

Le 'Pire' du Rotablator

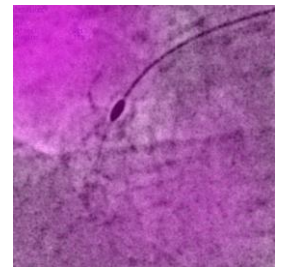
Dr Philippe Brunel

Cardiologie GCIDB

Groupe Cardiologie Interventionnelle Dijon Bourgogne

Clinique Valmy

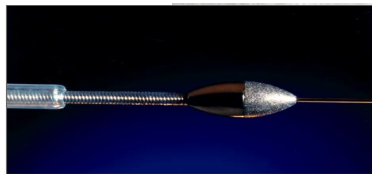
Hopital Privé Dijon Bourgogne



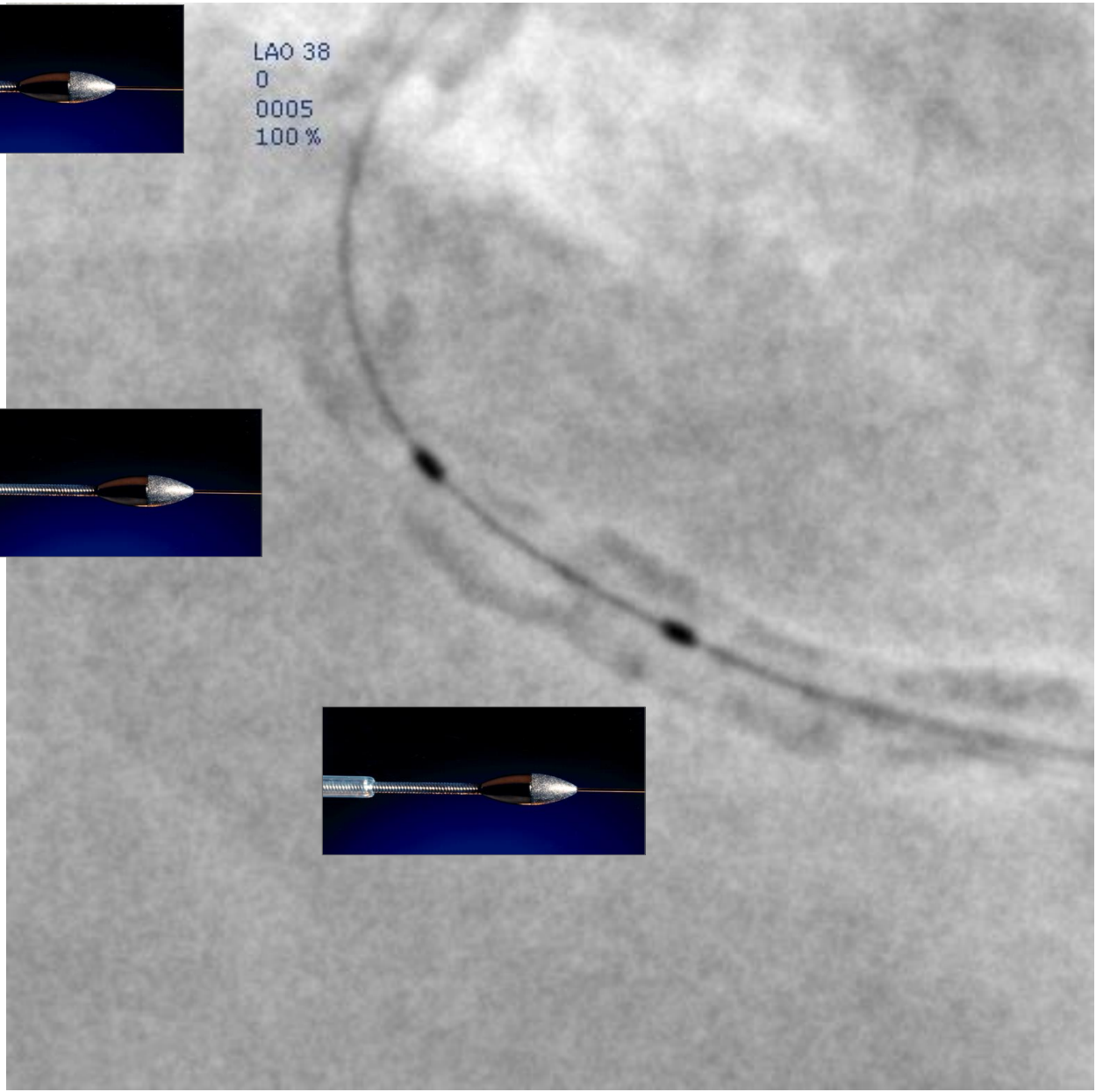
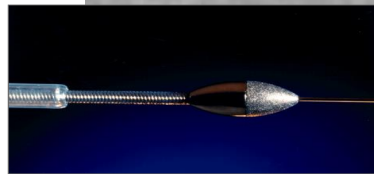
Je suis capable du meilleur comme du pire.
Mais, dans le pire, c'est moi le meilleur.



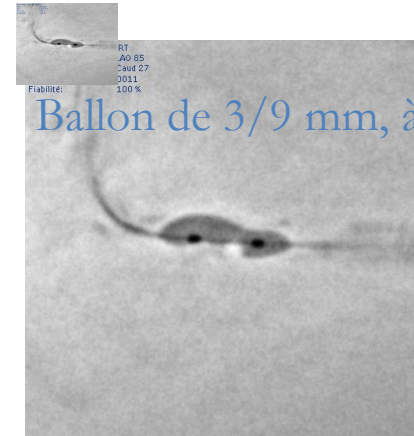
Coluche, 1944-1986



LAO 38
0
0005
100 %



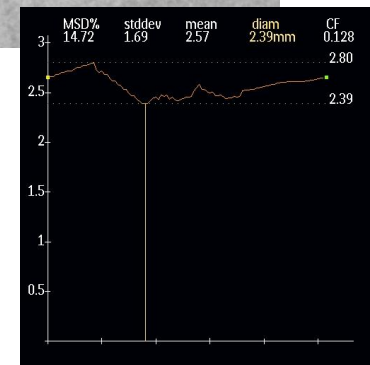
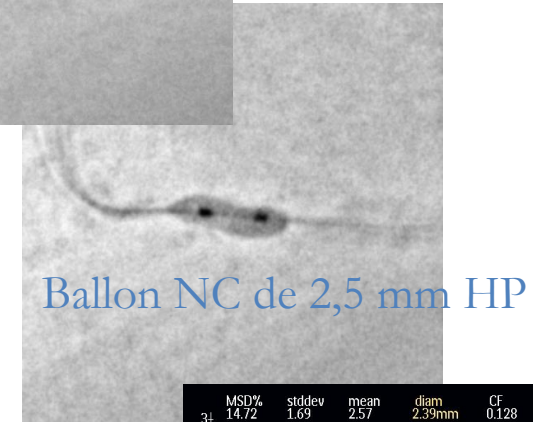
Le Pire?



Ne pas l'avoir ?

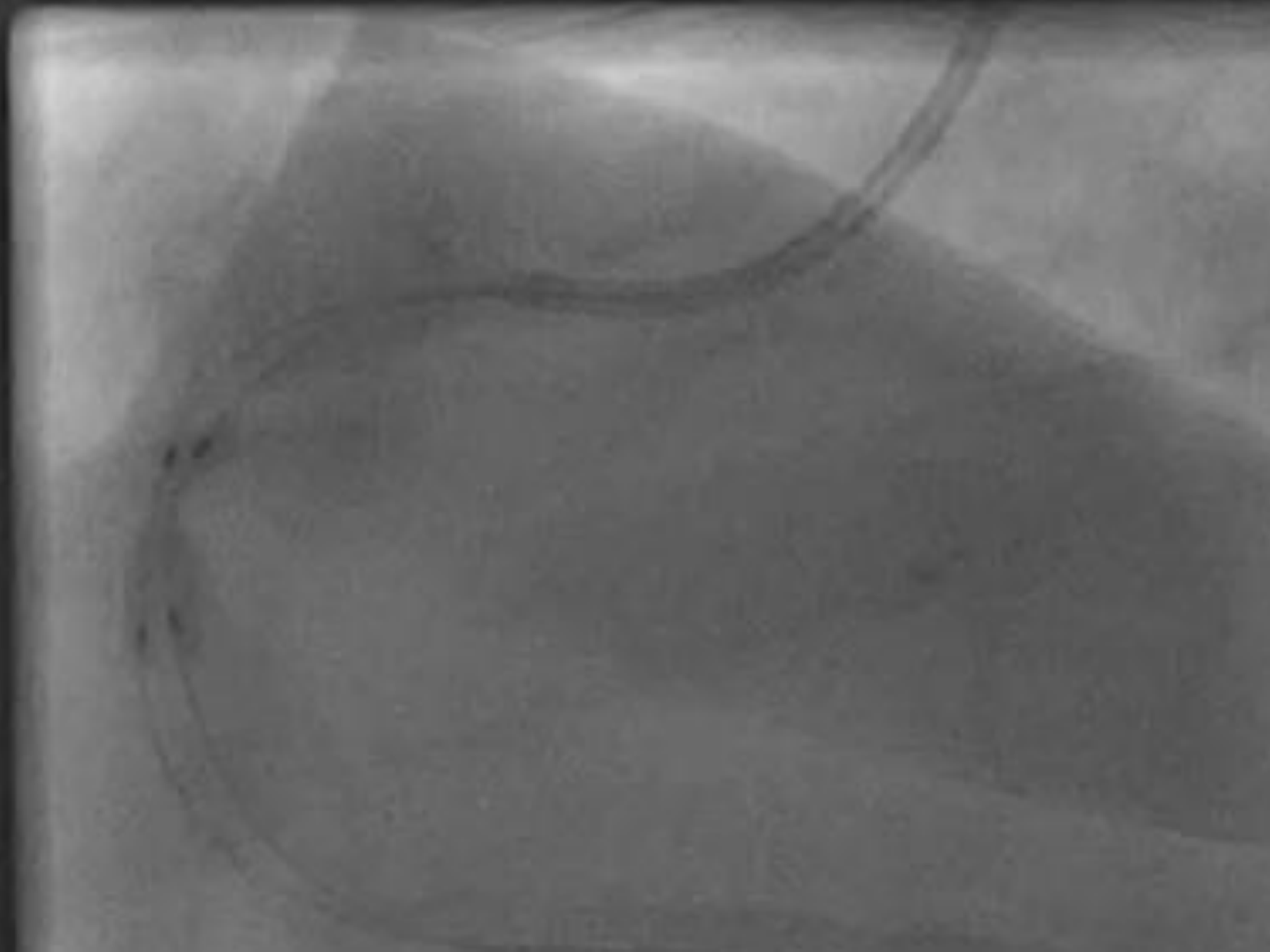
L'avoir et ne pas s'en servir?

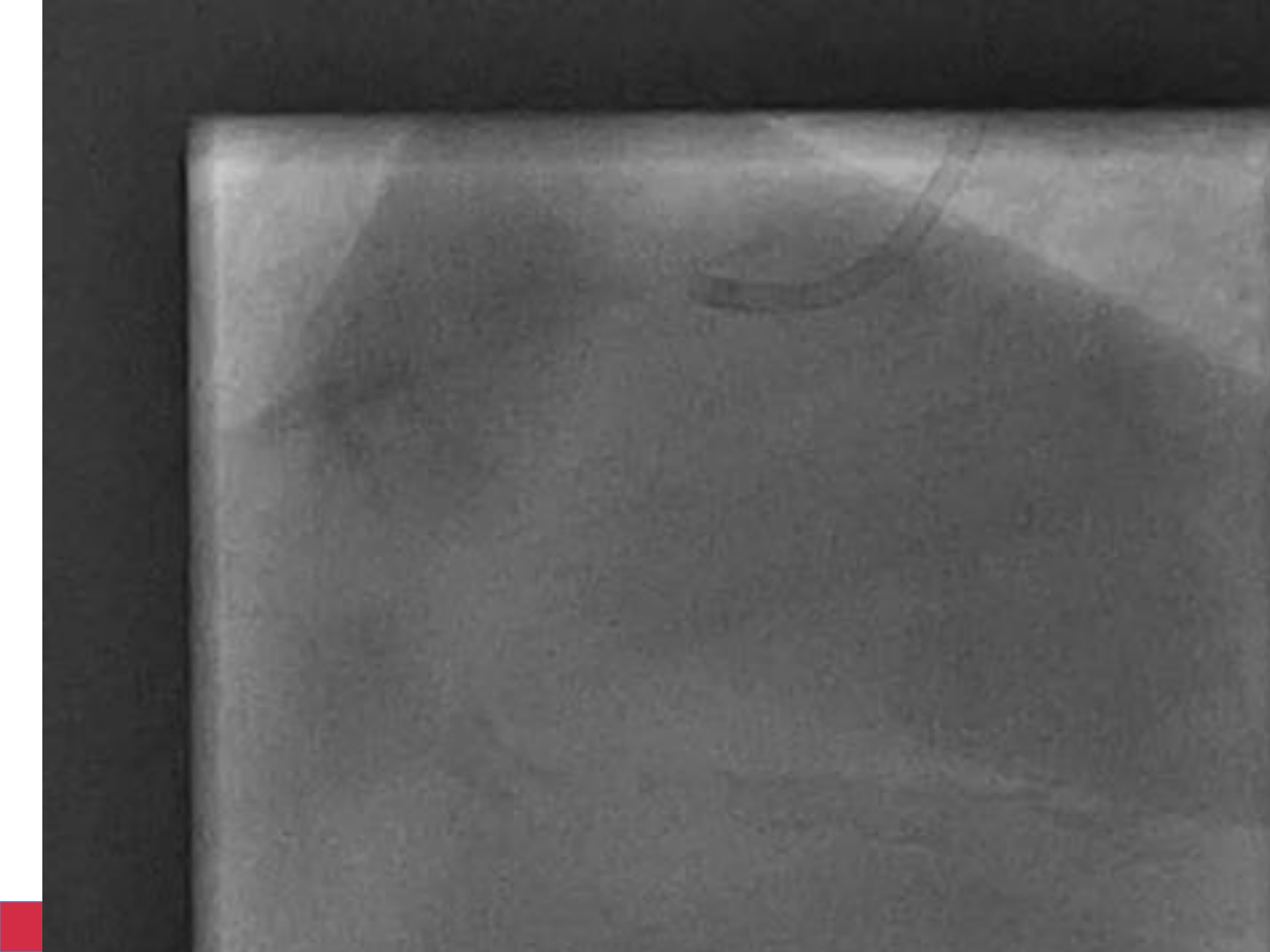
L'avoir et avoir peur de l'utiliser?

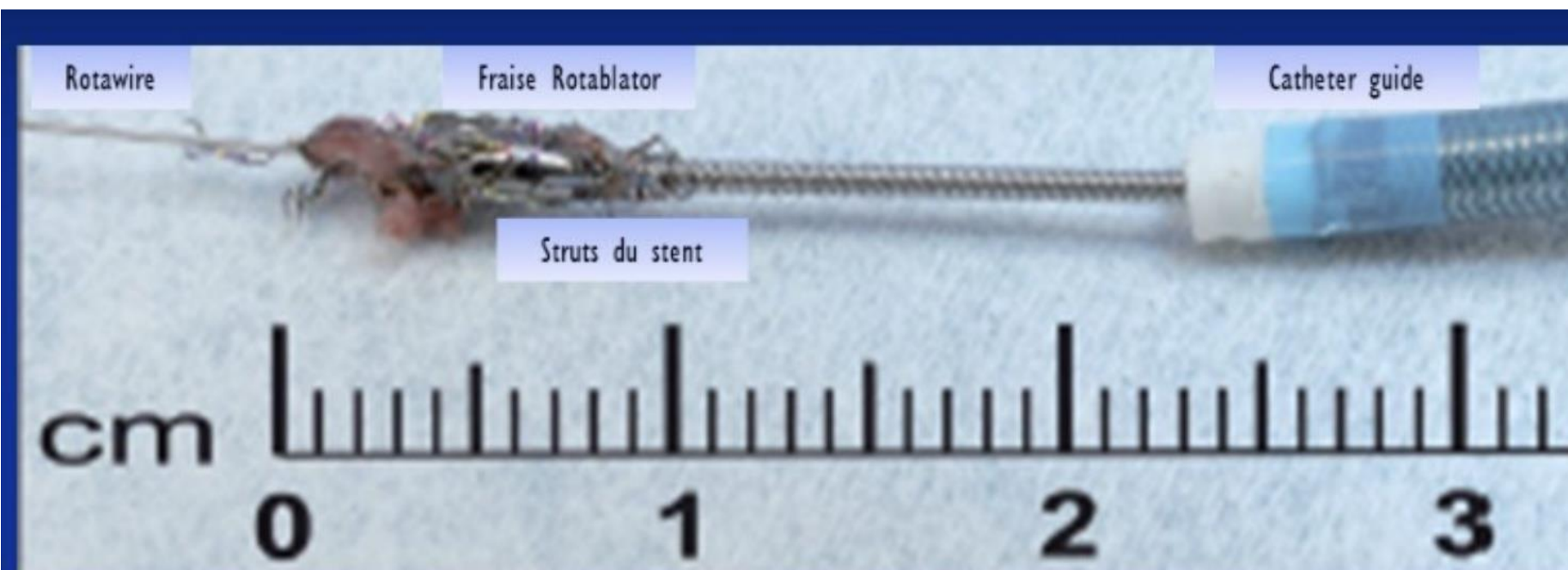












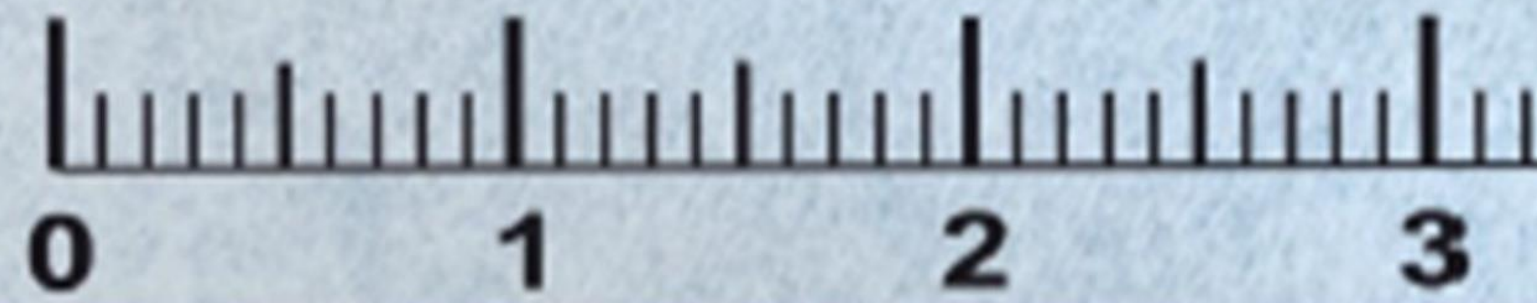
Rotawire

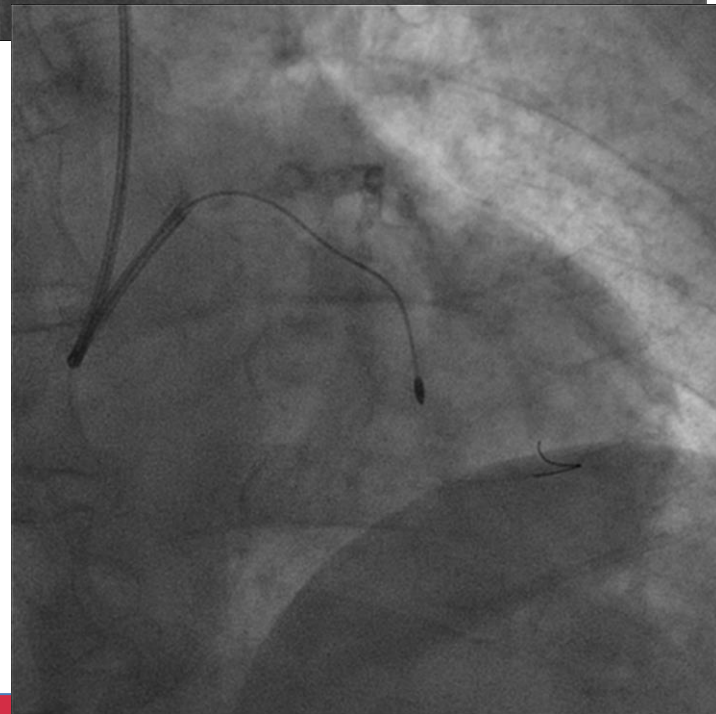
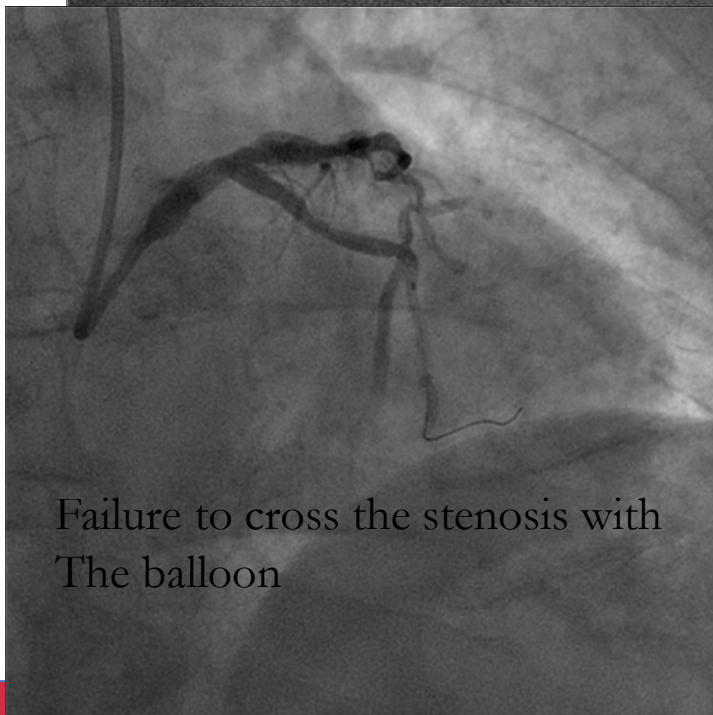
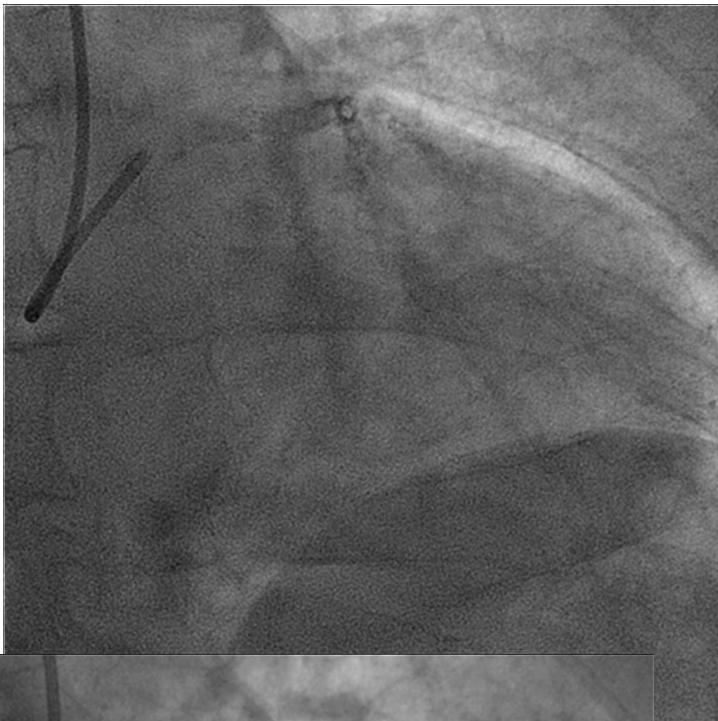
Fraise Rotablator

Catheter guide

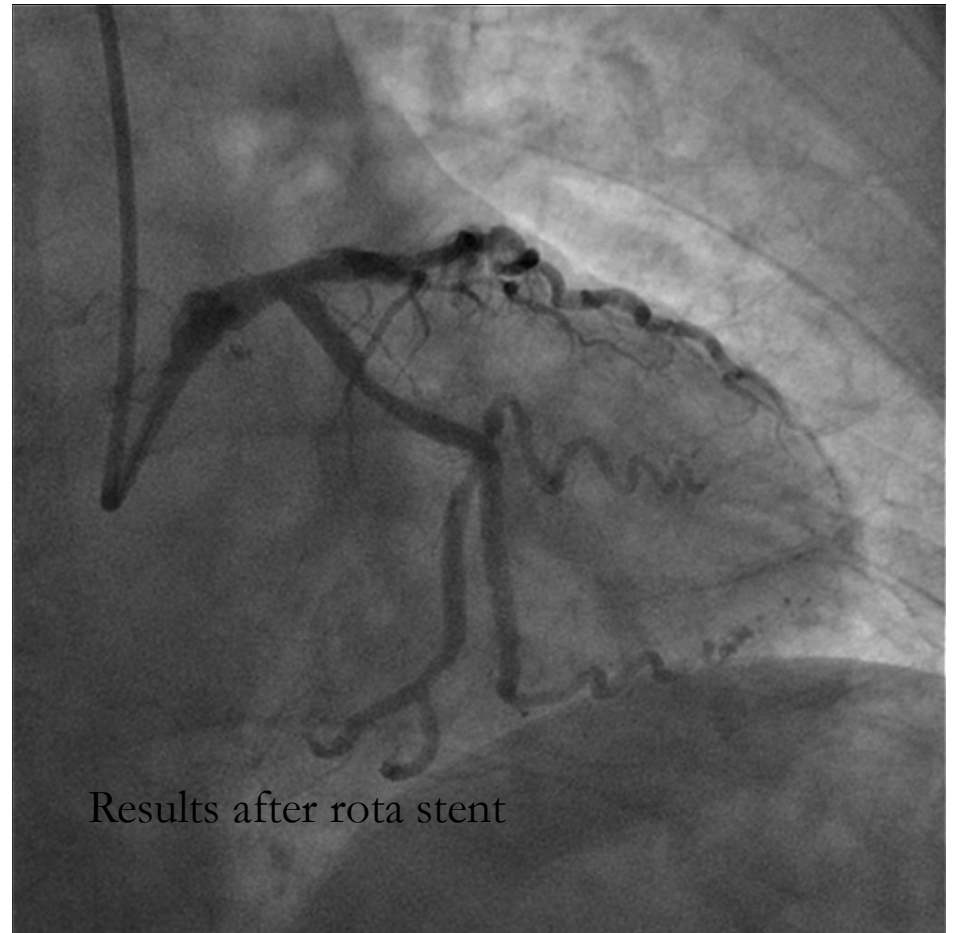
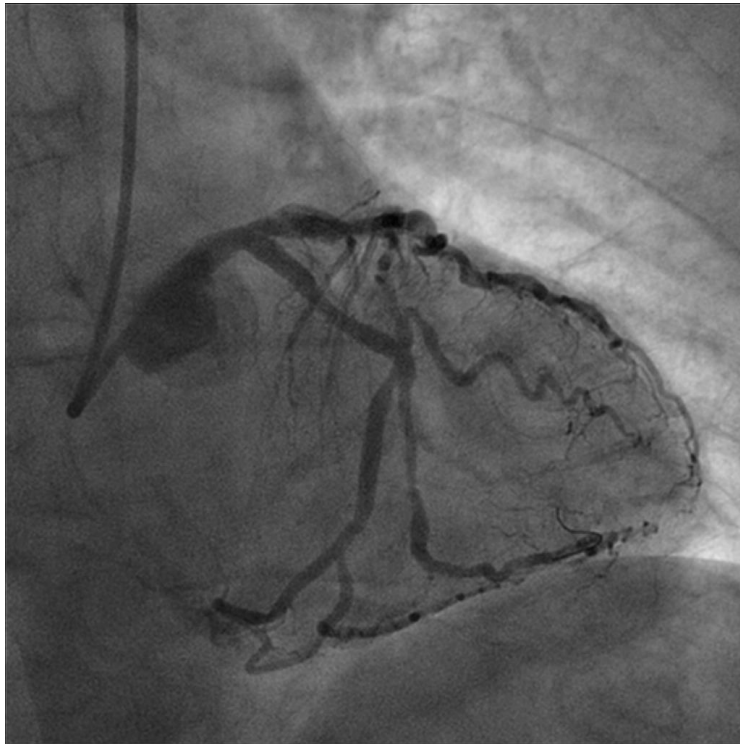
Struts du stent

cm

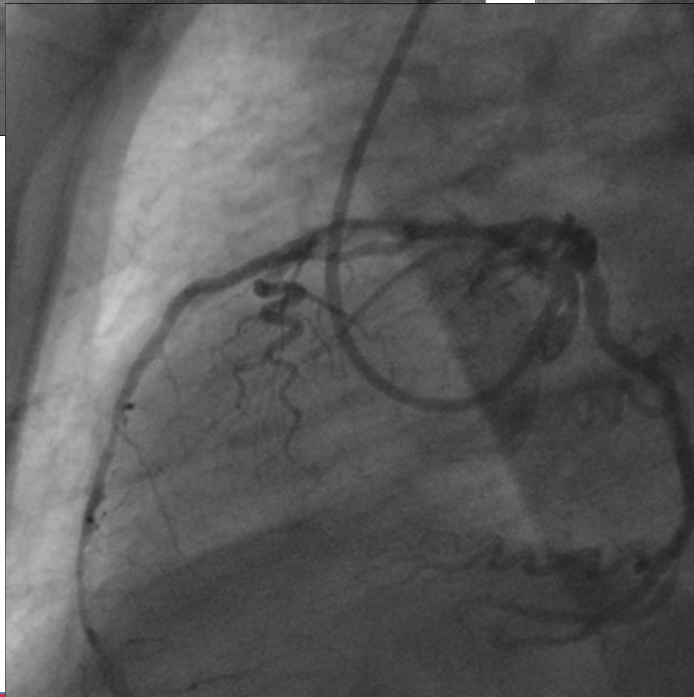
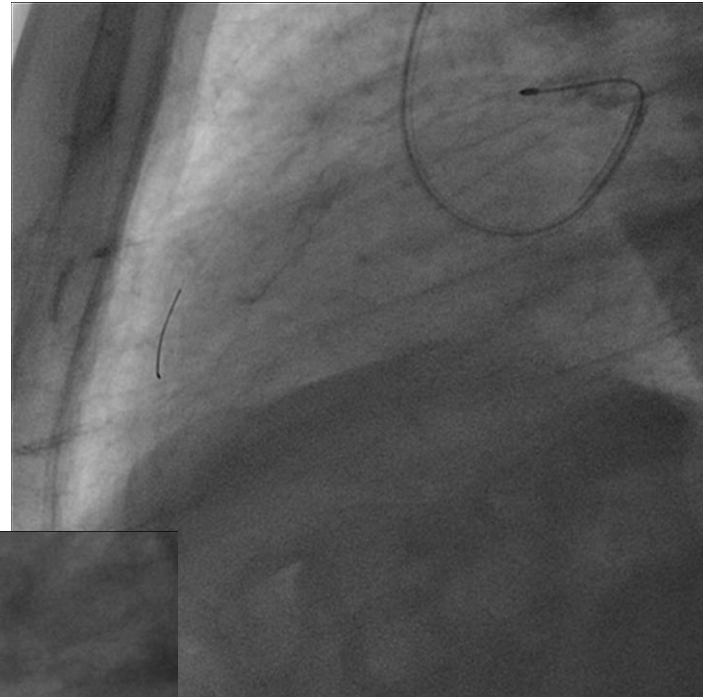




The TAROT REGISTRY : INDICATIONS FOR RA



The TAROT REGISTRY : INDICATIONS FOR RA



Same patient same procedure
Results after rota stent

Le Pire?

Une pharmacienne qui vous dit en novembre il n'y en a plus, vous avez tout consommé!

Pas de 1,25mm??, ok donne moi cette 1,75 mm alors....

Table 2. Reported Complications of RA and DES Implantation

Trial/First Author (Ref. #)	Year	N	Death, %	MI, %	Urgent CABG, %	Vascular, %	Dissection, %	Perforation, %	Acute Closure, %	Side Branch Loss, %	Slow Flow/No Reflow, %
ROTAXUS (16)	2013	120	1.7	1.7	0.8	5.8	3.3	1.7	—	—	0.0
Abdel-Wahab et al. (17)	2013	205	1.5	2.4	—	—	4.4	0.5	—	—	2.0
Naito et al. (18)	2012	233	0.0	1.3	—	—	1.7	0.4	—	—	—
Benezet et al. (19)	2011	102	1.0	1.0	—	—	2.9	0.0	—	—	—
Dardas et al. (20)	2011	184	0.0	—	—	—	—	—	—	—	—
García de Lara et al. (21)	2010	50	4.0	14.0	0.0	—	2.0	2.0	2.0	4.0	0.0
Rathore et al. (22)	2010	391	1.0	6.9	0.0	—	5.9	2.0	0.3	3.6	2.6
Vaquerizo et al. (23)	2010	63	0.0	3.2	0.0	1.6	—	—	1.6	—	—
Furuichi et al. (24)	2009	95	0.0	3.2	—	—	2.1	1.1	—	—	1.1
Clavijo et al. (25)	2006	81	0.0	19.8	—	—	1.9	—	—	—	—

CABG — coronary artery bypass graft surgery; DES — drug-eluting stent(s); MI — myocardial infarction; RA — rotational atherectomy.

Angiography is insensitive for detection of calcification in comparison with intravascular ultrasound (IVUS), but visible calcification on angiography predicts a larger arc of calcification on IVUS (43). Intravascular imaging with IVUS or optical coherence tomography (OCT) further permits discrimination of superficial (near the intima-lumen interface) and deep (at the media/adventitia border) calcium (44,45).

RA facilitates procedural success in PCI of complex (American College of Cardiology/American Heart Association types B2 and C) lesions (46,47), including chronic total occlusions (48,49), ostial lesions (50–52), and bifurcation lesions, which may be associated with both bulky

Although studied previously for treatment of in-stent restenosis (ISR) with favorable short-term and late outcomes, in the DES era, RA has largely been supplanted for this purpose by balloon angioplasty, drug-coated balloons, cutting or scoring balloons, same or different DES, vascular brachytherapy, or CABG (58). It is worth noting that the benefits of RA, when used for ISR, likely depend on the mechanism of restenosis—an observation explaining the discrepancy between the 2 randomized trials on the subject. In ROSTER (Randomized Trial of Rotational Atherectomy Versus Balloon Angioplasty for Diffuse In-Stent Restenosis), which randomized 200 patients with IVUS-confirmed diffuse ISR to RA plus low-pressure balloon

TAROT FRENCH REGISTRY

252 patients

- ✓ **2005, Between July and december, 29 Frenchcenters**
- ✓ **All consecutive rotator procedures**
- ✓ **2.13% (0,3-6%) of all procedures performed during the same period of time**



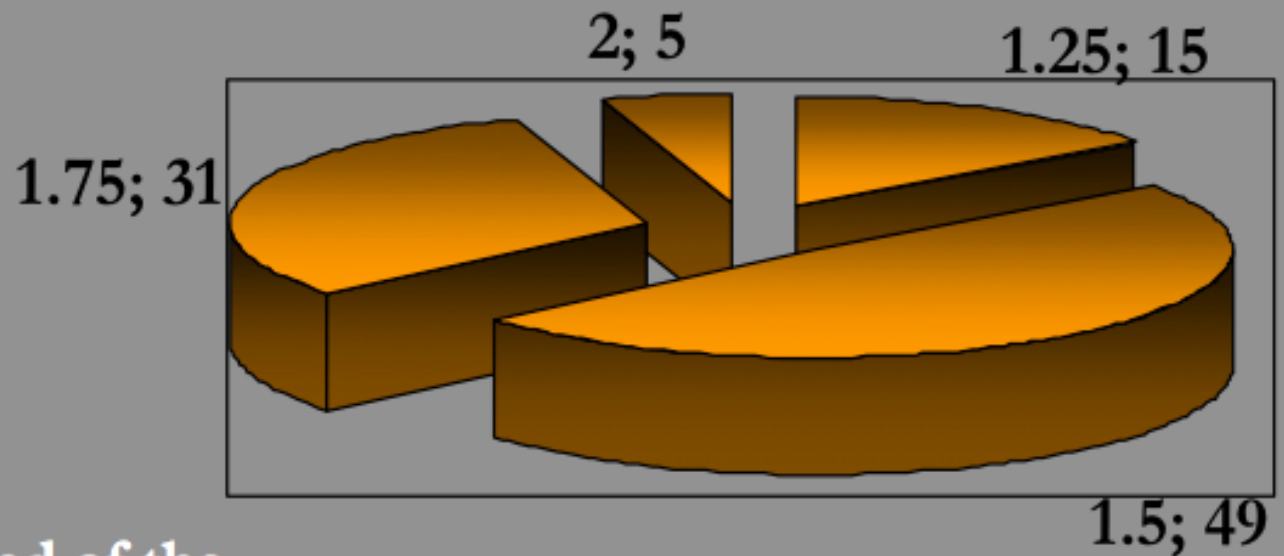
TAROT RESULTS

Succès de la procédure de rotablator :
97%

✓ 5 échecs

✓ Un franchissement partiel

TAROT : PROCEDURE



- ✓ mean speed of the burr : 182000 rpm
- ✓ total atherectomy time : 51+/- 43 sec
- ✓ Mean residual stenosis after RA : 44+/- 27%

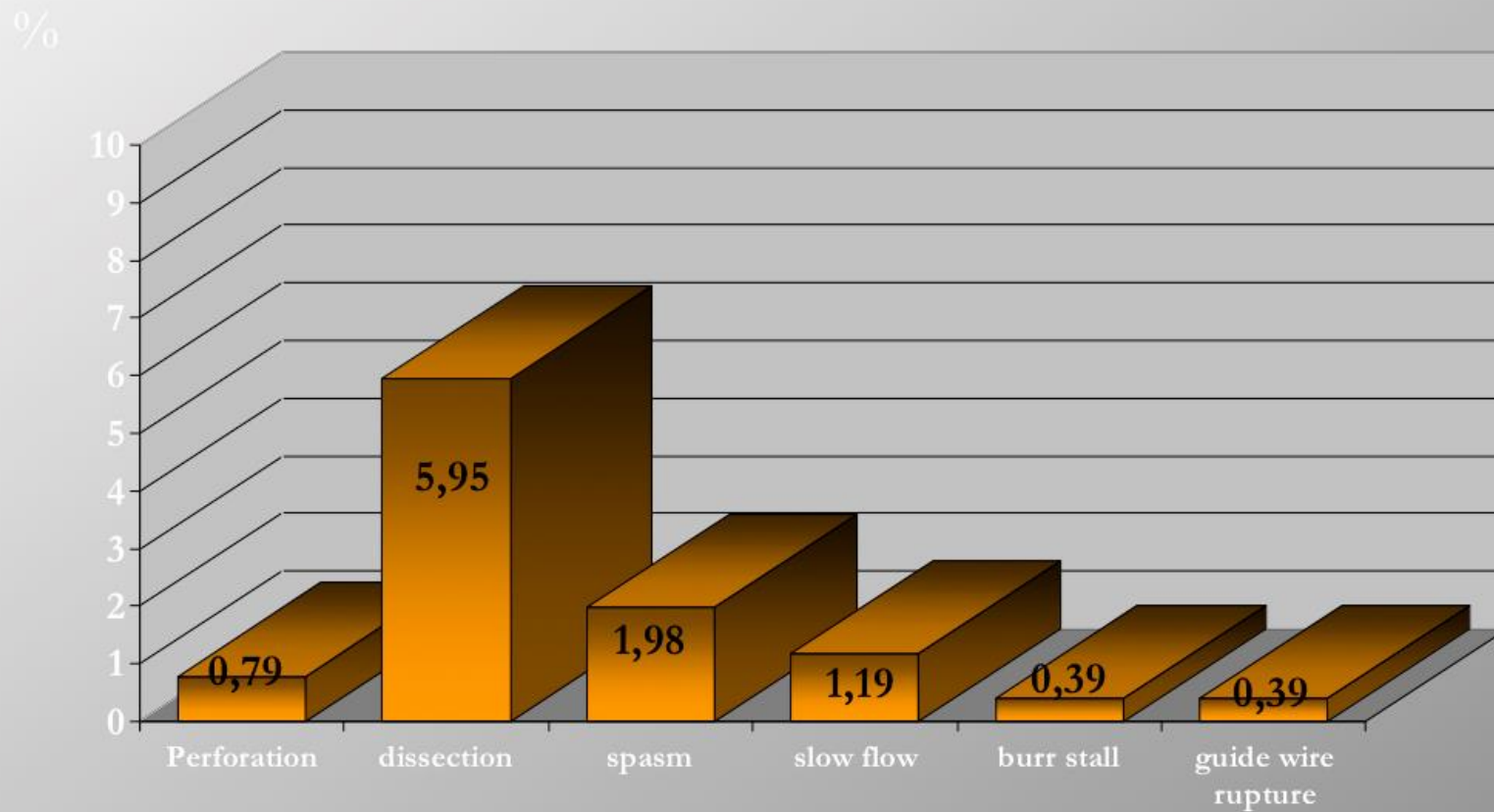
% Le Pire %

N=252

Blocage de fraise	0,39%
Rupture de guide	0,39%
Perforation	0,79%

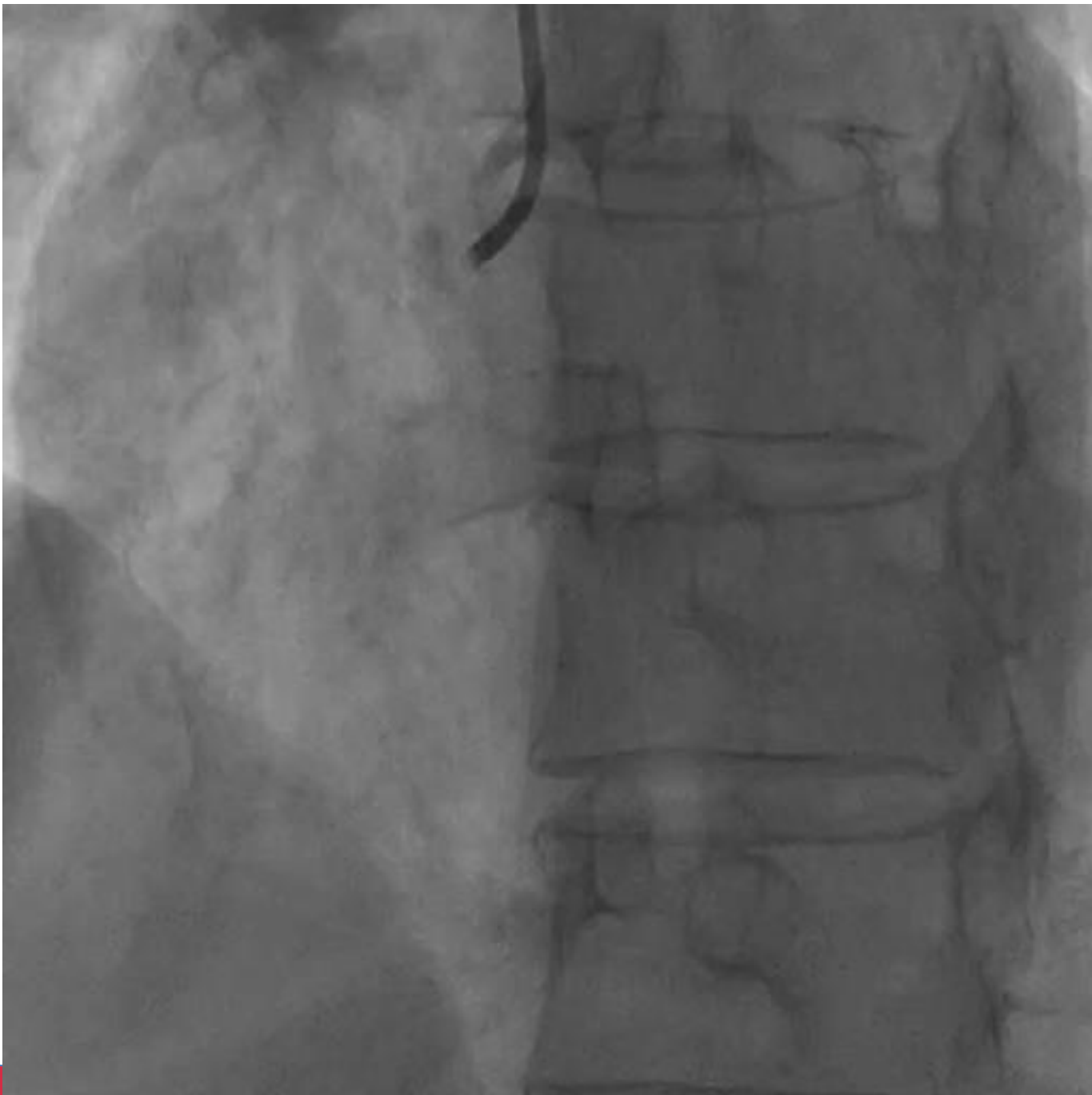
TAROT : COMPLICATIONS

(n=252)



1

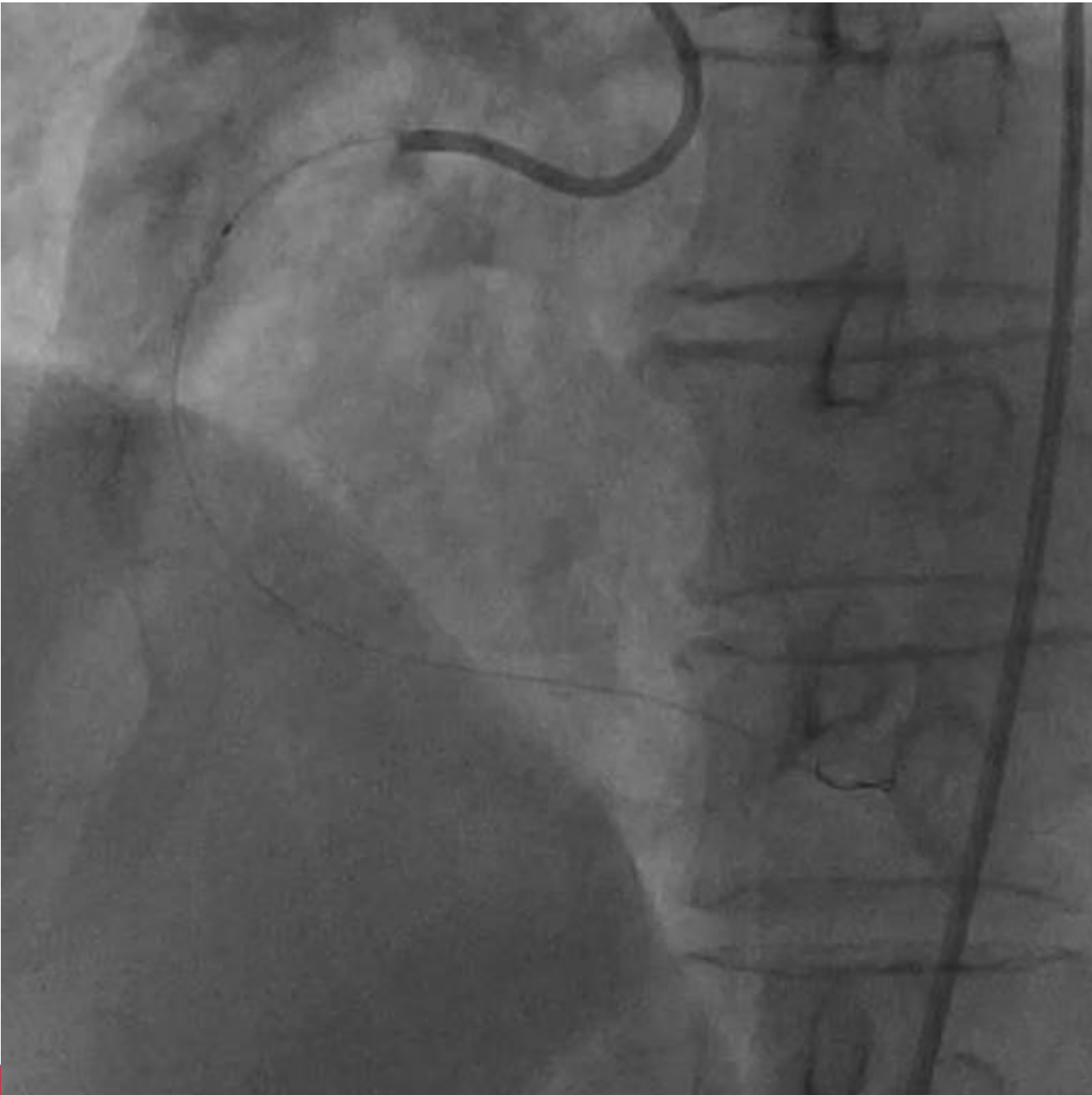
Ou est la fraise ?

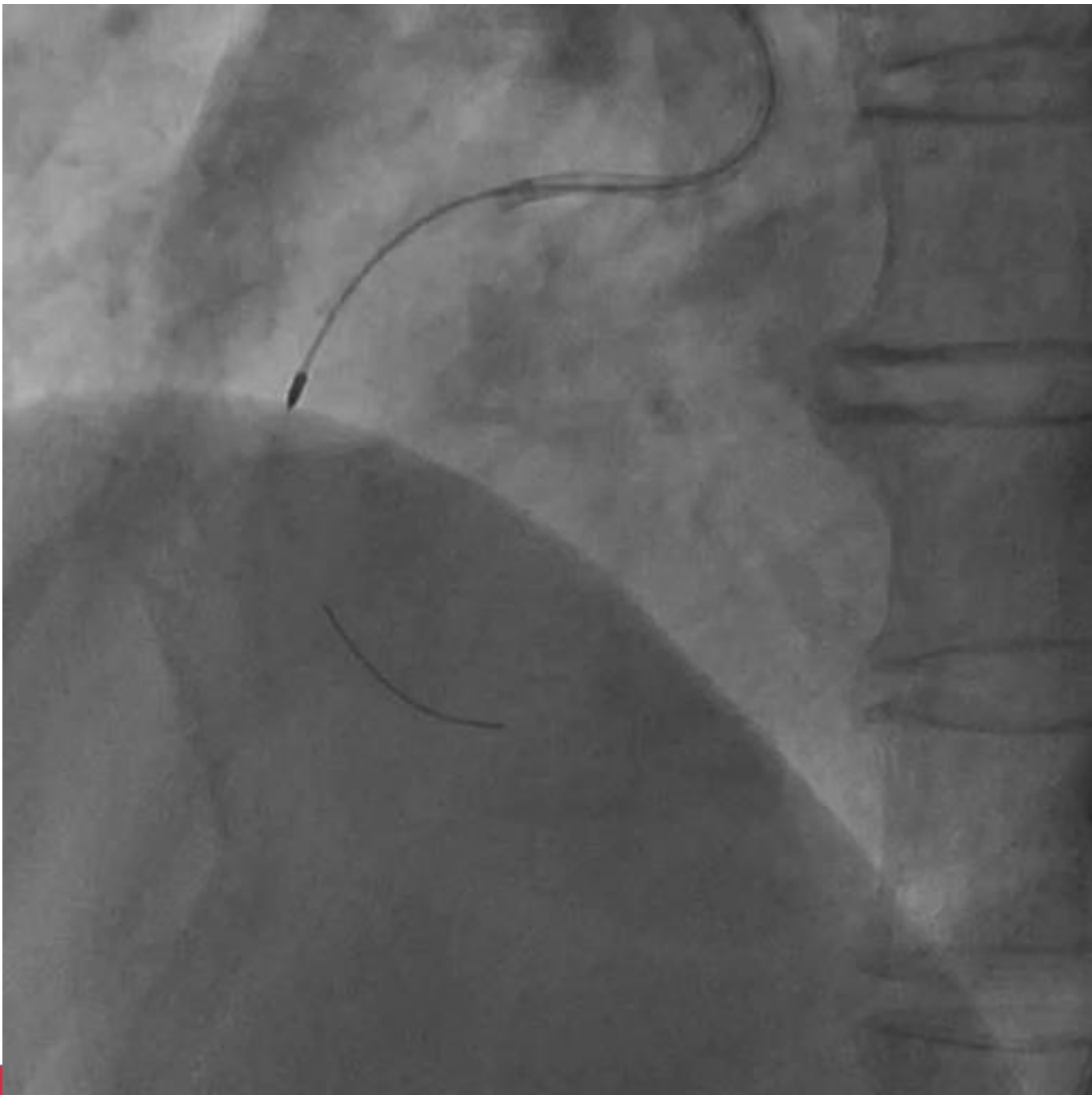


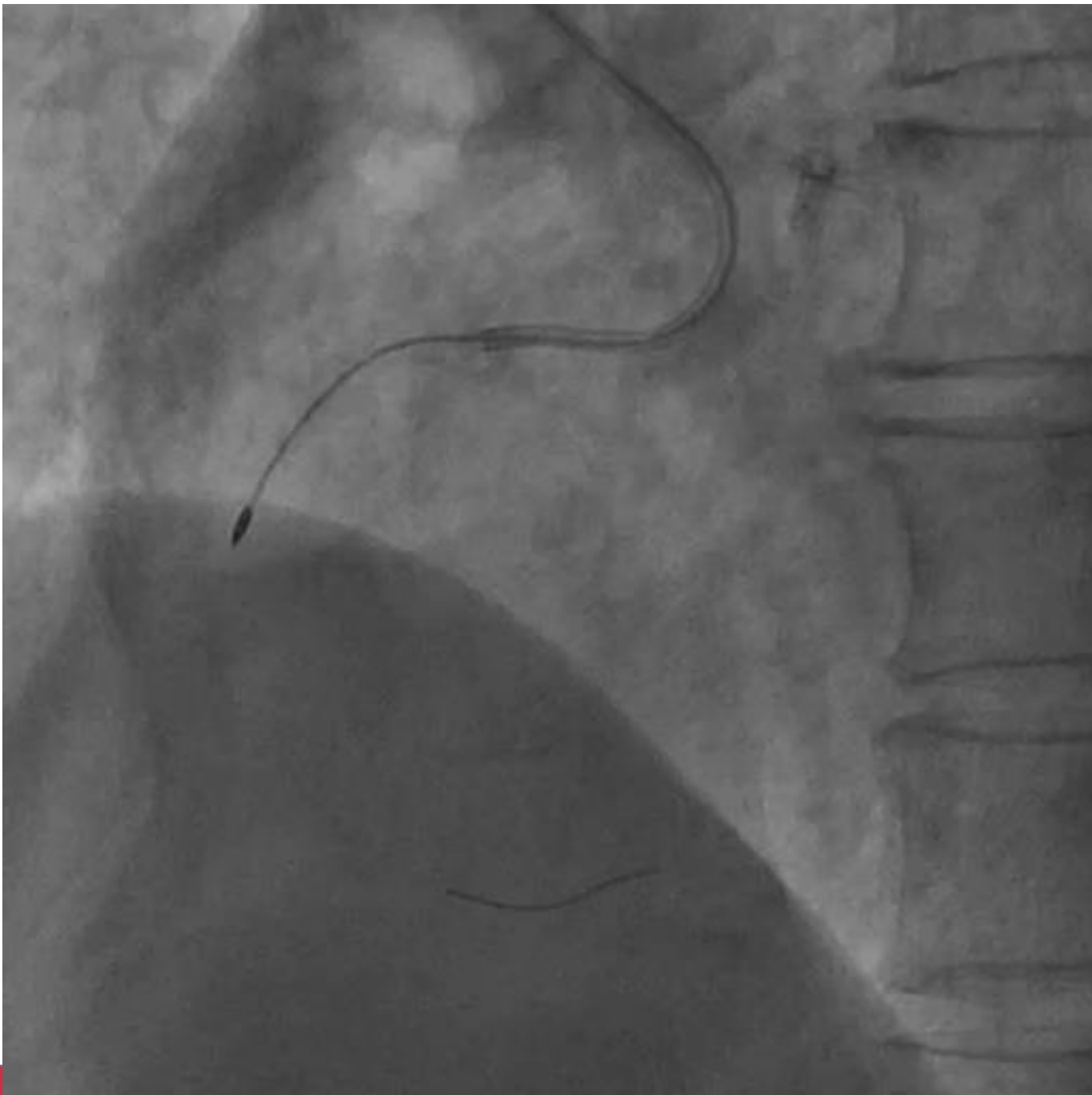


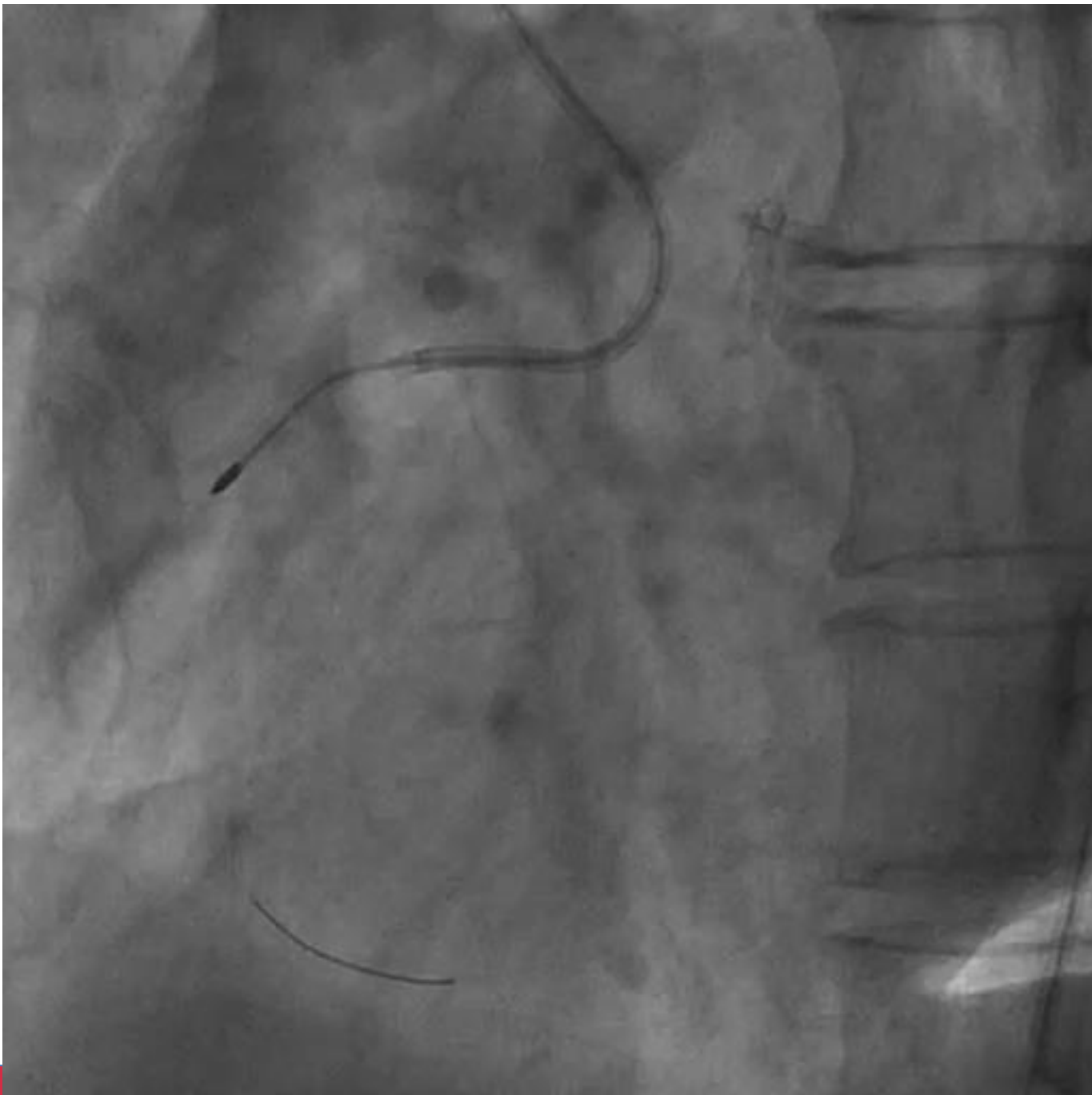


















- ✓ Fraiser sur le guide
- ✓ Depister immédiatement une mauvaise position de la fraise par rapport au guide
- ✓ Verifier l'intégrité du guide +++ lors des reculs de kt guide dans l'aorte, qui peuvent générer un bouclage du guide dans l'aorte et sa fracture ultérieure lorsque l'on ré-avance la fraise...

- ✓ Etre au point sur les techniques de prise en charge rapide des perforations
- ✓ Savoir éviter le stent graft....si c'est possible

2

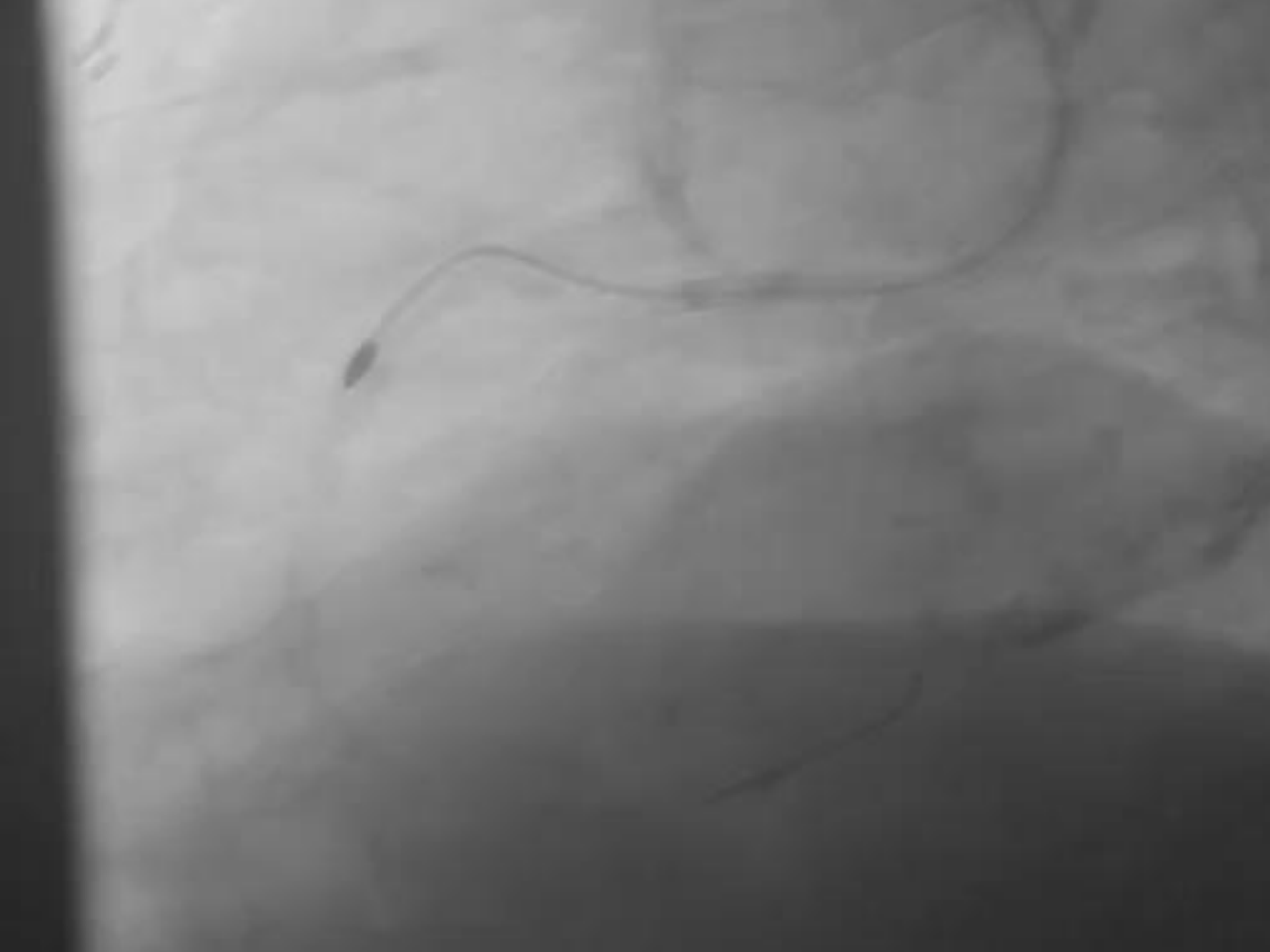
Ou est la lésion?

BLOCAGE DE FRAISE





Handwritten text, possibly a signature or initials, located in the upper right quadrant of the image. The text is written in a cursive or script style and is difficult to decipher due to the low contrast and blurriness. It appears to consist of several characters, possibly including the letters 'A', 'B', and 'C'.





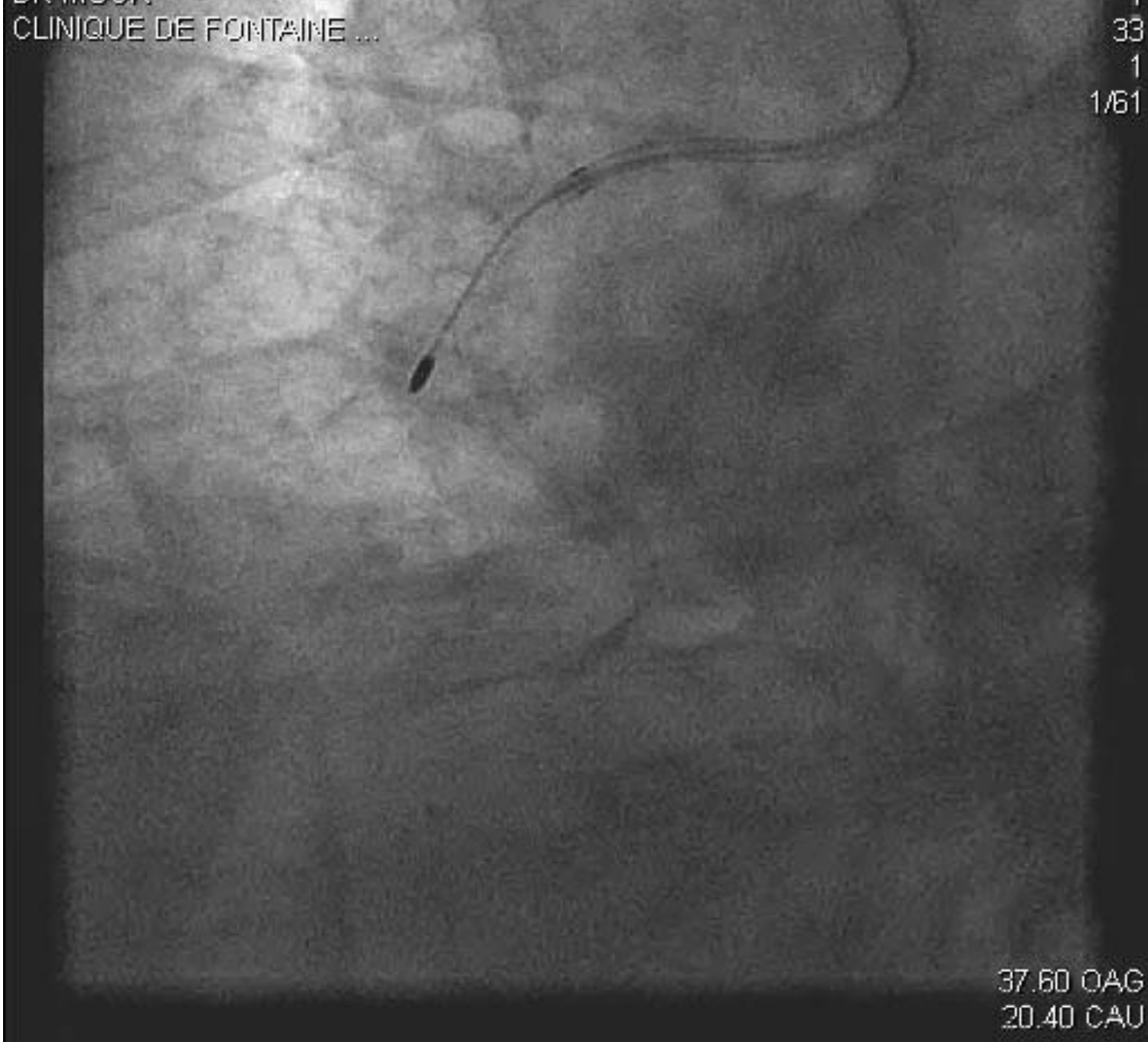
3

- ✓ Etude attentive du film de coro avant la procédure
- ✓ Identification au préalable de sténose serrée en tandem, source de blocage de fraise

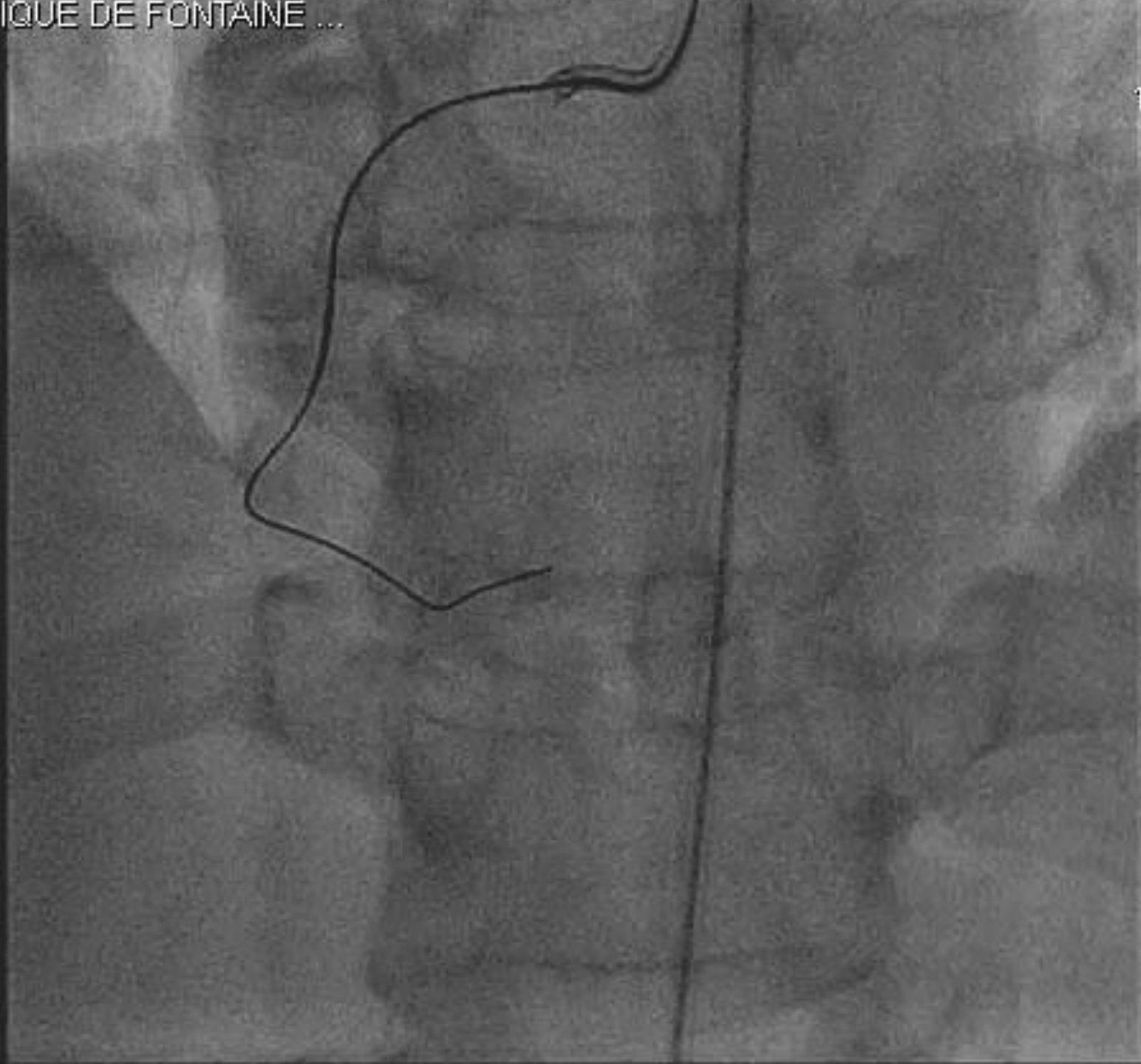


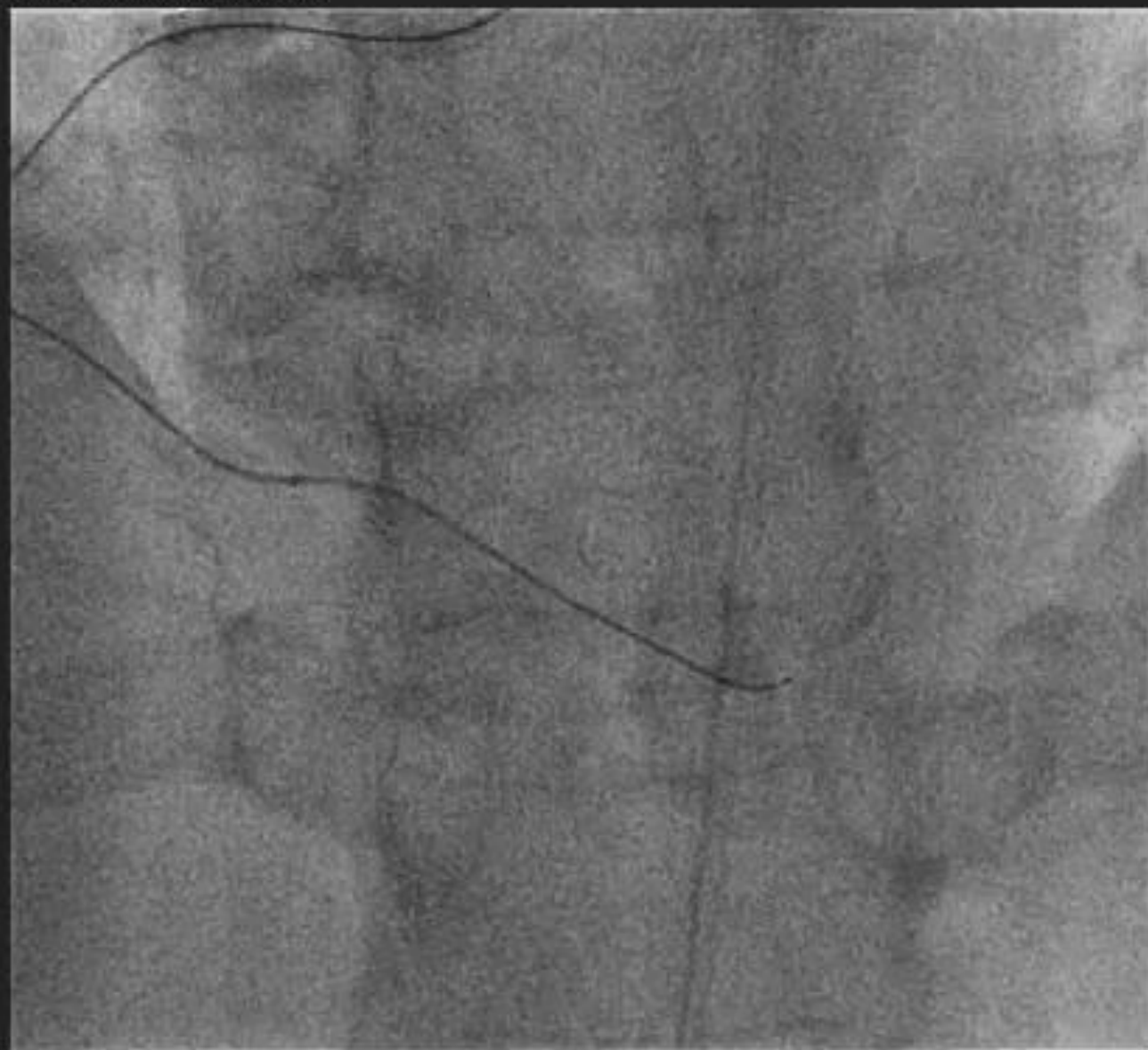
3

Ou est le guide?



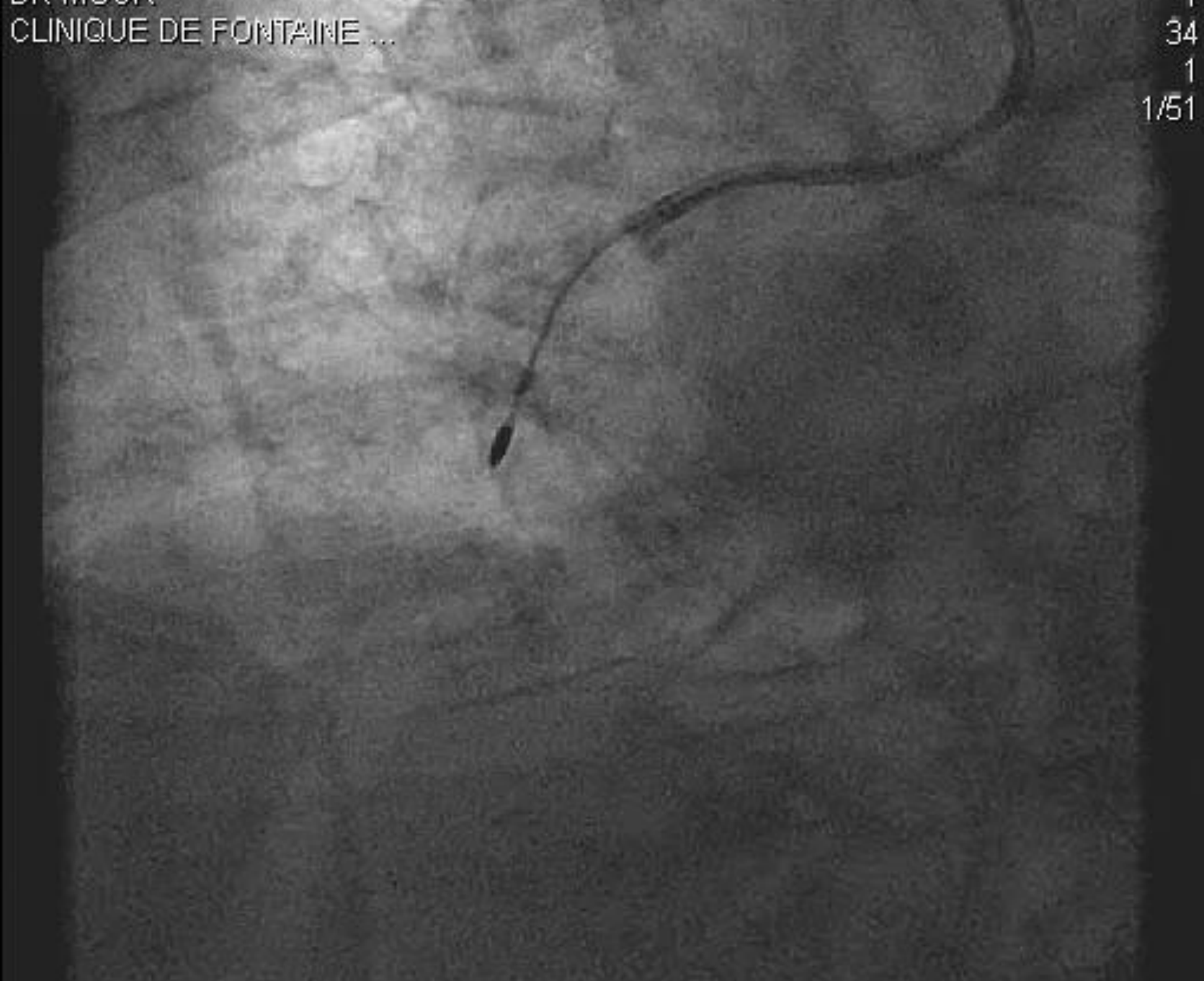
37.60 OAG
20.40 CAU

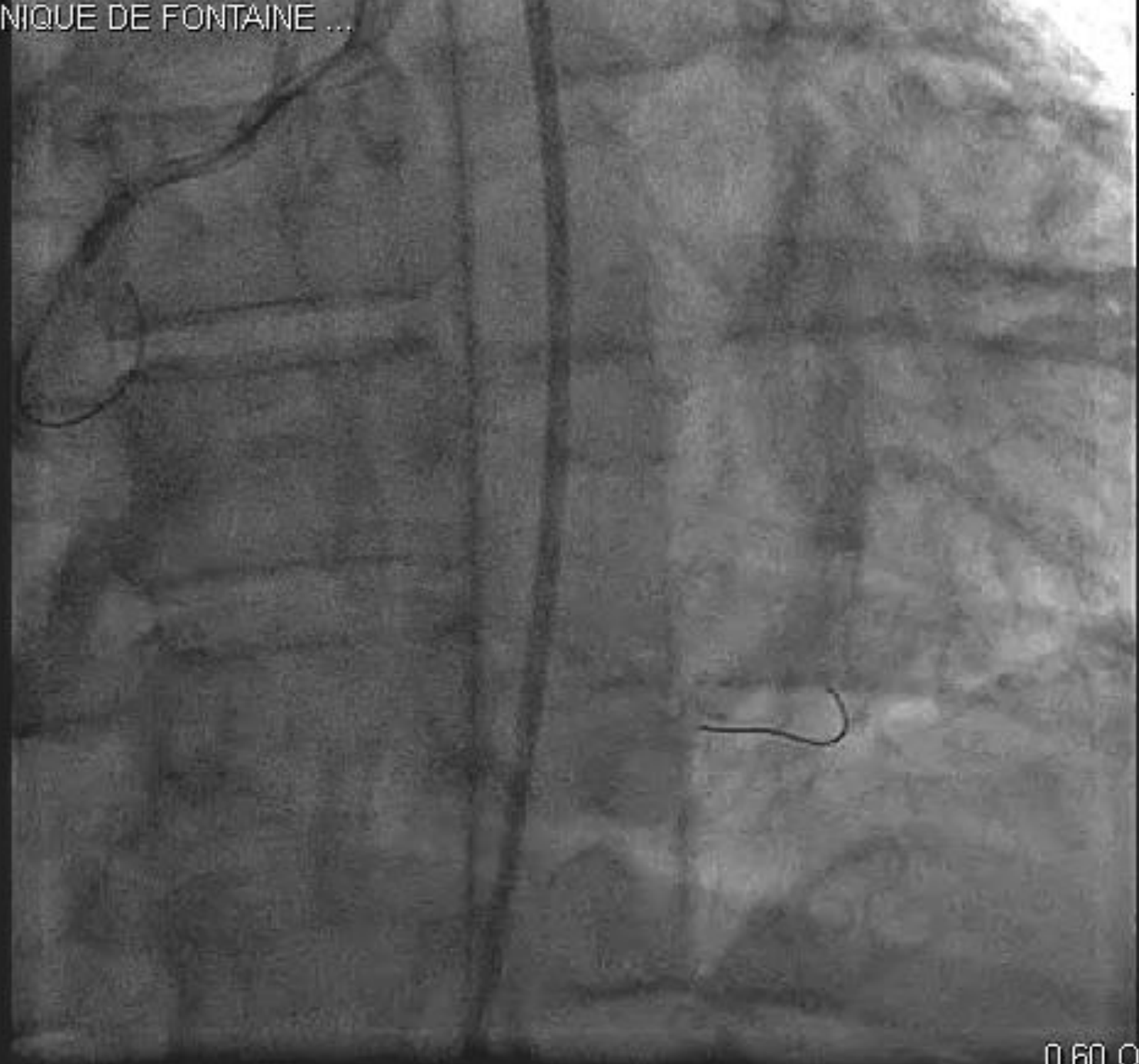


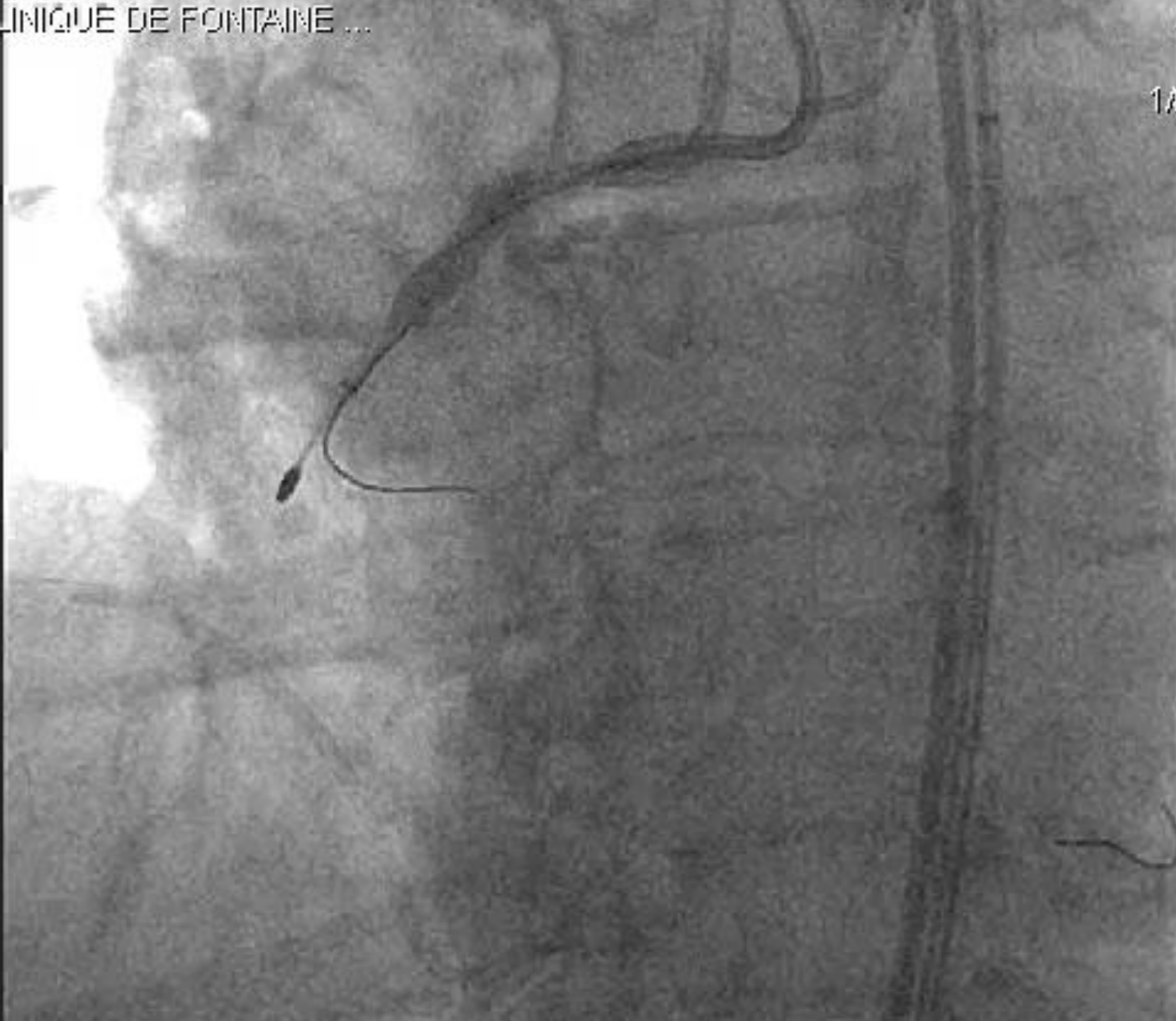


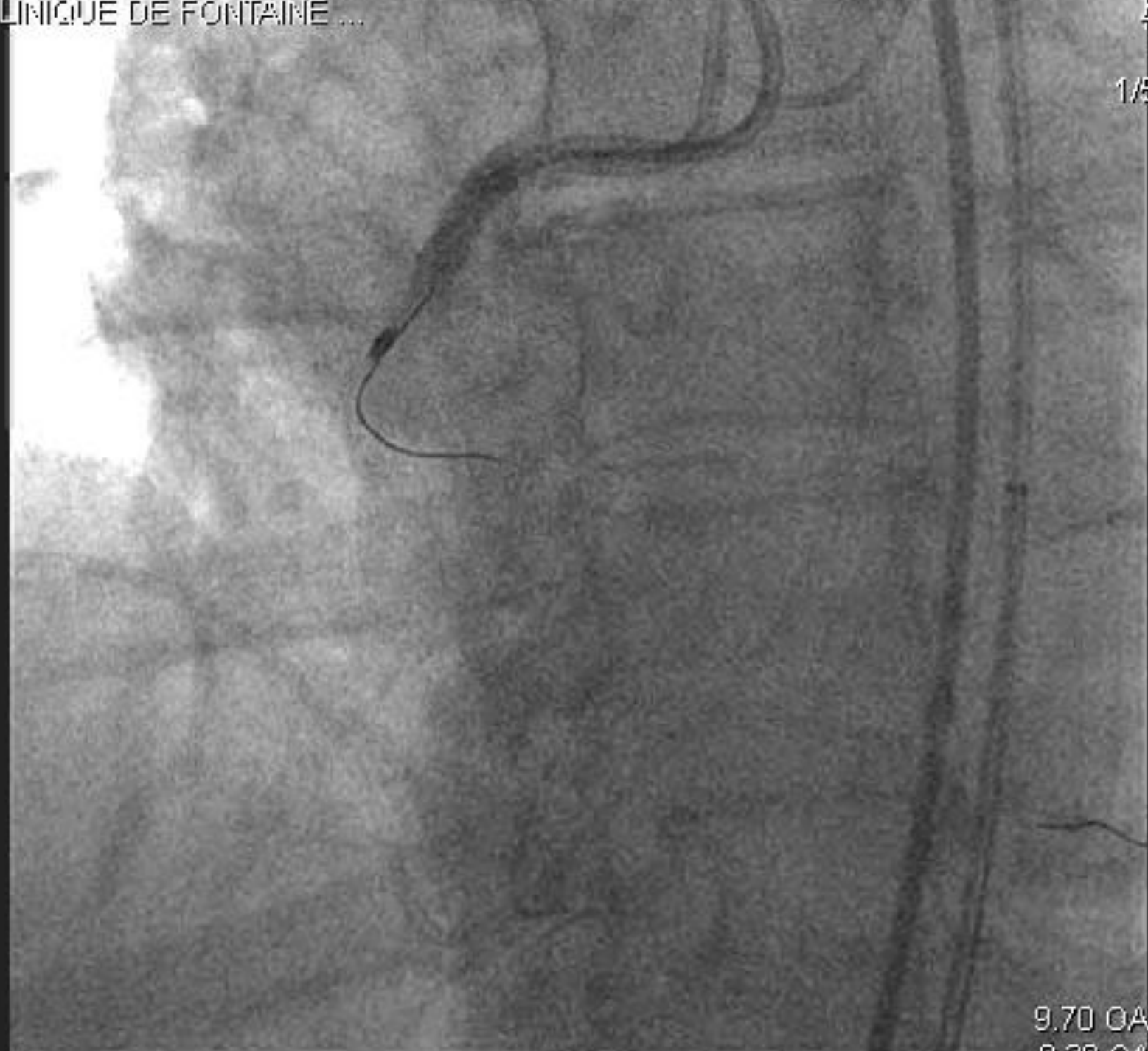


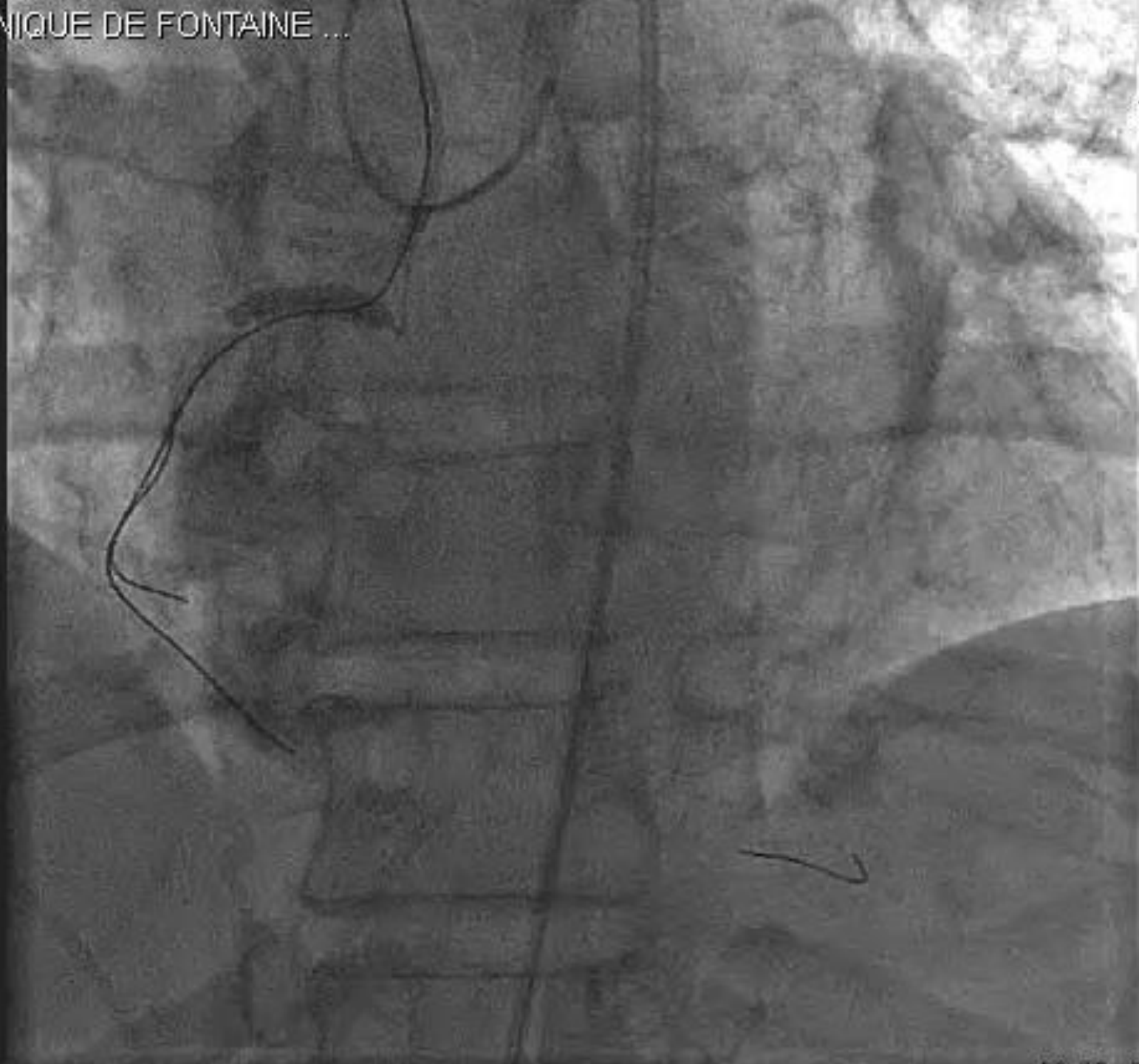
0.00 OAG
24.80 CRA









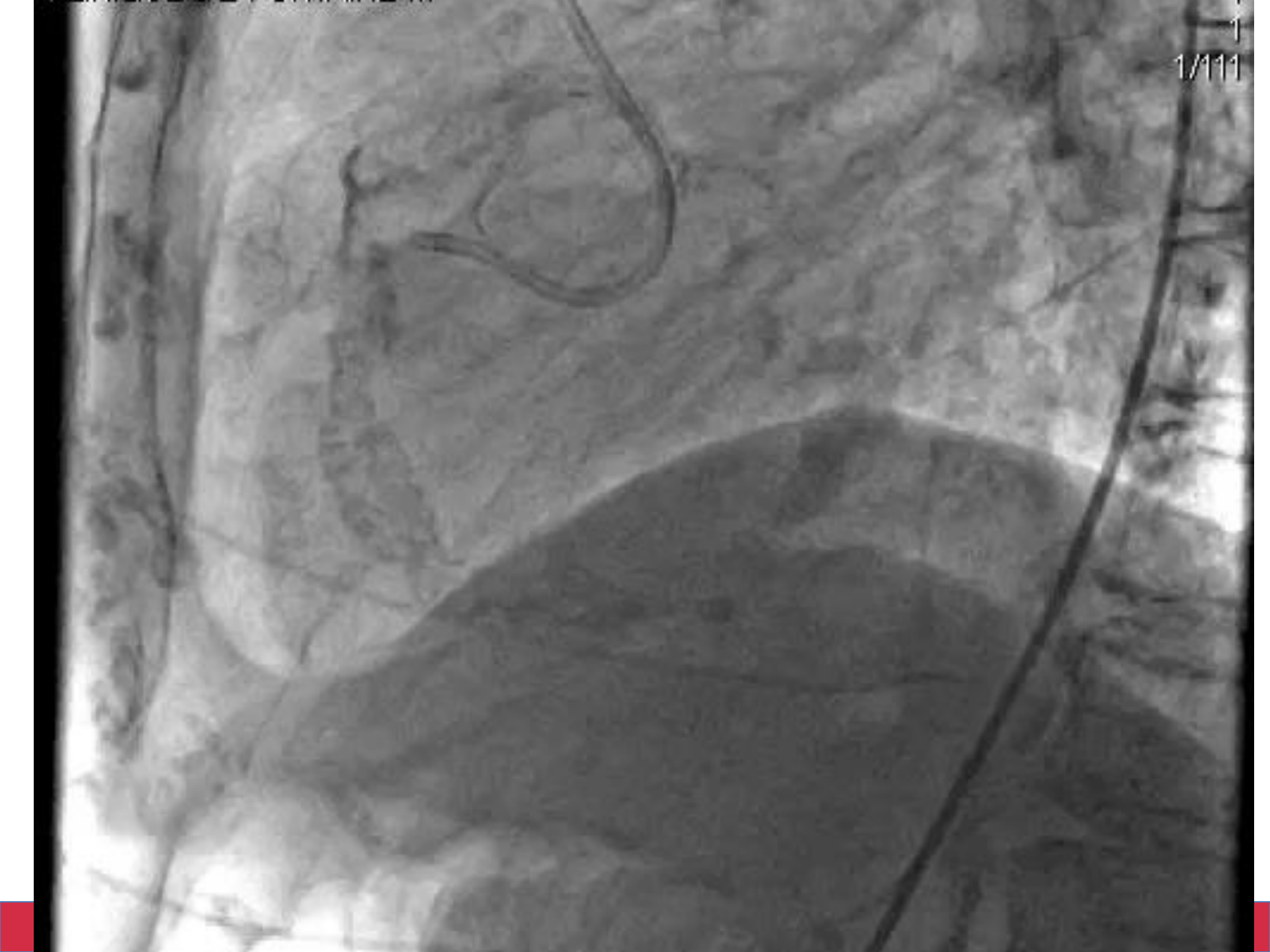


3

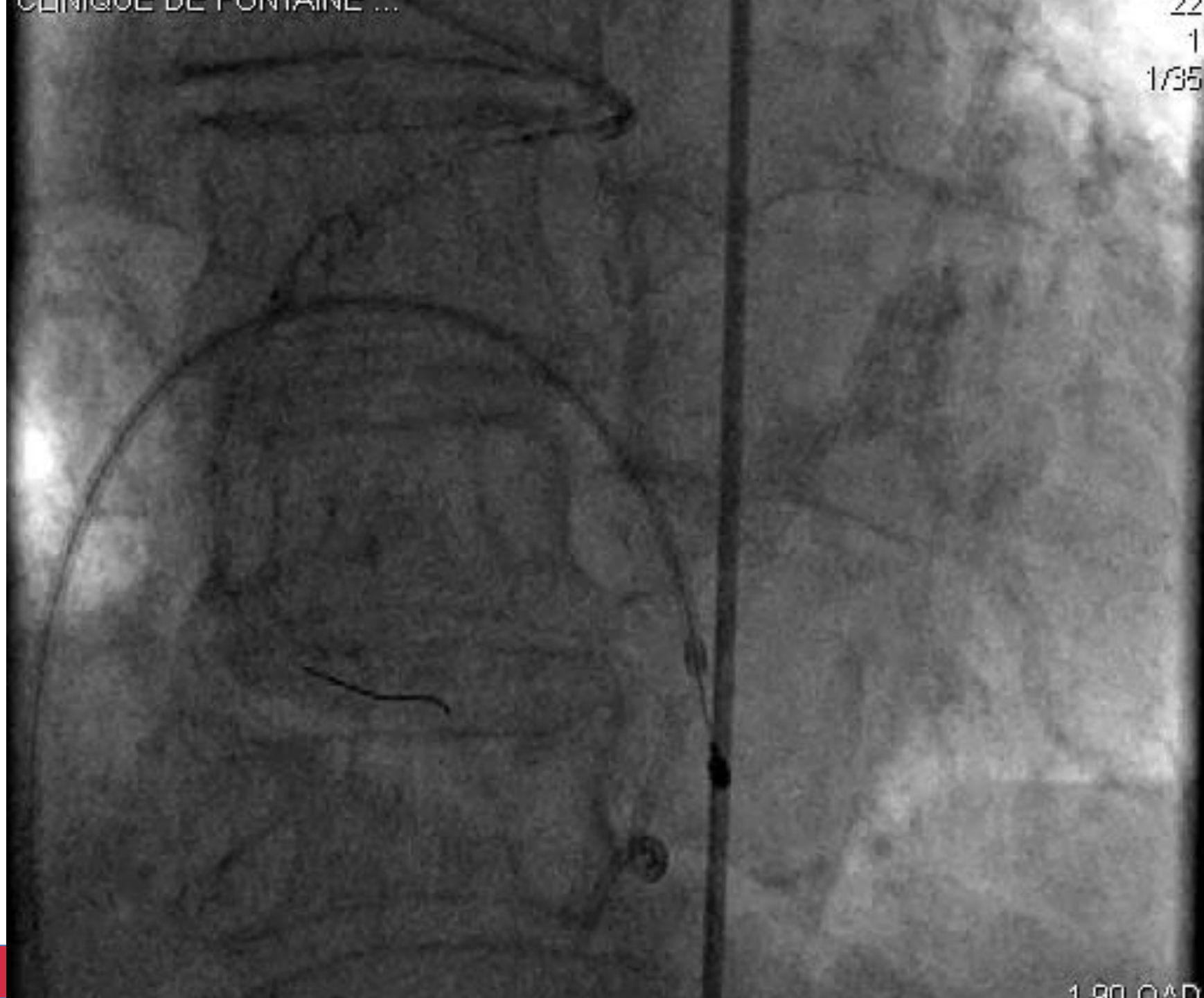
- ✓ Fraisage sur le guide.....
- ✓ Technique de retrait de fraise bloquée : avant de tirer, amener un cathéter type Guidzilla au contact
- ✓ La fuite responsable de tamponnade est peut être rétrograde...

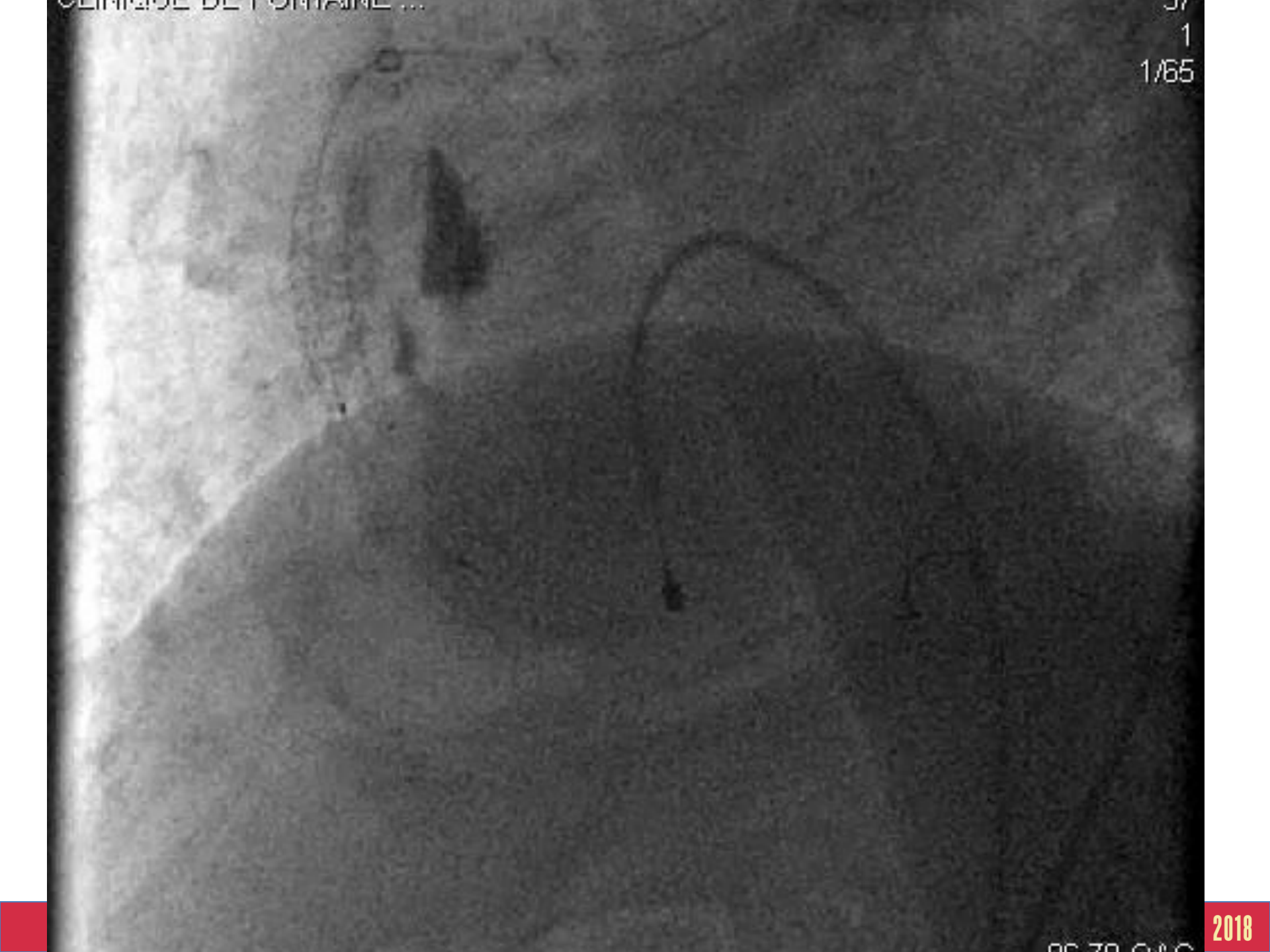
4

FRAISAGE de taille suffisante?









4

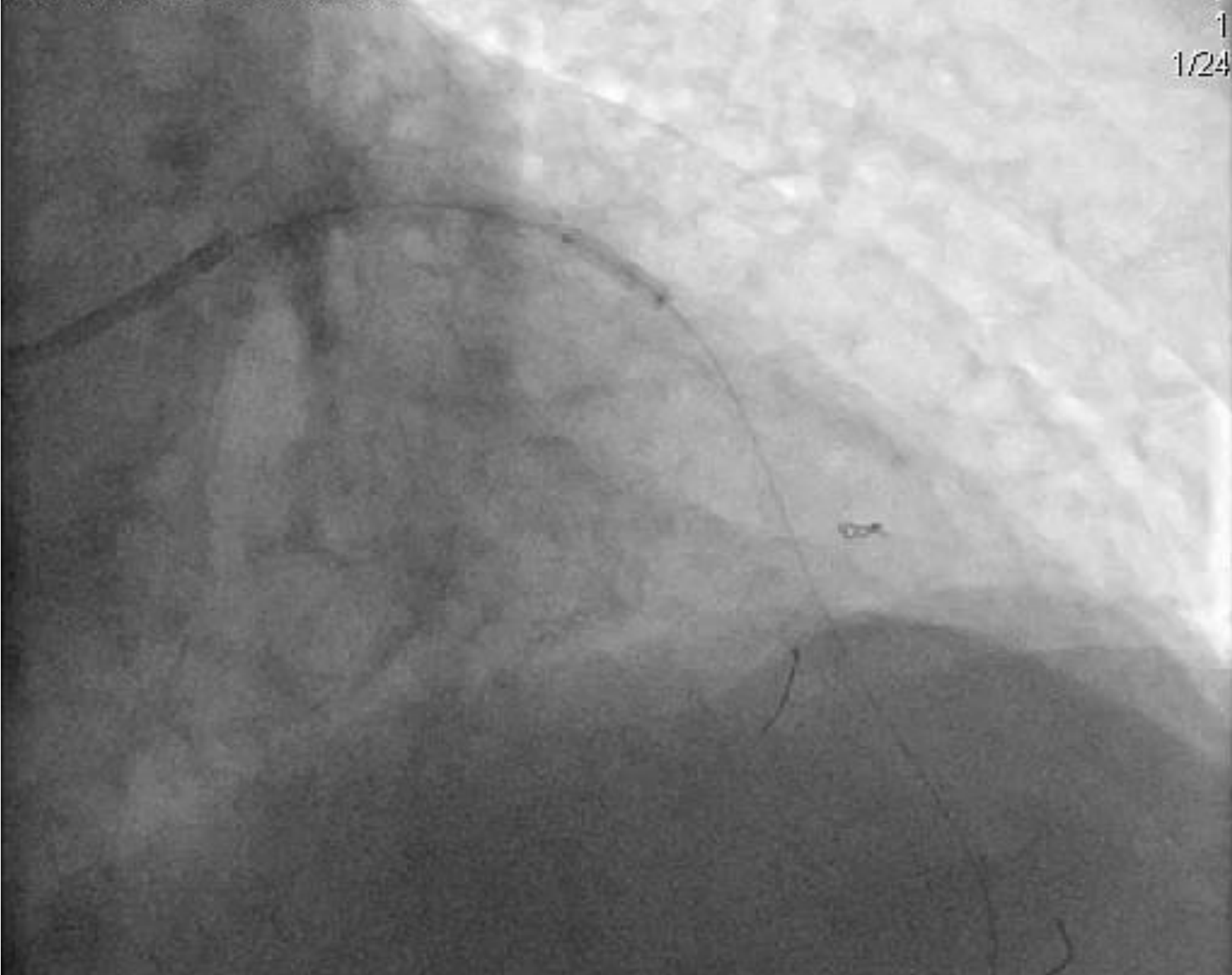
- ✓ Fraise finale de calibre cohérent avec le diamètre de l'artère traitée
- ✓ Optimisation oui, mais jusqu'à quel point?
- ✓ Tt médical ?
Prudence chez les Nonagénaires....

5

Ou est le guide?



28.40 OAD
24.60 CRA



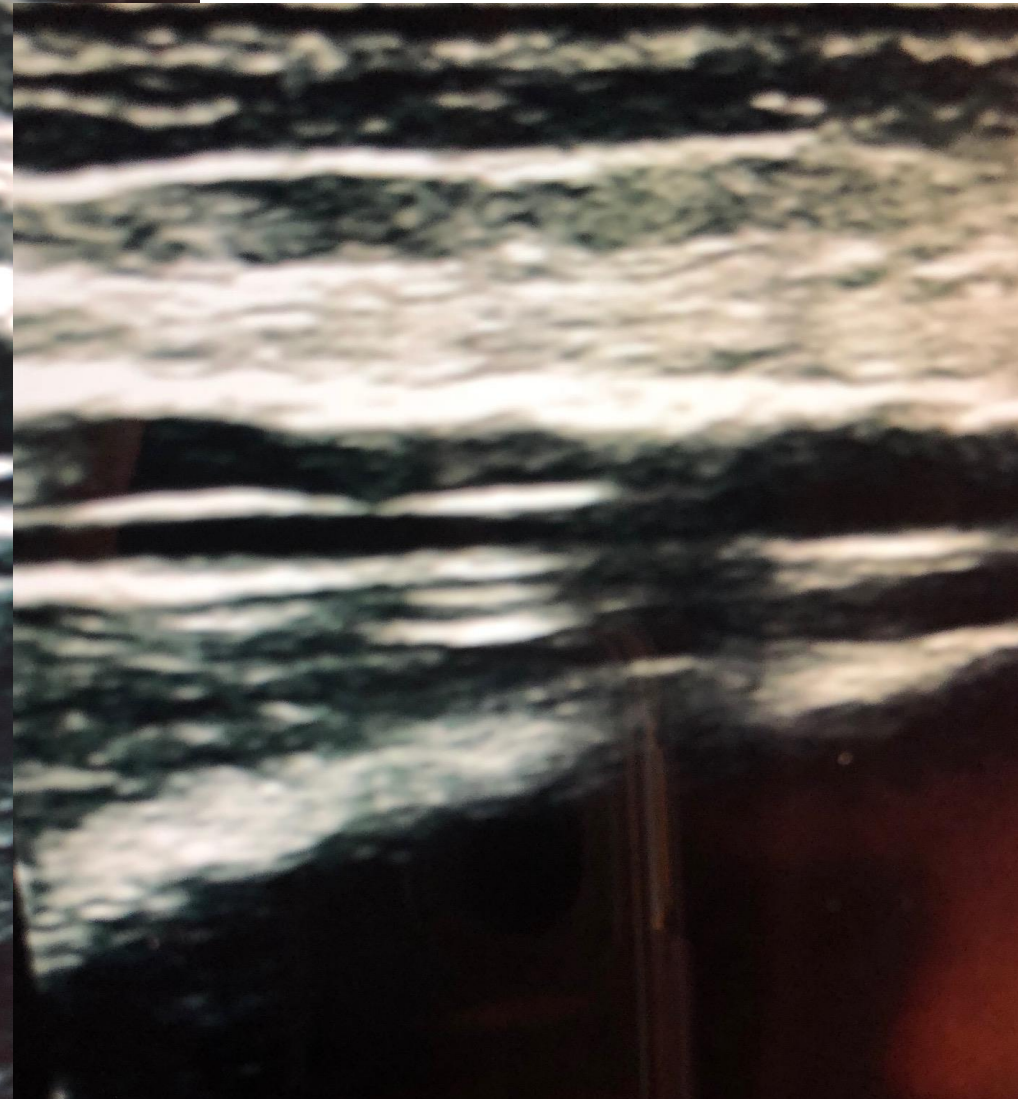
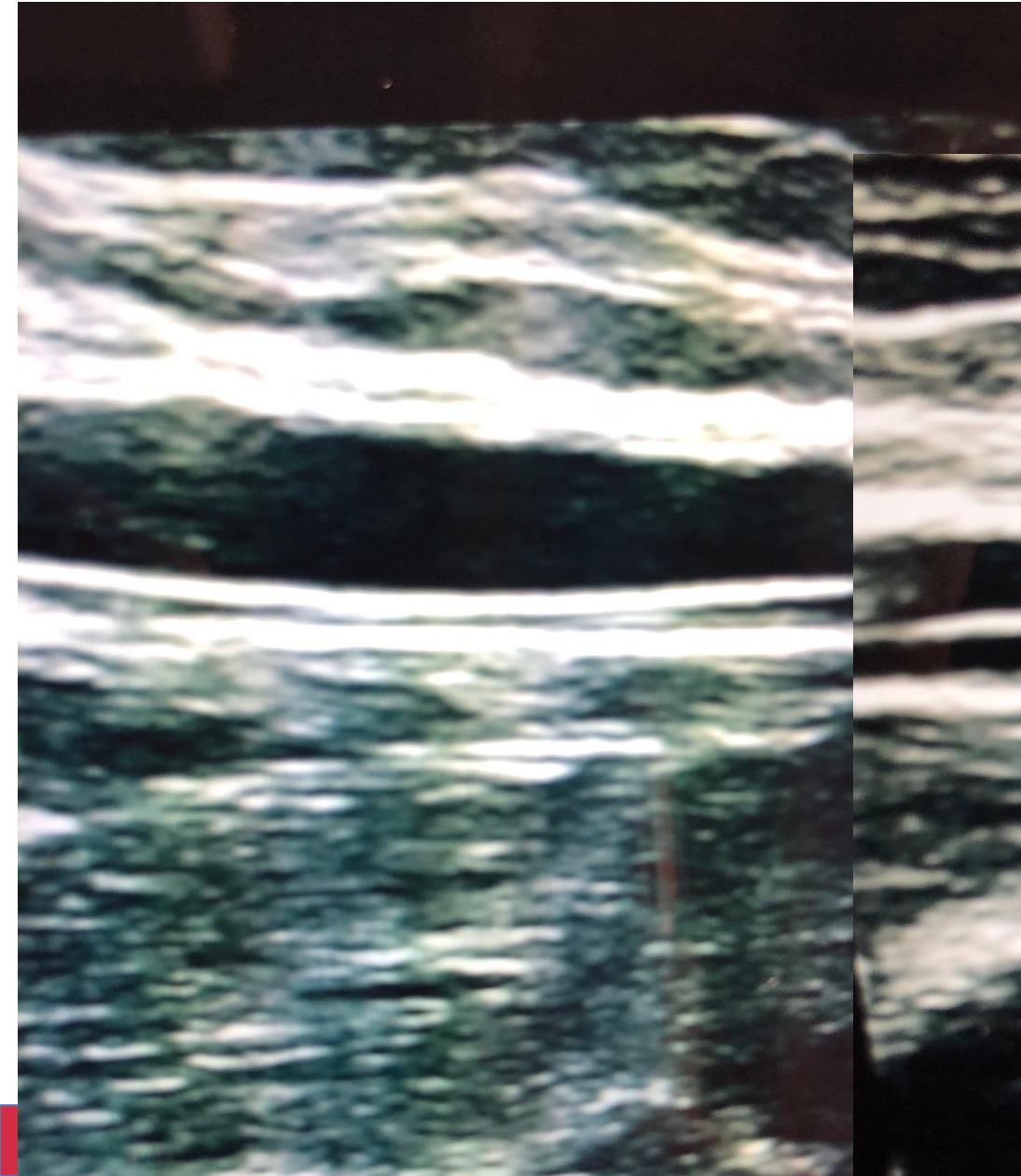




6

- ✓ Ne pas laisser de guide 'trappé' en distalité, léger retrait immédiat sur un guide trop distal
- ✓ Ne pas s'arrêter en si bon chemin ??!!

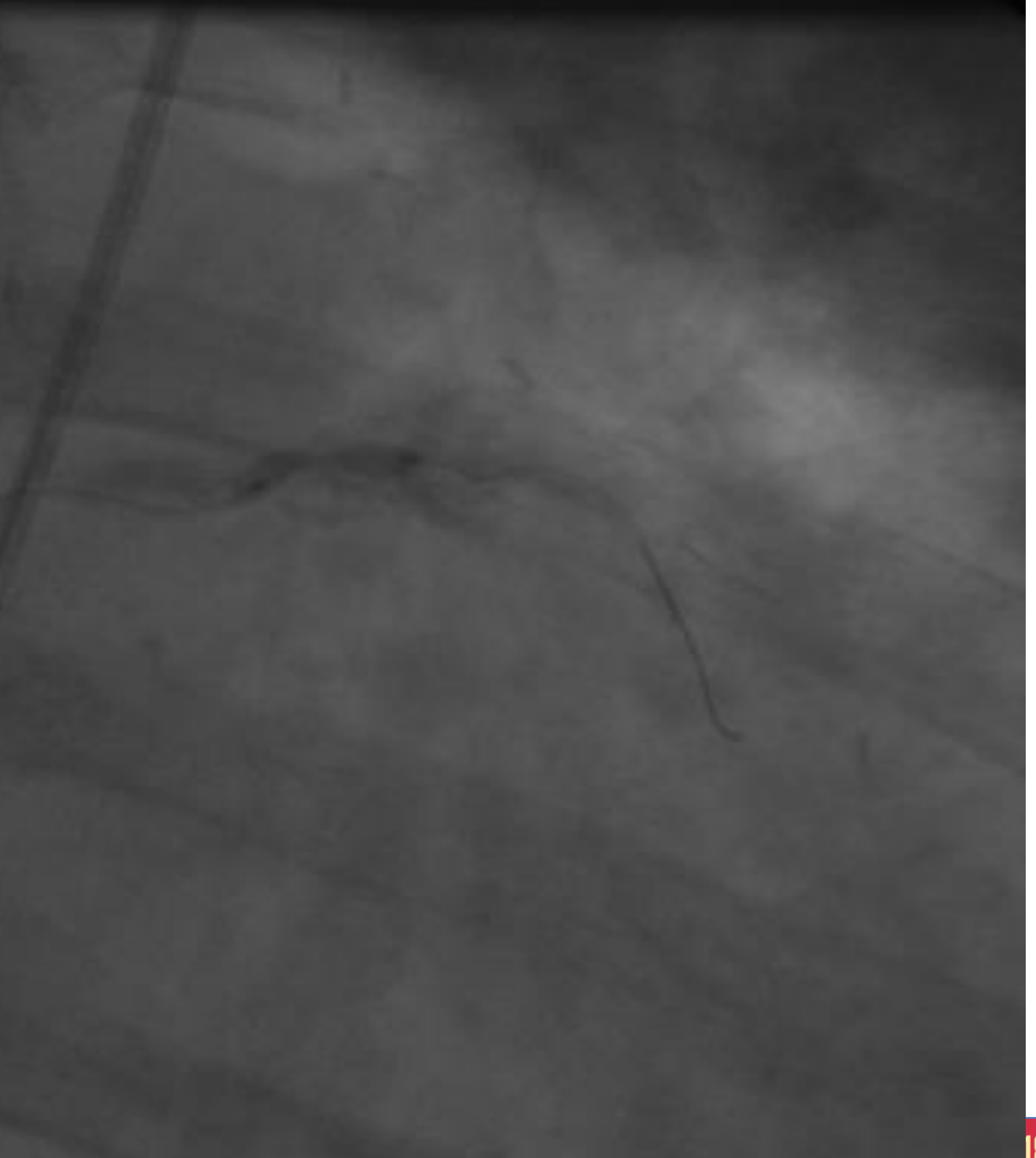
Ou est le guide?



6

De quoi est entourée la lésion ?

Handwritten cursive letters: D, d, f, k, A, a



Handwritten cursive letters: P, p, f, F, k, K.

Faint, illegible handwriting on a grid background.

Handwritten text in a cursive script, possibly a signature or name, enclosed in a rounded rectangular border. The text is oriented vertically and appears to read "D. J. H. K." or similar characters.

Handwritten text in a cursive script, possibly a signature or name, located in the lower right quadrant of the page.



6

Angle supérieur à 90° immédiatement en amont de la lésion à traiter :

- ✓ Contre indication relative au Rota?
- ✓ Retrait moins important de la fraise pour le 'picorage'

Le 'Pire' du Rotablator

Conclusion

- ✓ Identifier immédiatement une 'sortie de guide '
- ✓ Fraisage adapté aux 'Lésions en tandem'

Conclusion 2

- ✓ Un 'fraisage' ne protège pas en lui seul des excès d'optimisation
- ✓ 'Guide trappé' 'guide cassé' ('guide laissé')
- ✓ Angulation 90° ou plus immédiatement avant la lésion = perforation

Le Rota ?

'c'est pas si pire' que ça!

Philippe Brunel 2018

DÉCLARATION DE LIENS D'INTÉRÊT AVEC LA PRÉSENTATION

Intervenant : Philippe BRUNEL, Dijon

Je déclare les liens d'intérêt suivants :

Honoraires : boston, BSCI

**"la seule chose exacte
dans le journal, c'est la date"**

Coluche

