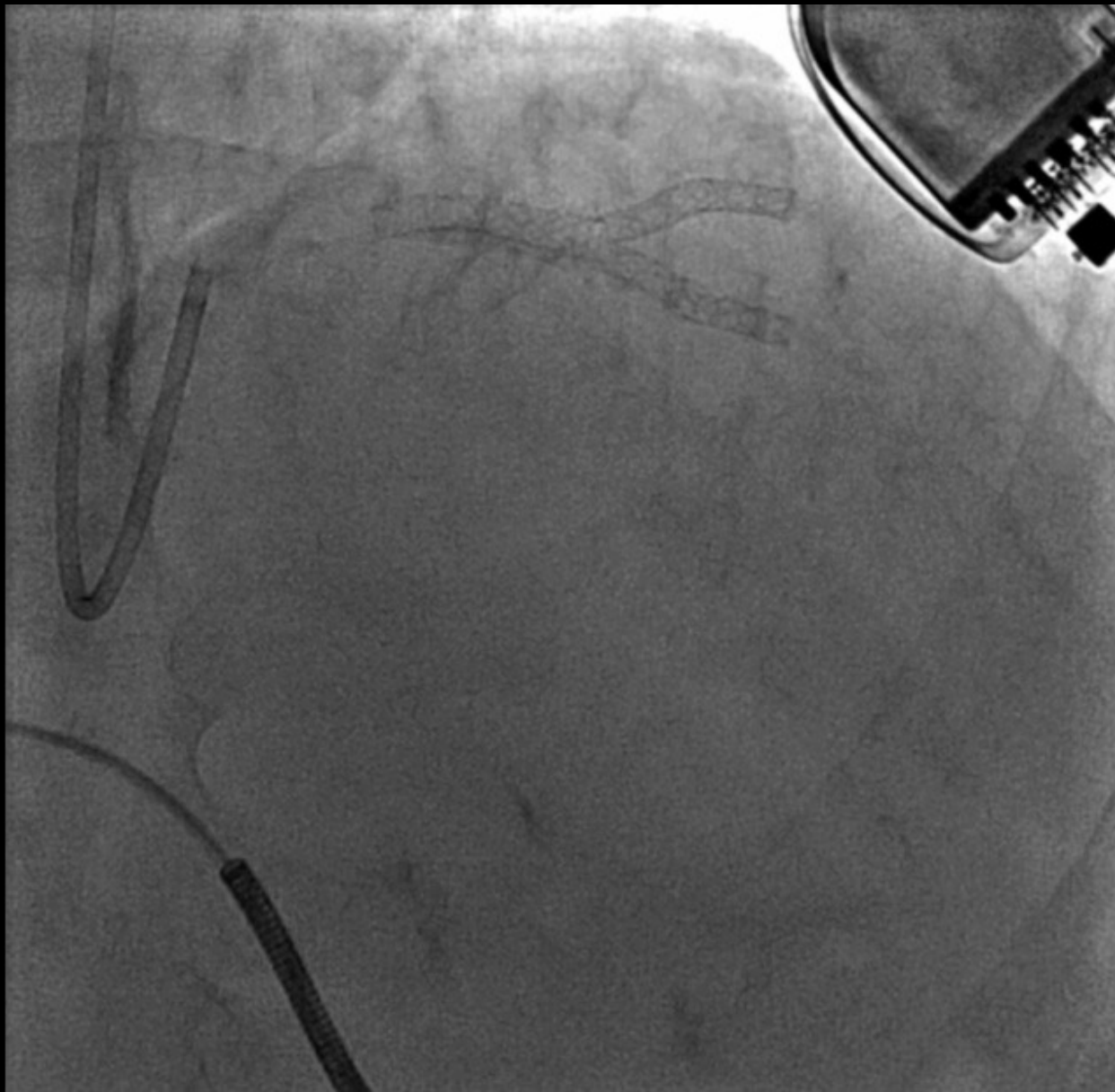


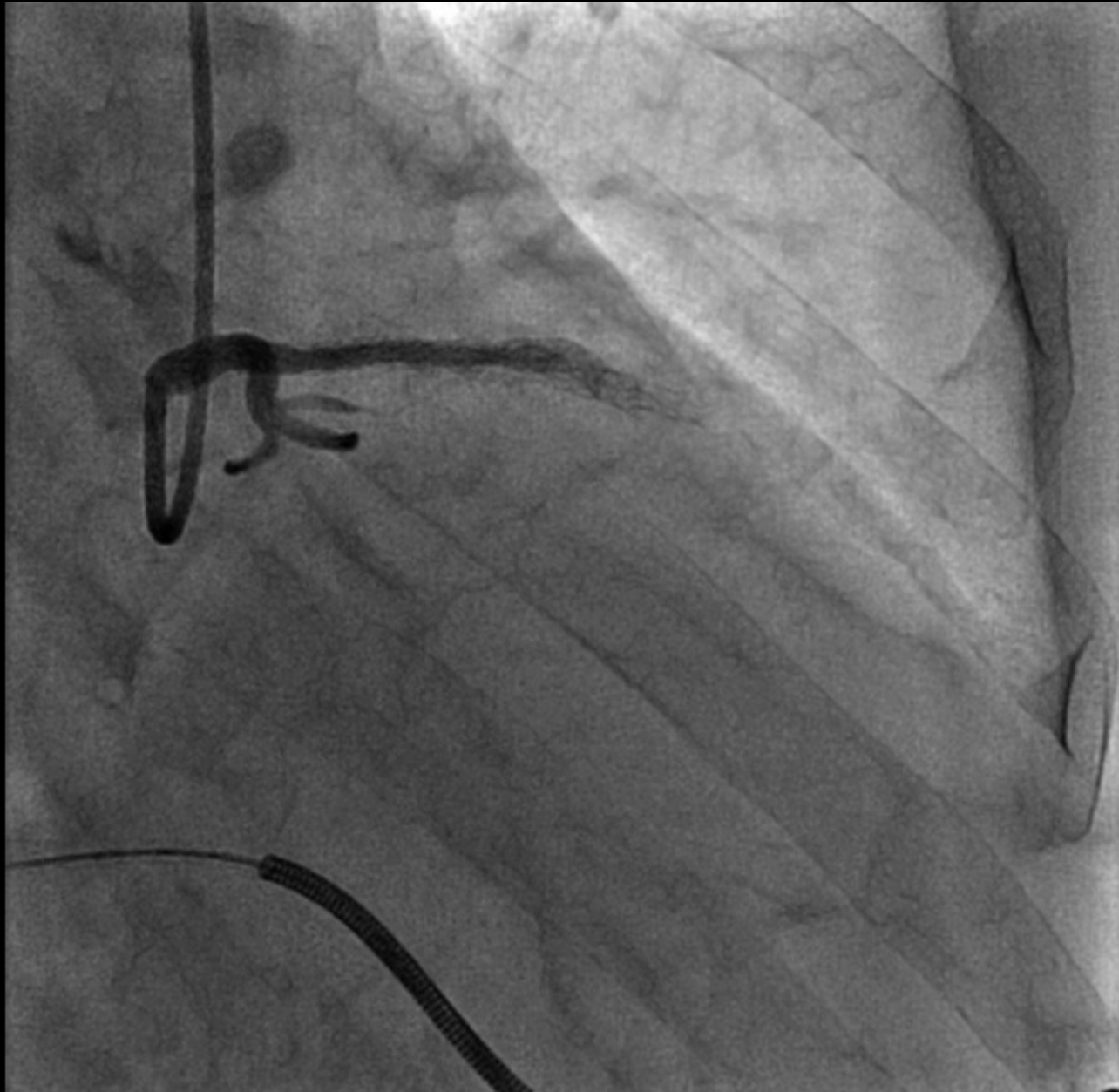
**CORONARY
PERFORATIO
N
SIMULATION
ON
STAGE #2**

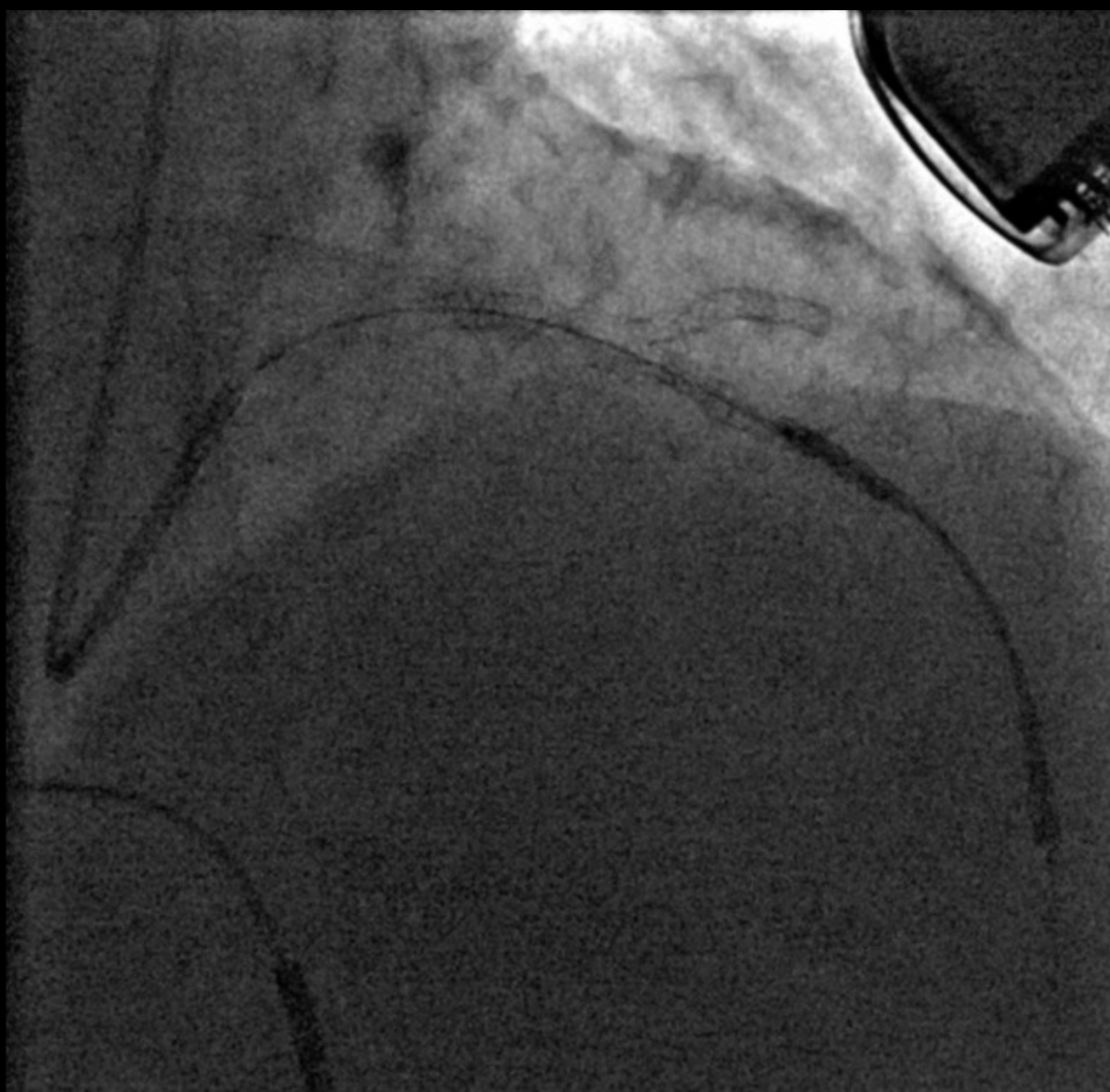
Storia clinica:

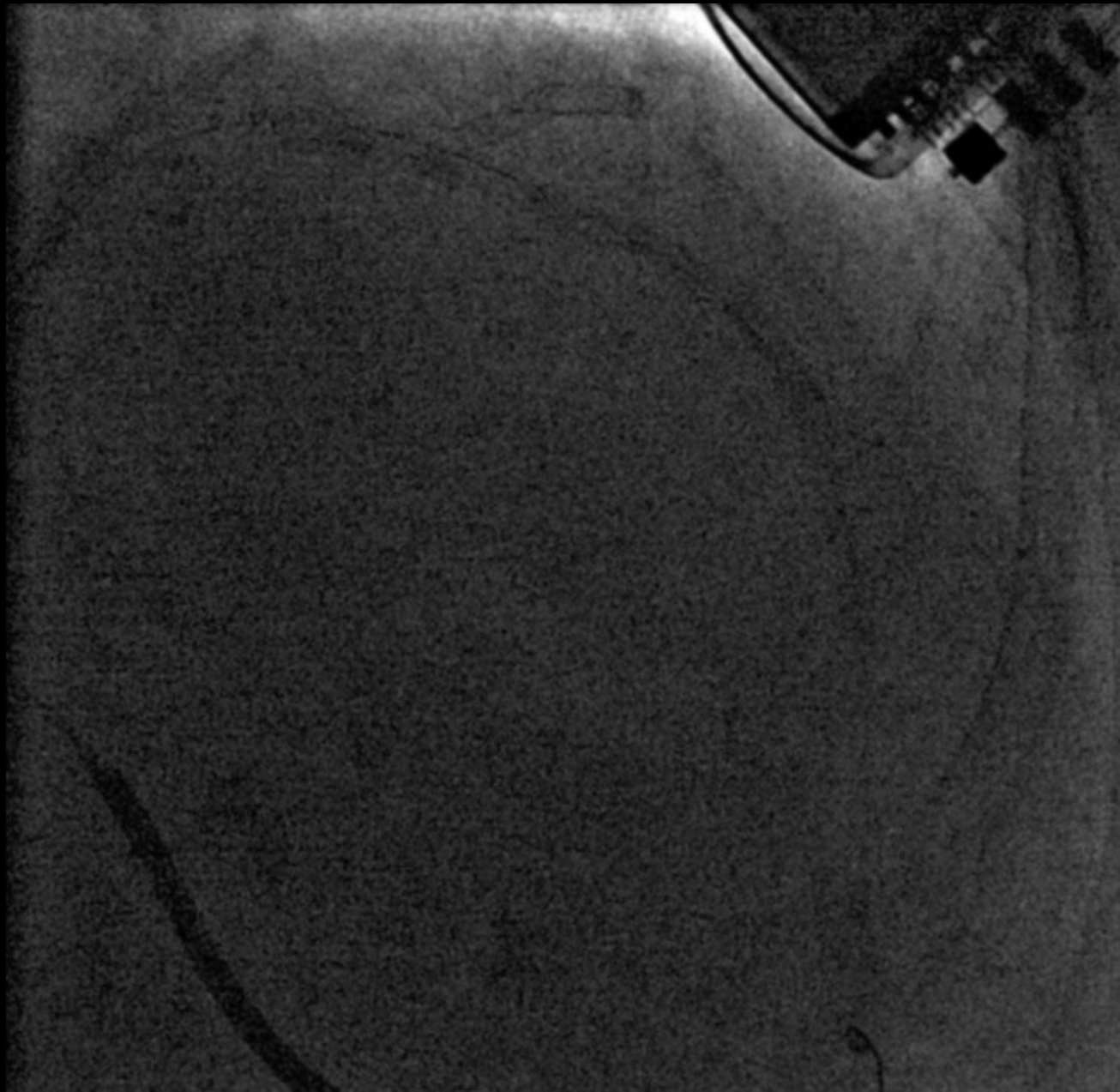
Lesione anteriore con QS V1-V5. D

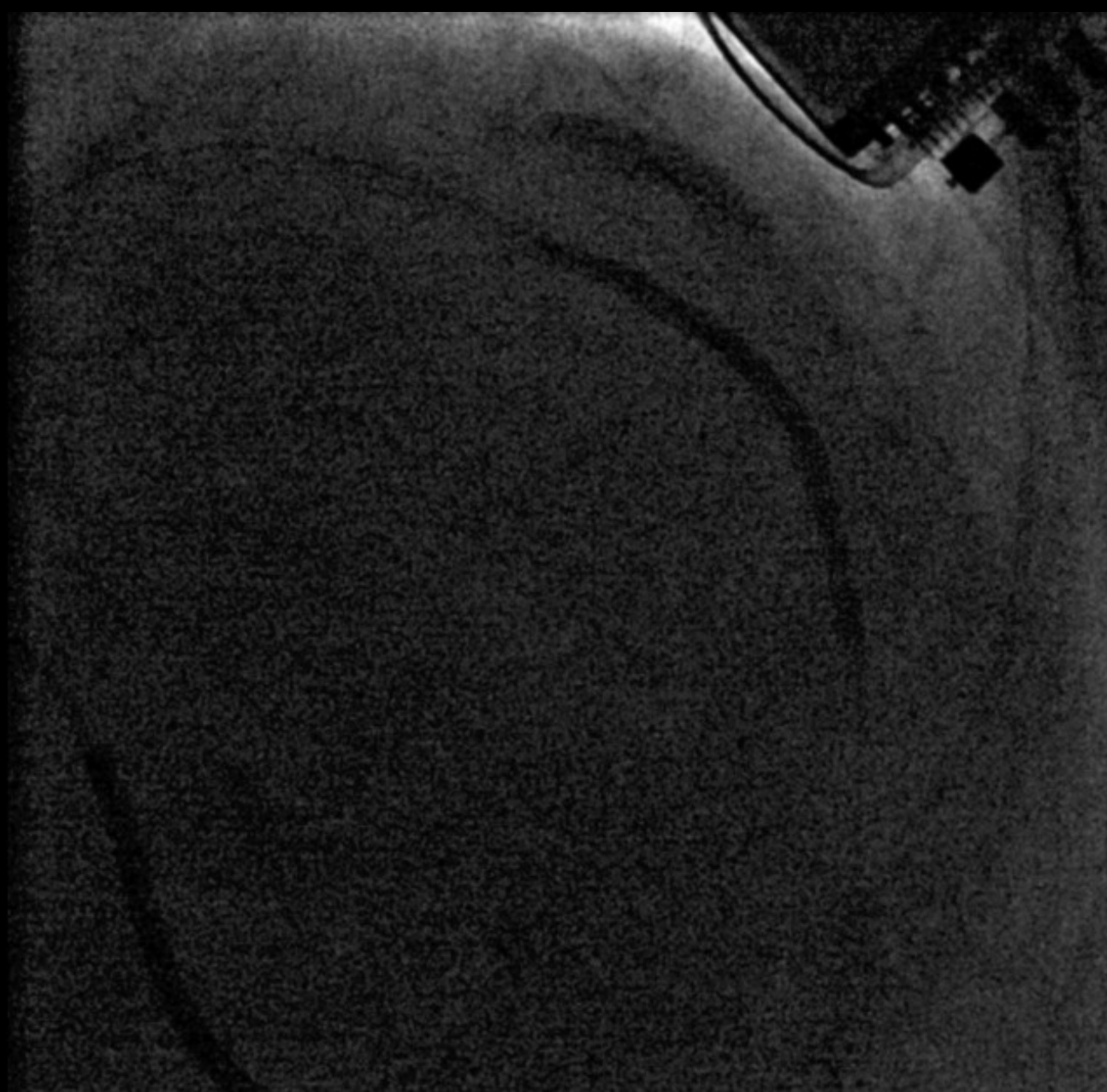


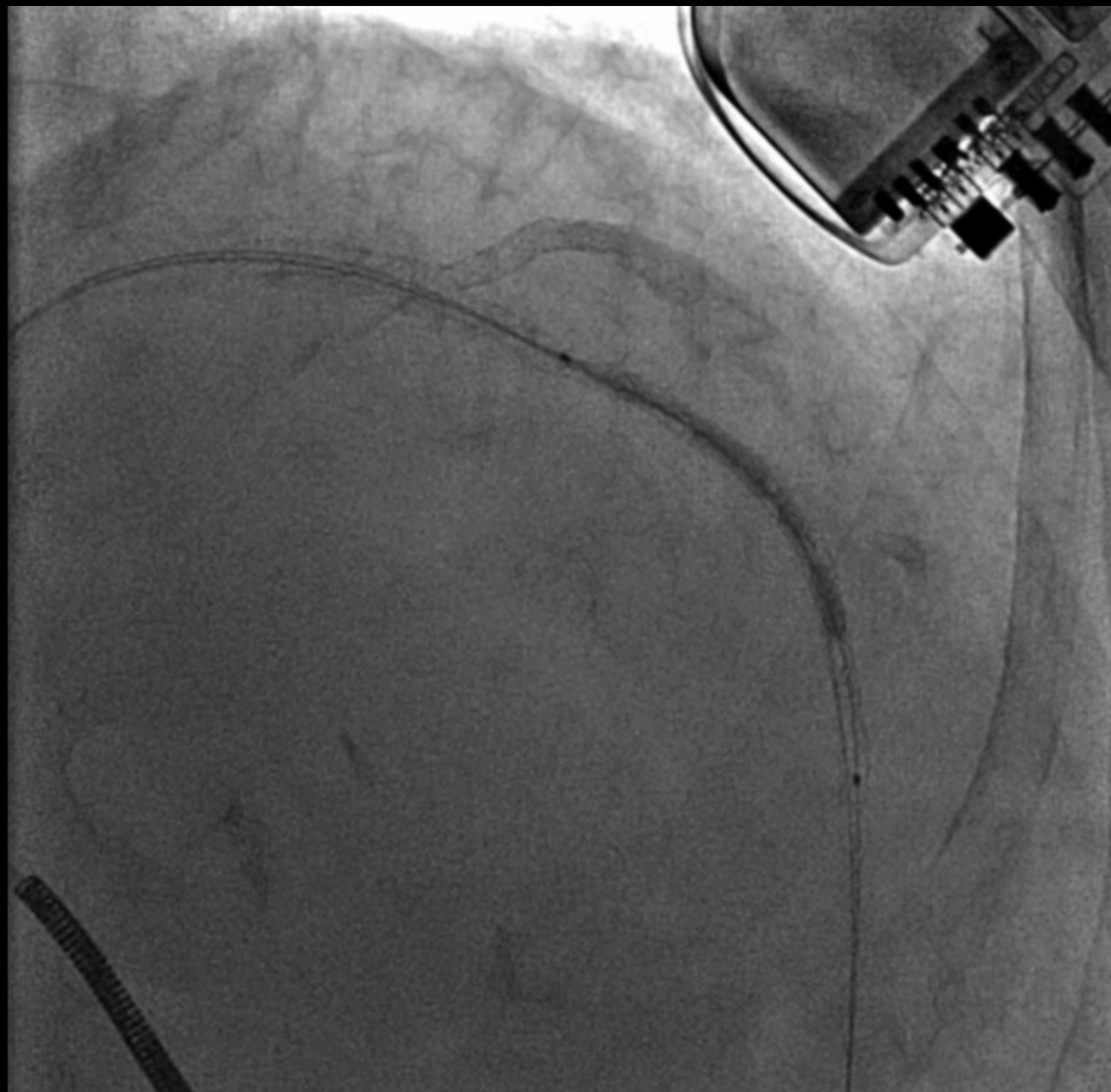


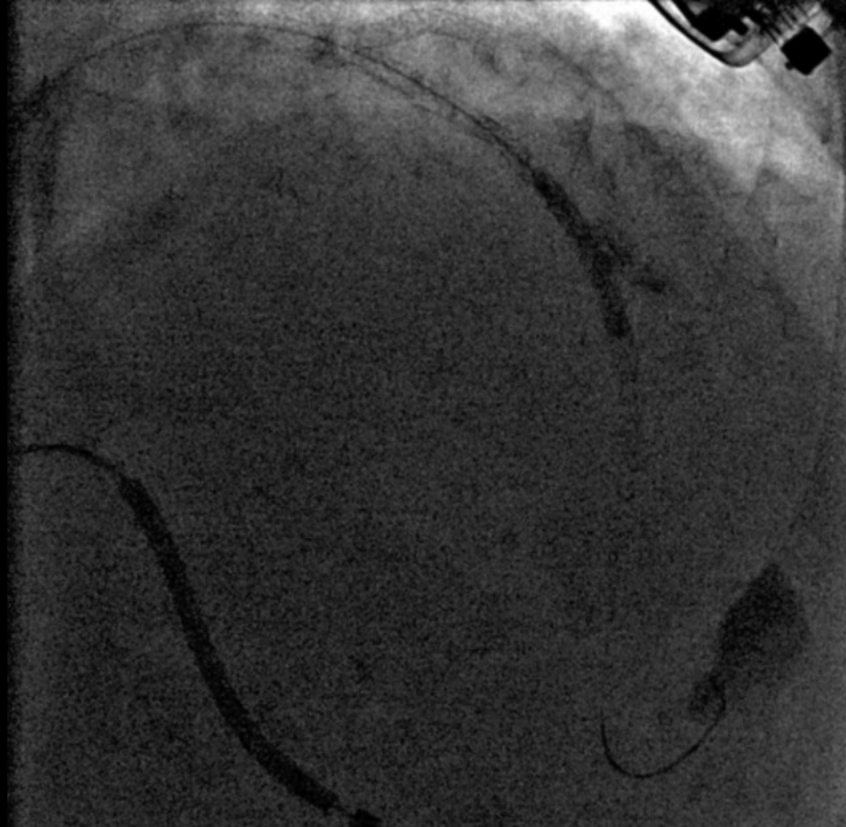


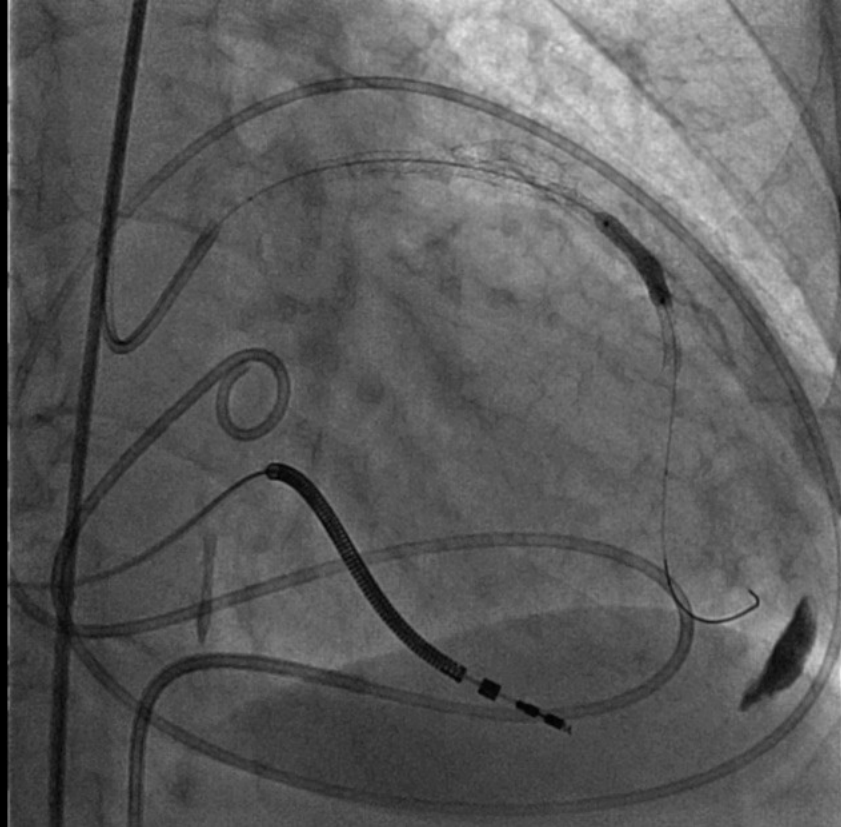






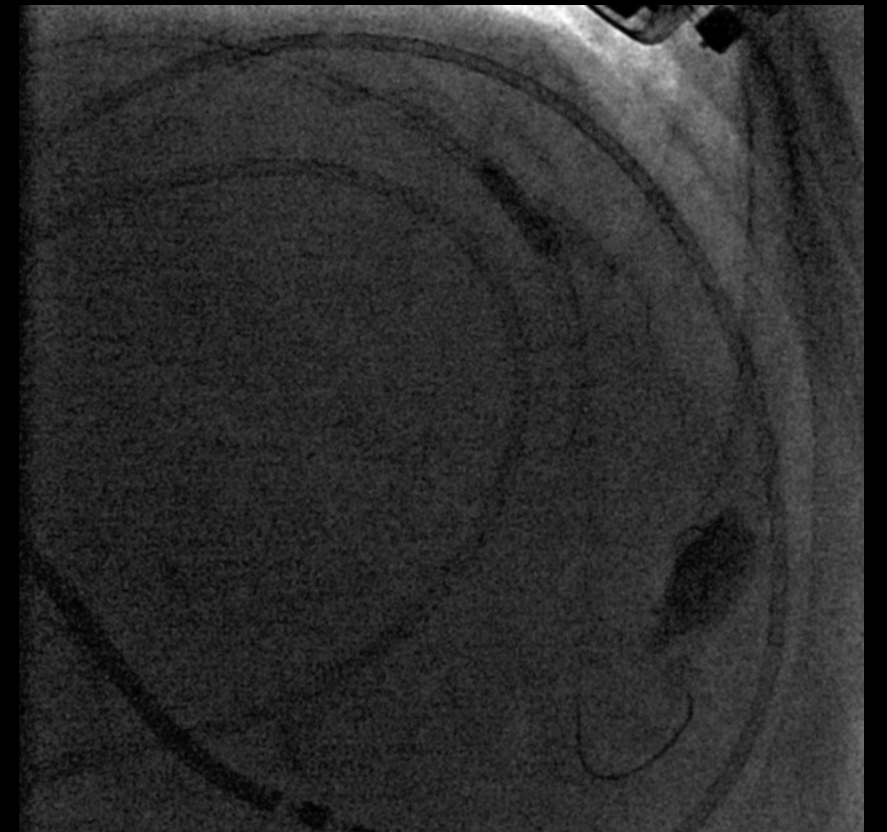
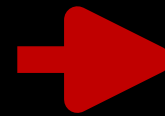




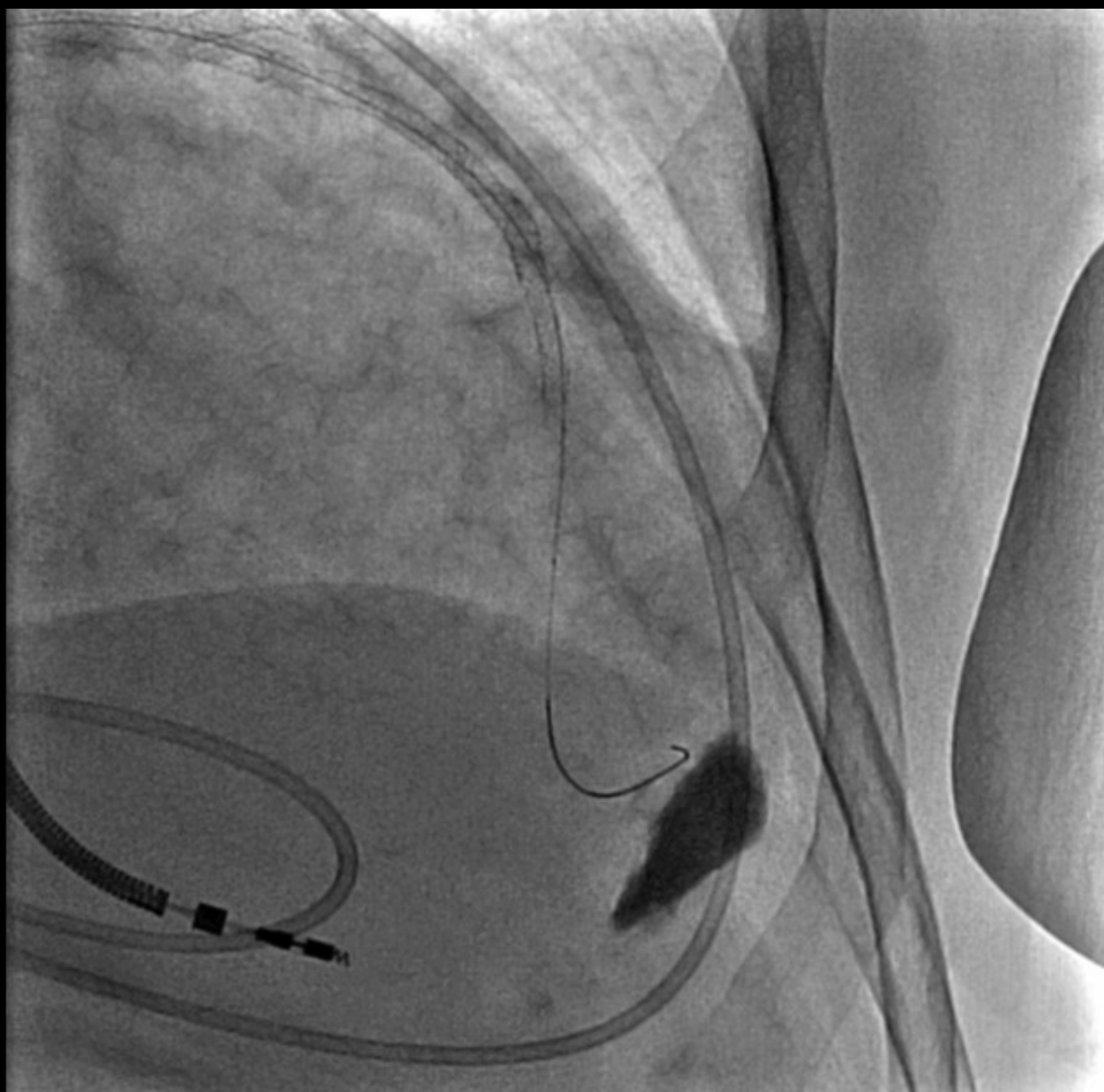


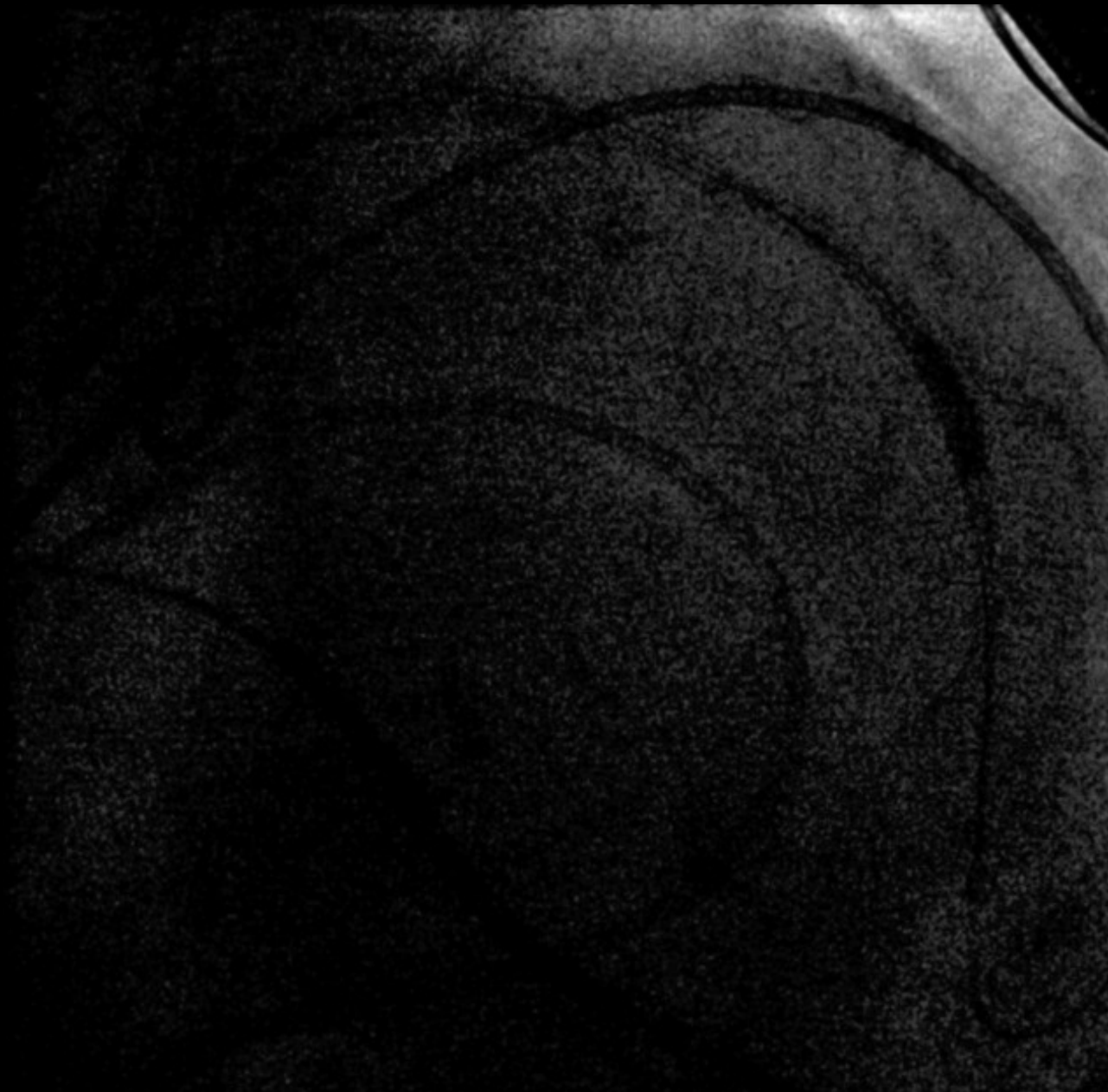


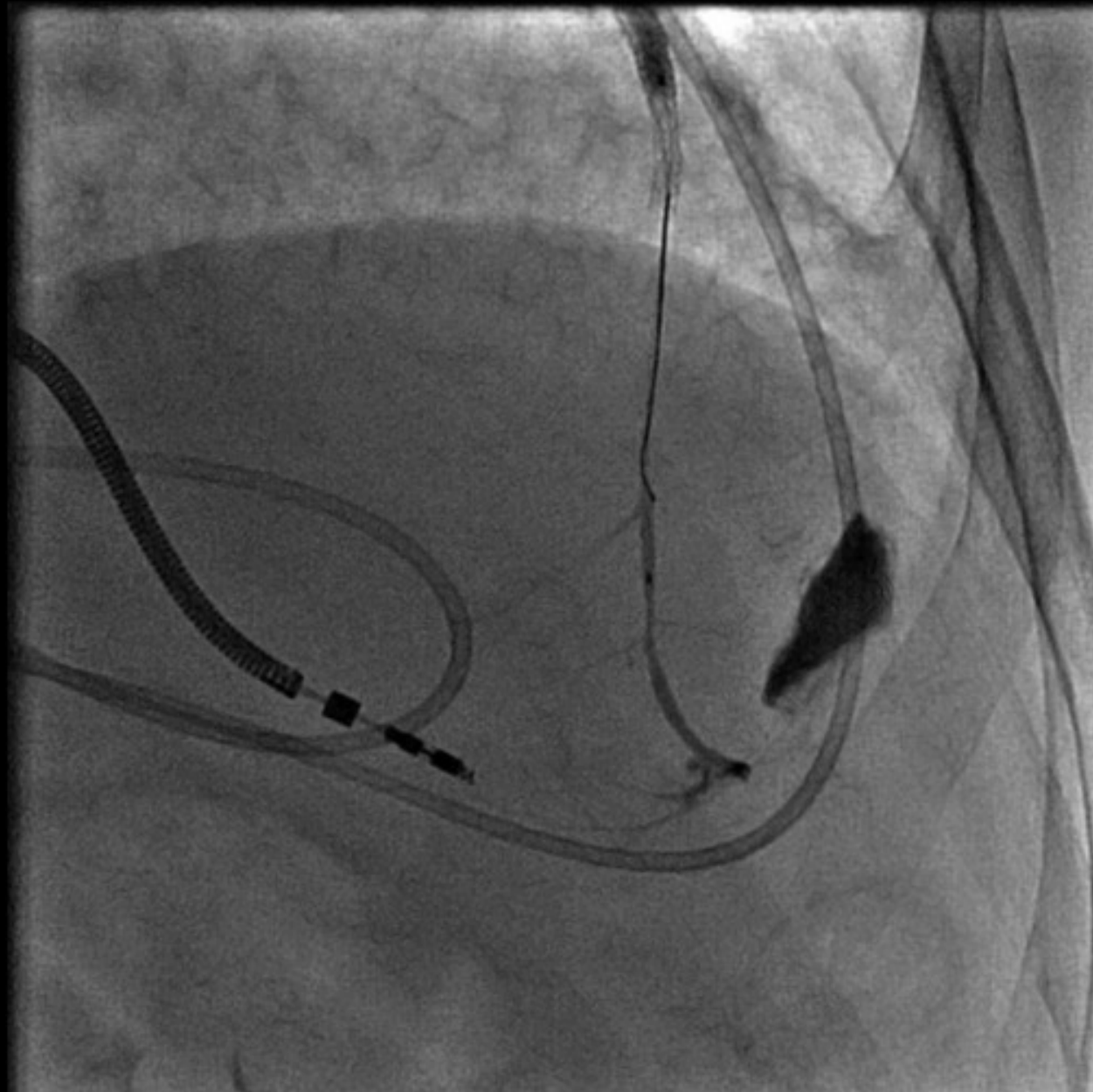
51



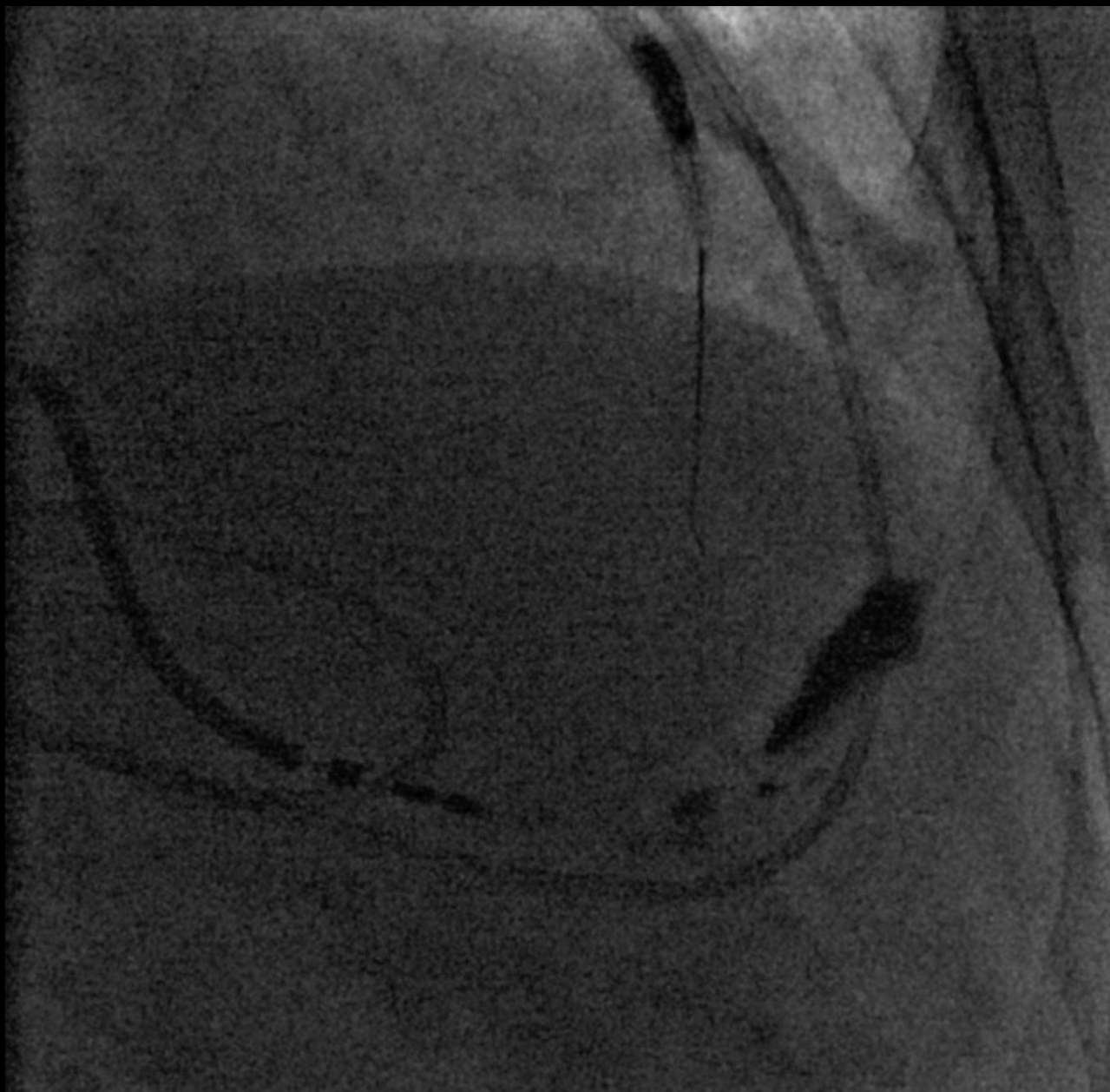




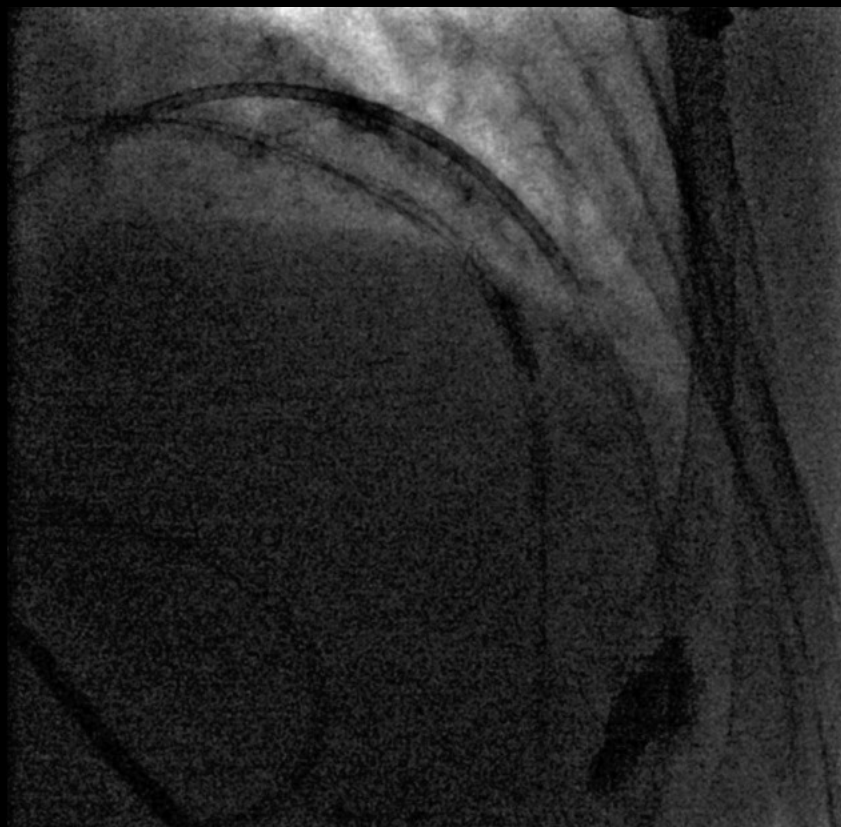


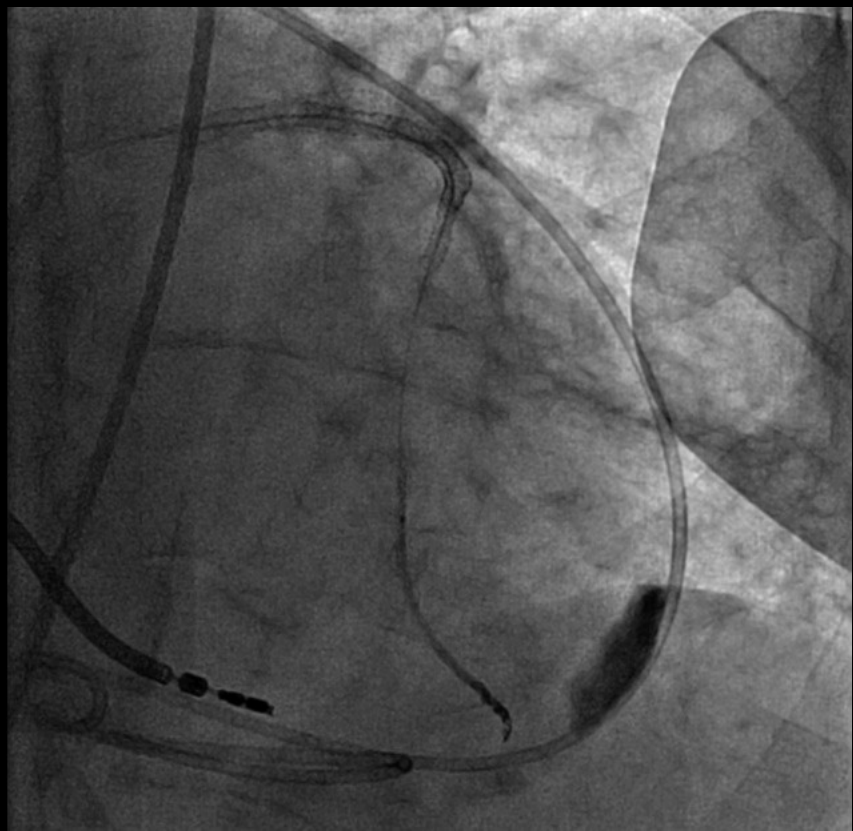
















Perforation management

1. Inflate balloon to occlude vessel
2. Intravenous fluids / pressors
3. Pericardiocentesis if hypotension
– ? autotransfusion
4. Notify surgeons

**“Universal” Algorithm for
Coronary Perforations**

Persistent extravasation?

no

Monitor pt

yes

Treat the cause

Large vessel perforation

1. Covered stent
2. Prolonged balloon inflations

Distal vessel perforation

1. embolization (fat, coil, thrombin, etc)
2. Covered stent over perforated branch origin

**Type-specific
Treatment**

continued extravasation?

Reverse anticoagulation