

CARDIO  
RUN  
2024

16<sup>ème</sup> CONGRÈS DE PATHOLOGIE  
CARDIO-VASCULAIRE

18-19-20 SEPTEMBRE 2024

Hôtel Saint Alexis ILE DE LA RÉUNION France



CARDIORUN.ORG

# Cas clinique : IVUS

Jean-Charles SPYCHAJ

Hopital Européen Marseille

# Clinique

Patient 48 ans

SAU : précordiales spontanée

ACR :

- No flow 0'
- RCP 40'

FV/asystolie

6 CEE + 20 mg adré

Thrombolyse de sauvetage



# Post RCP

Hémodynamique précaire

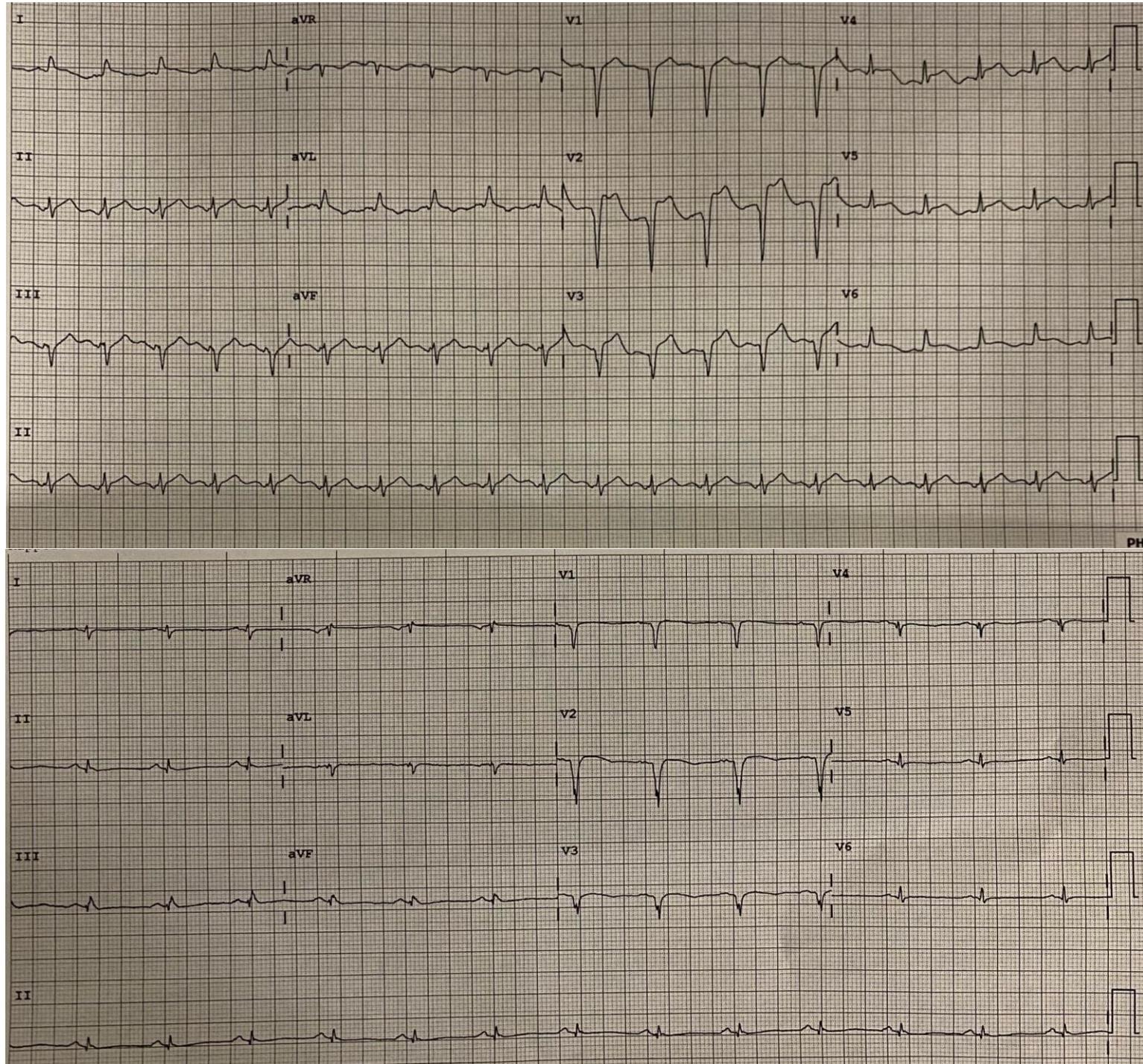
ECG amélioration

ETT : FEVG 30%

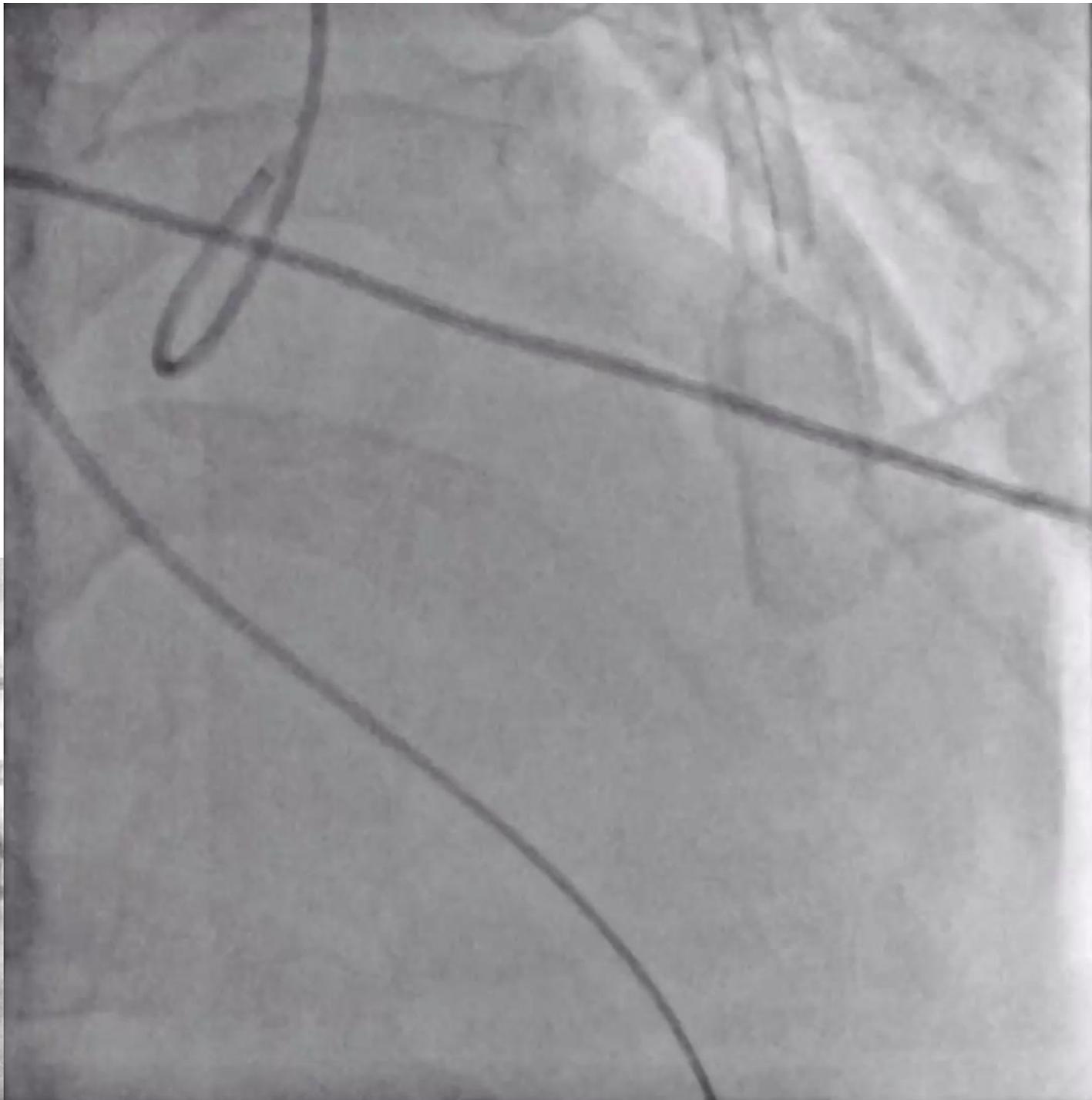
SIRS

IRA : créat 240  $\mu$ M

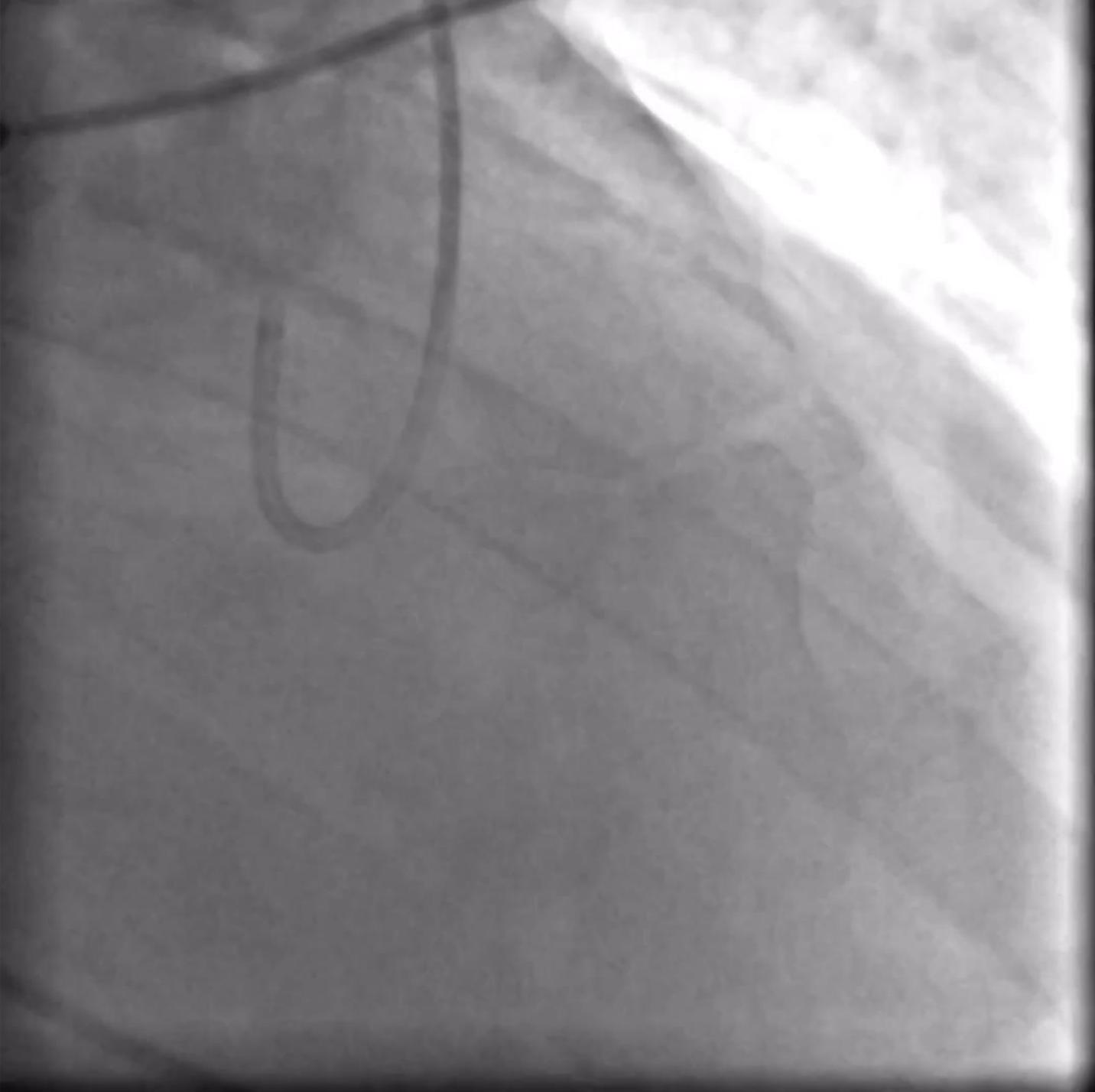
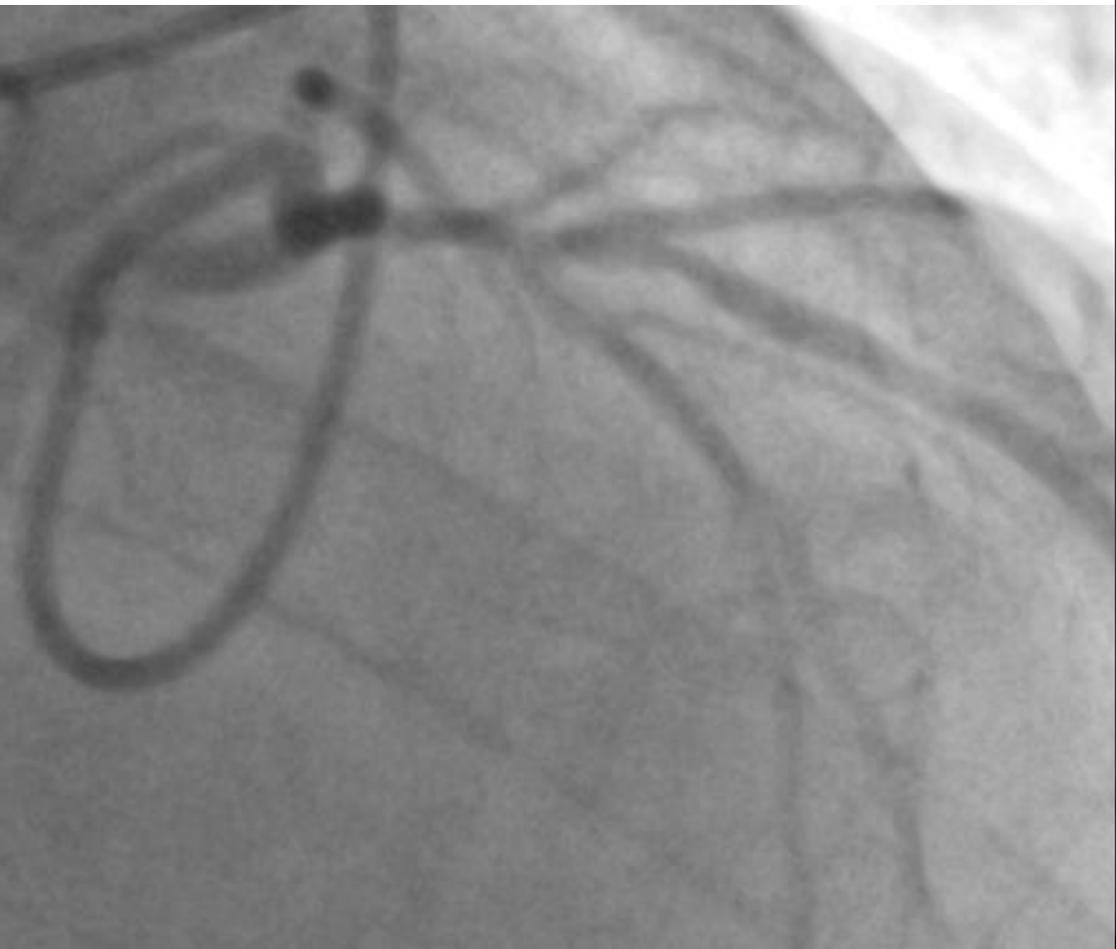
Allo Coro à H+12



# Coronarographie

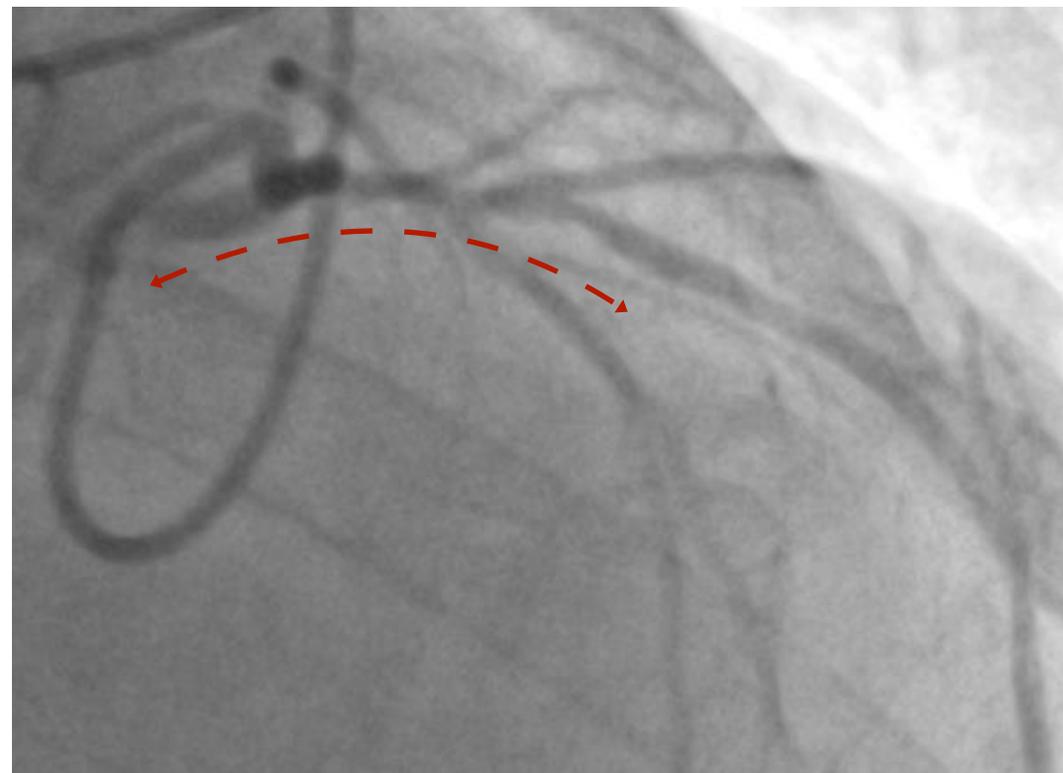
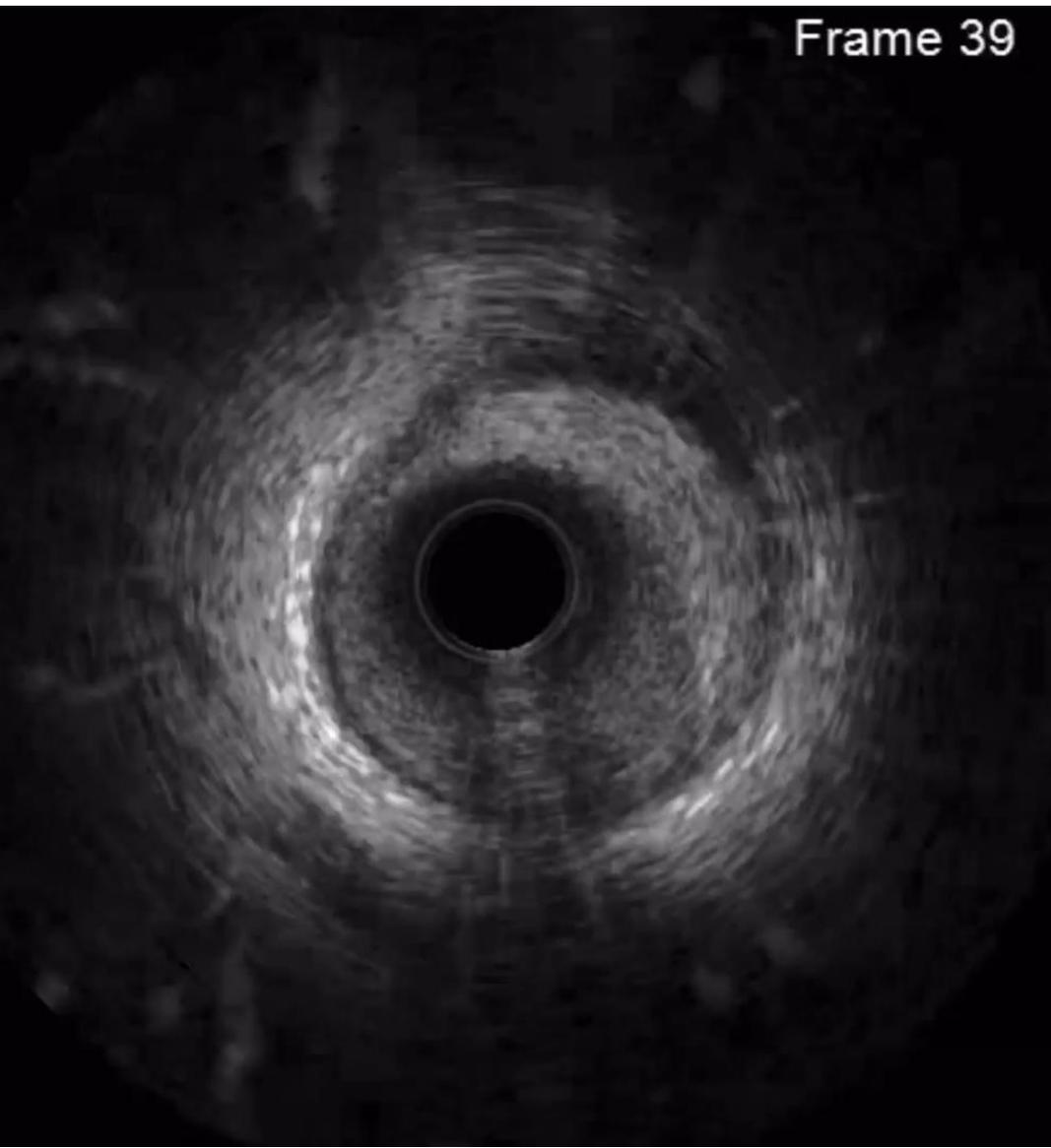


IVA ostio-prox ?

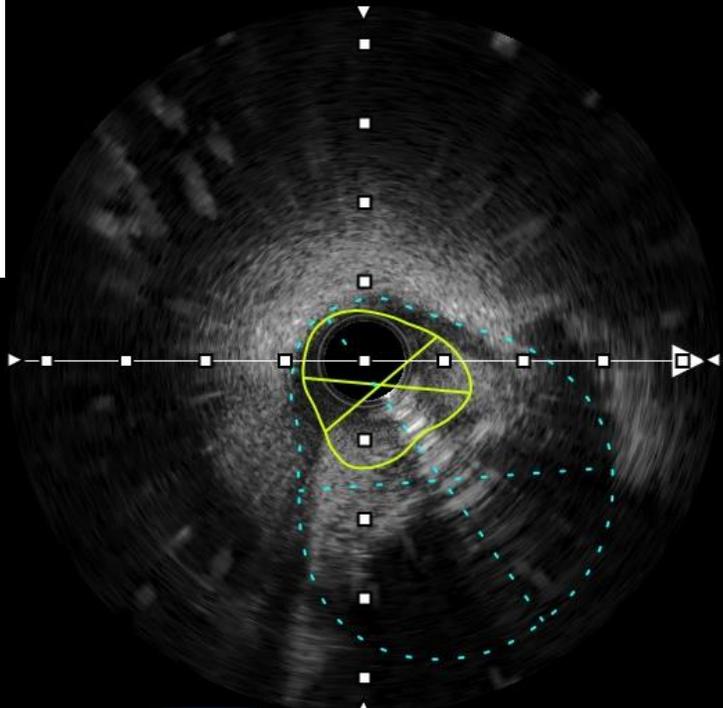
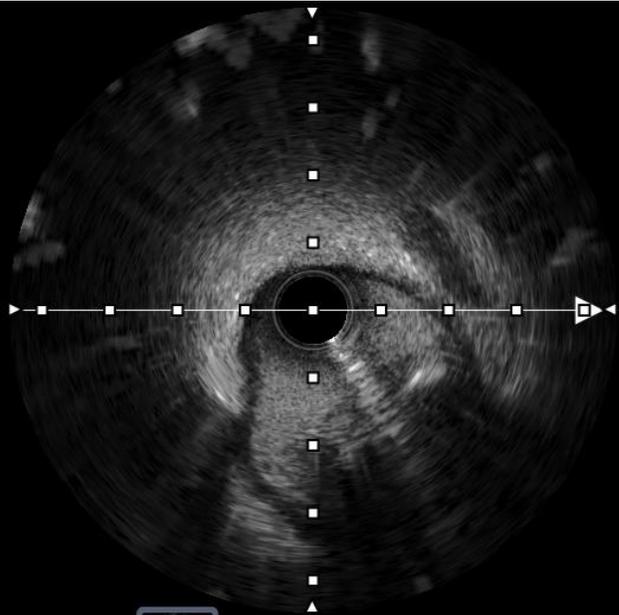


# IVUS 1

Frame 39



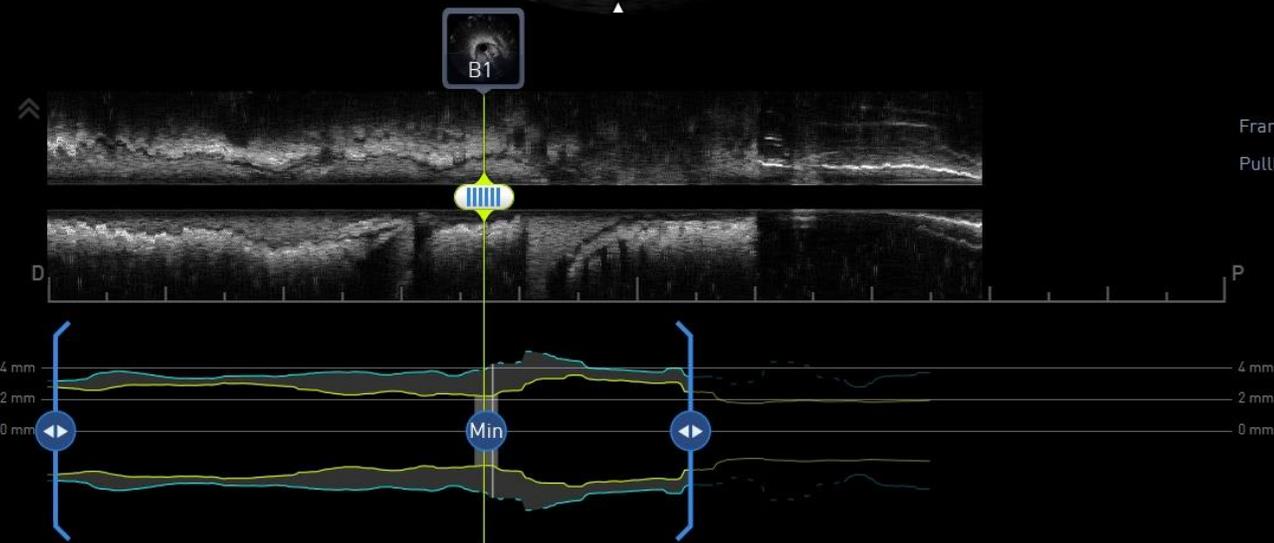
# IVUS 1



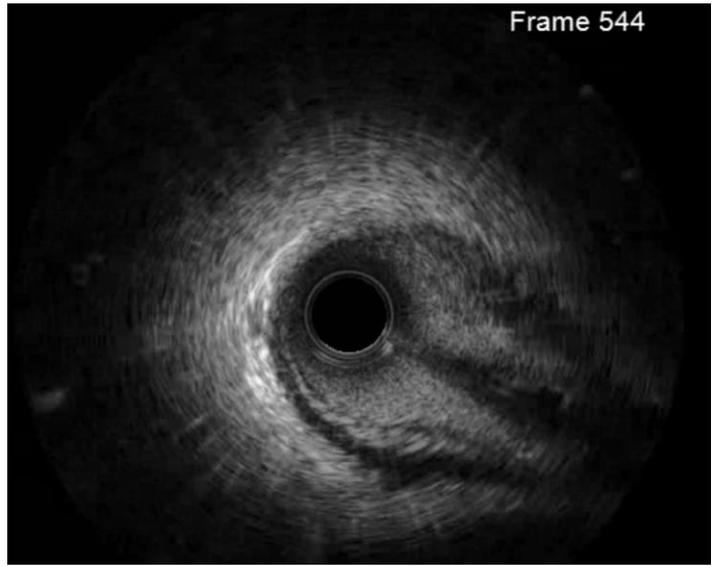
2.98<sup>AREA</sup>  
mm<sup>2</sup>  
1.85<sub>mm</sub>  
2.11<sub>mm</sub>

14.44<sup>AREA</sup>  
mm<sup>2</sup>  
3.95<sub>mm</sub>  
4.76<sub>mm</sub>

Plaque  
79%

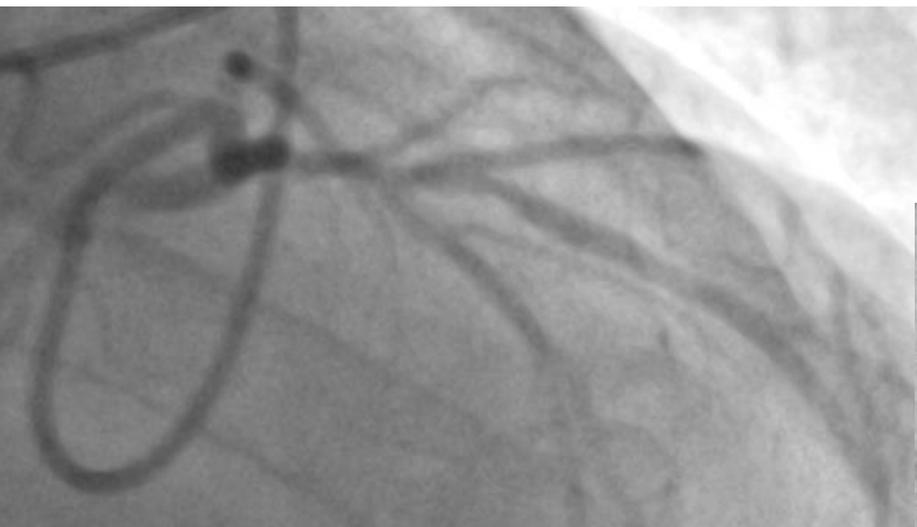
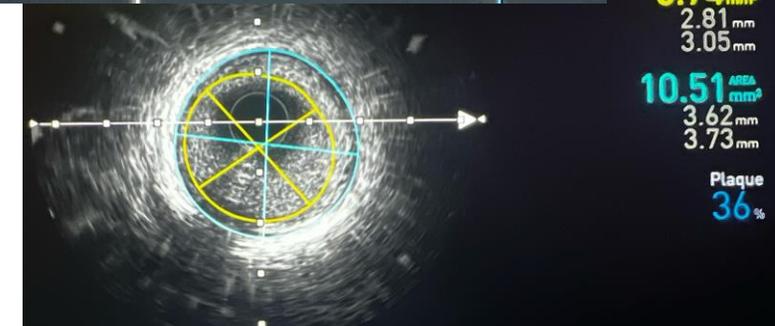
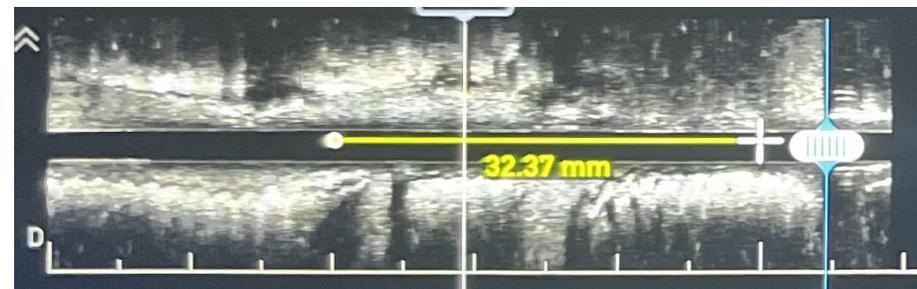


Frame 371  
Pullback 37.1 mm

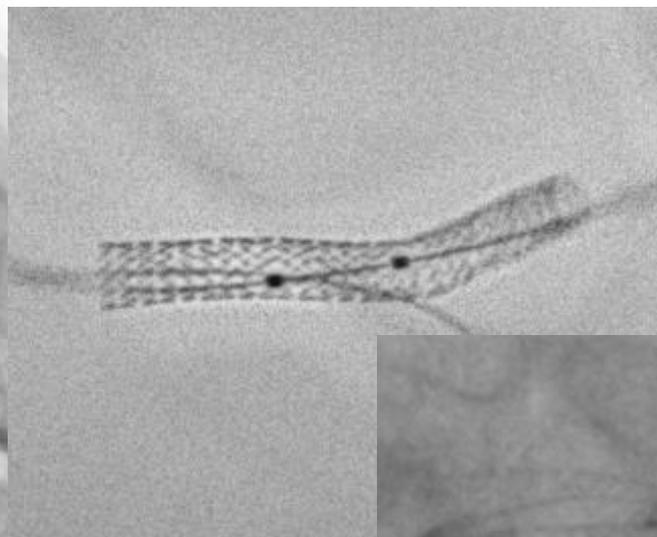


Ostium TCG

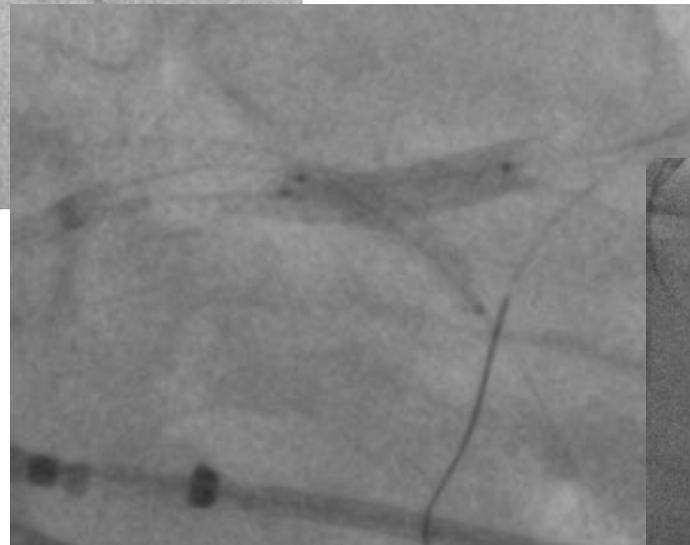
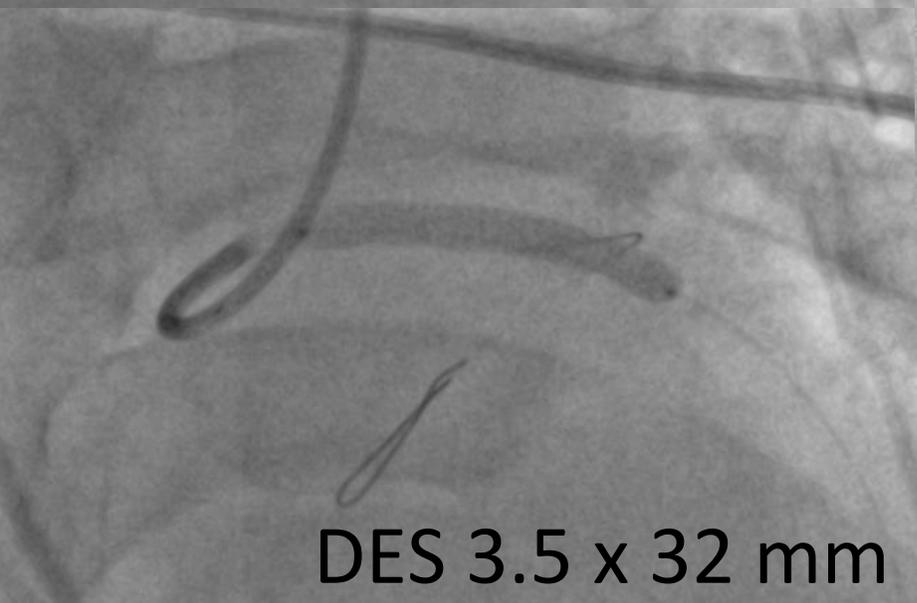
# Angioplastie TCG



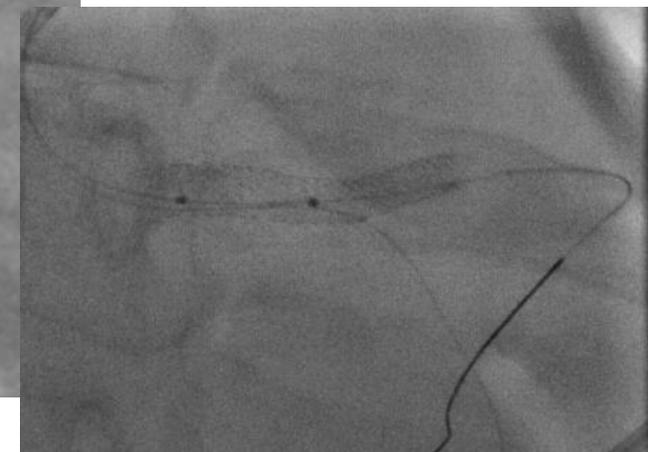
POT 4.5 NC



Kissing balloon



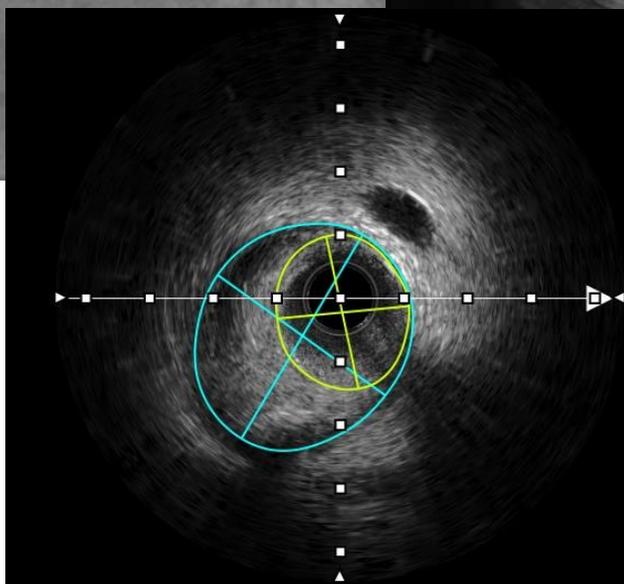
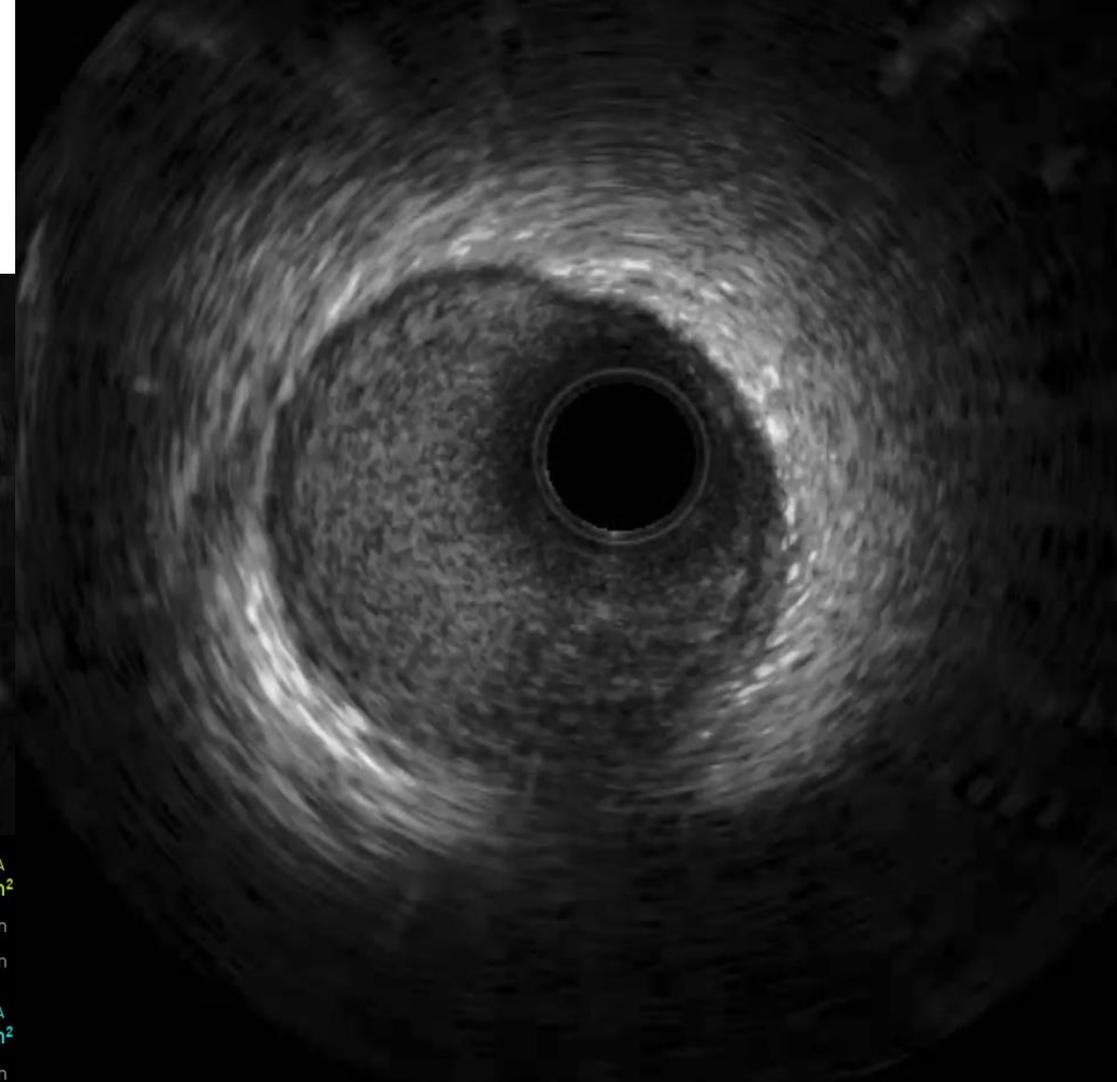
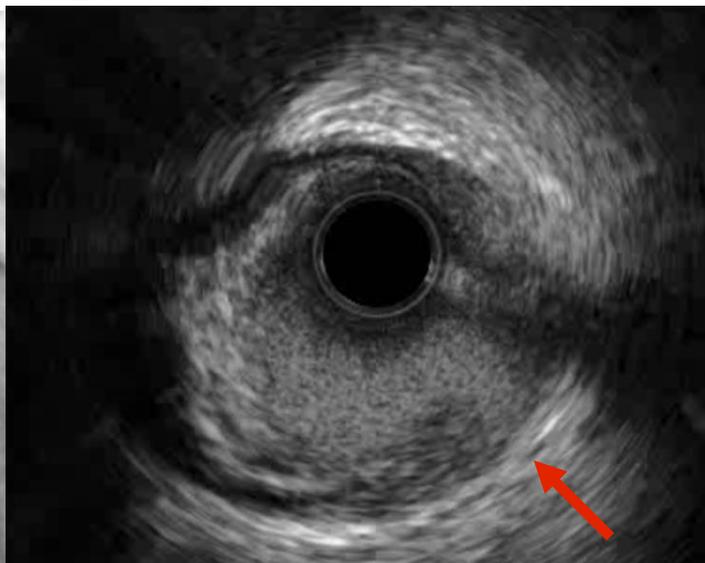
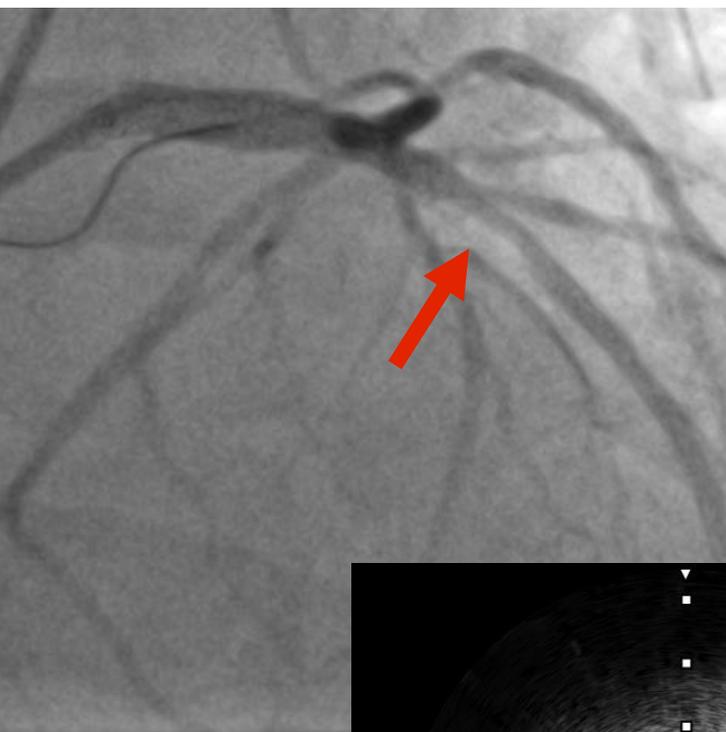
rePOT



# Angiographie post ATC



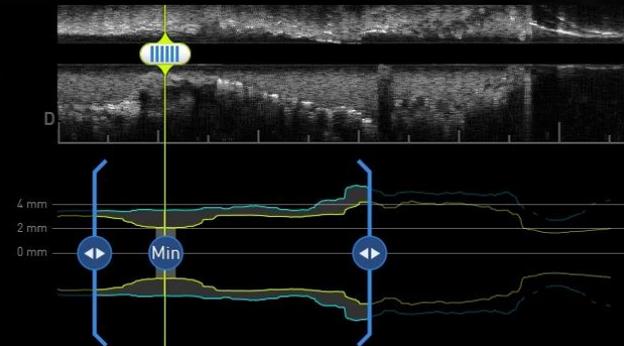
# IVUS post angioplastie



4.00<sup>AREA</sup>  
mm<sup>2</sup>  
2.08 mm  
2.46 mm

9.53<sup>AREA</sup>  
mm<sup>2</sup>  
3.25 mm  
3.74 mm

Plaque  
58%



# Contrôle angiographique J10



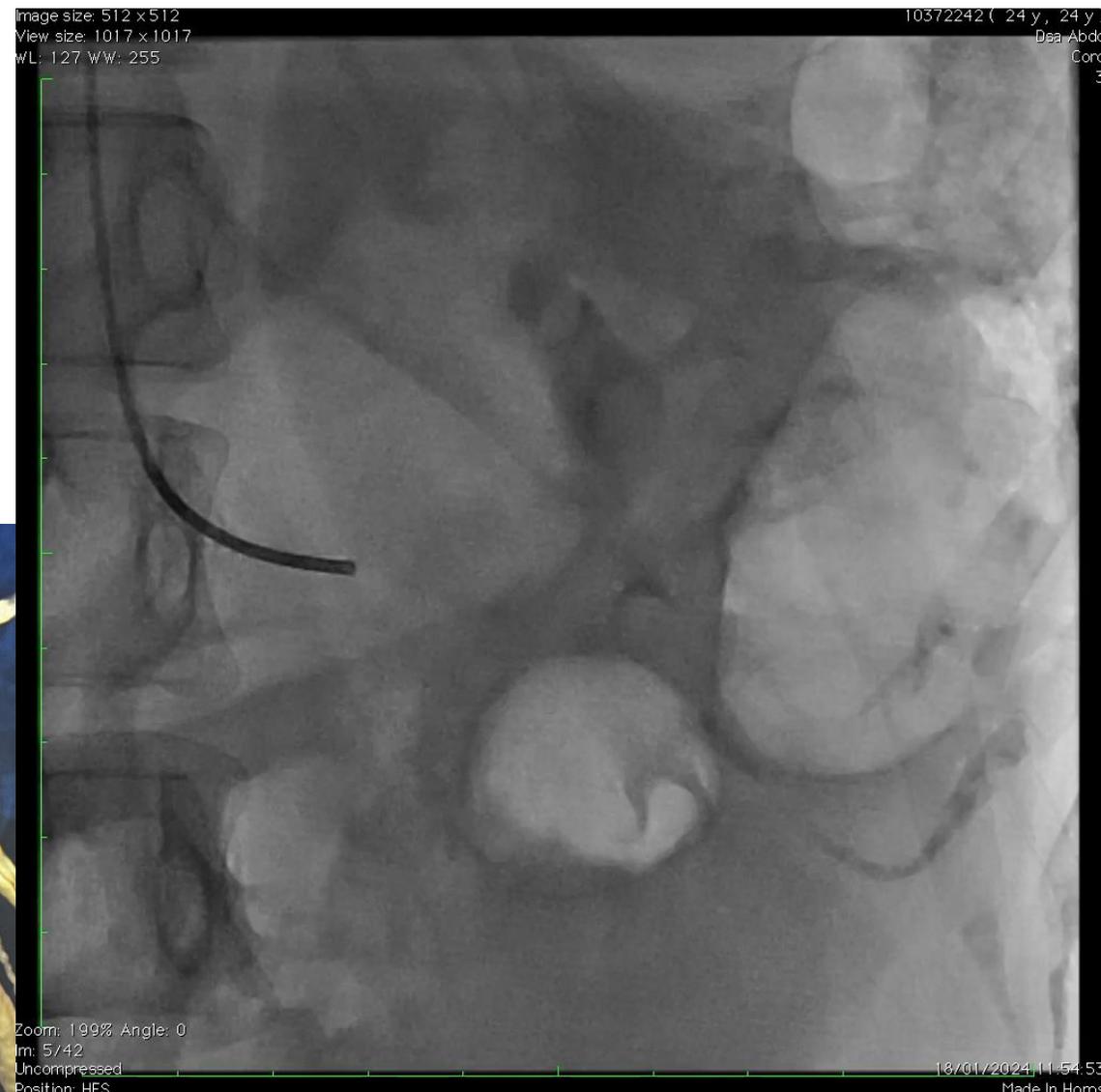
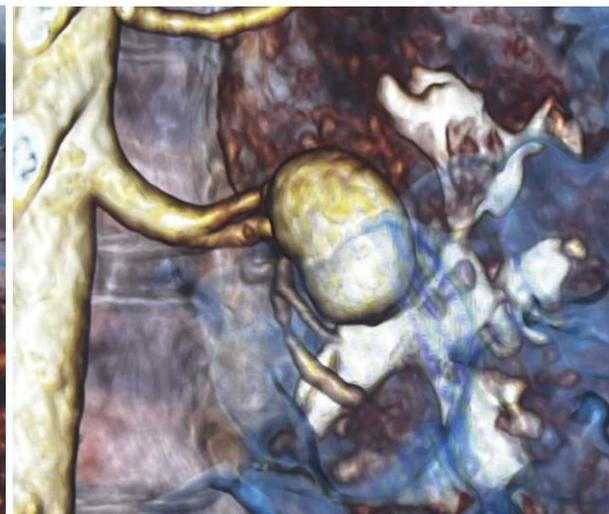
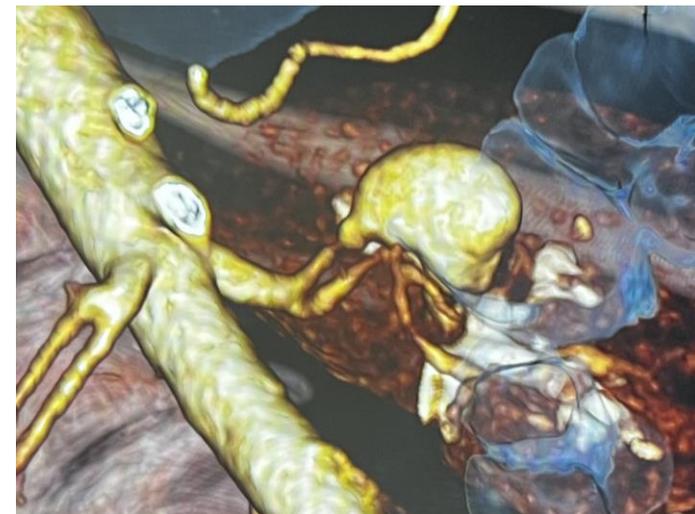
- Sevré d'amines
- FEVg 45%
- Neuro OK
- DFG normalisé

# Utilité IVUS

- Diagnostic
  - Sévérité de lésion IVA
  - Vulnérabilité lésion (thrombus)
- Thérapeutique
  - Pré ATC : diamètres, longueurs ...
  - Post ATC : apposition, expansion, lésion résiduelle, dissection ...
- Low contrast PCI



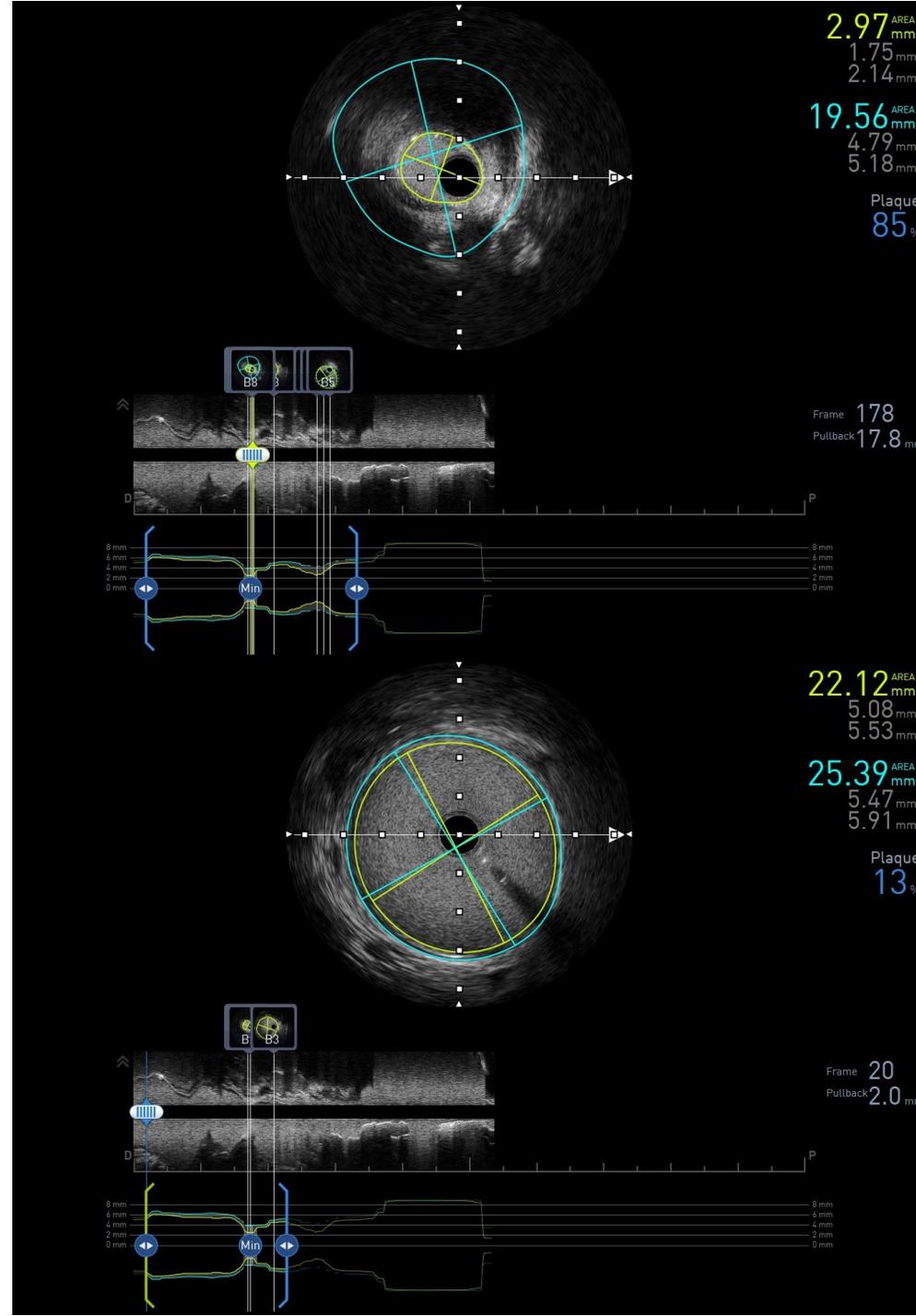
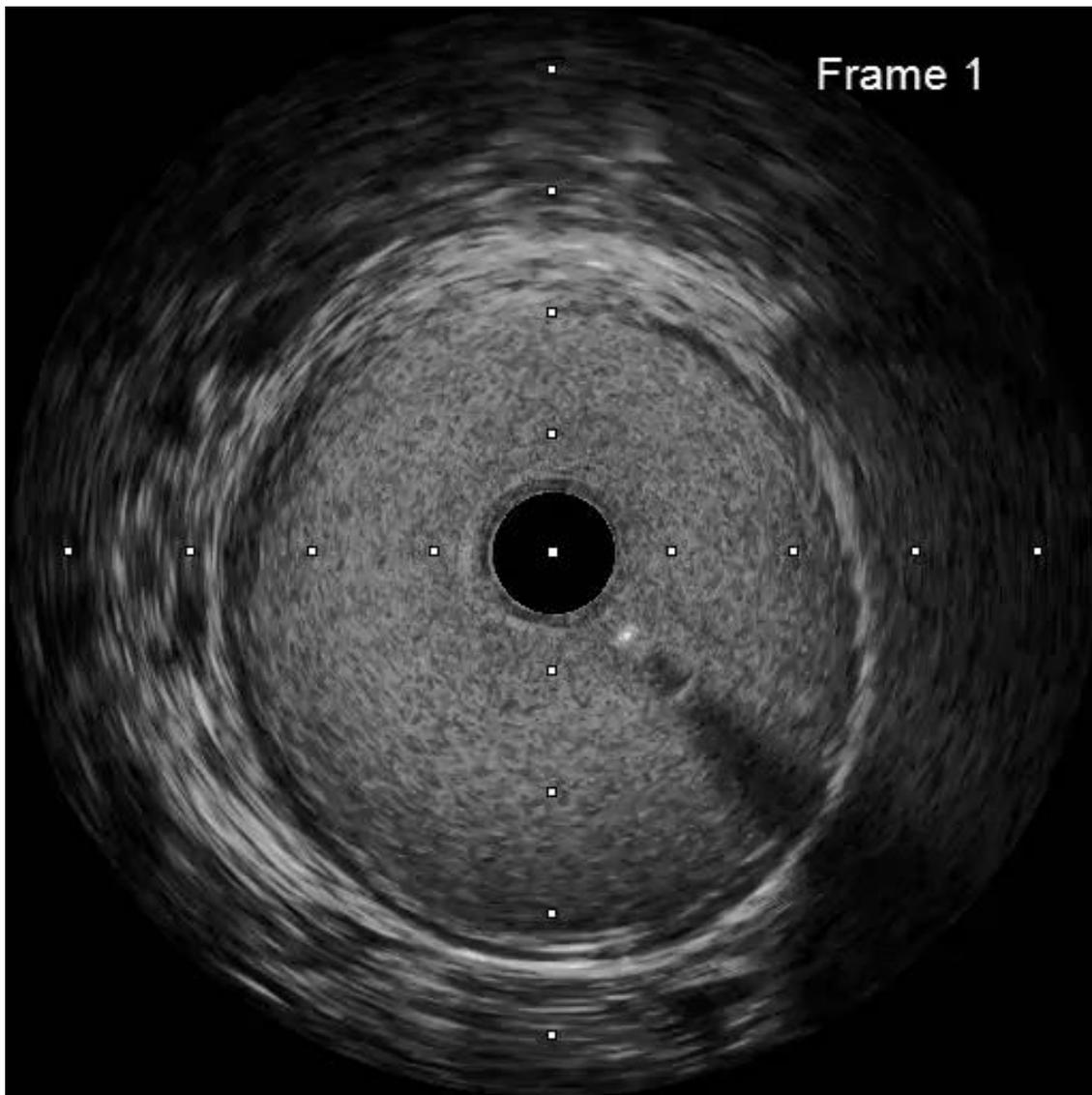
# IVUS en Coro mais aussi ....



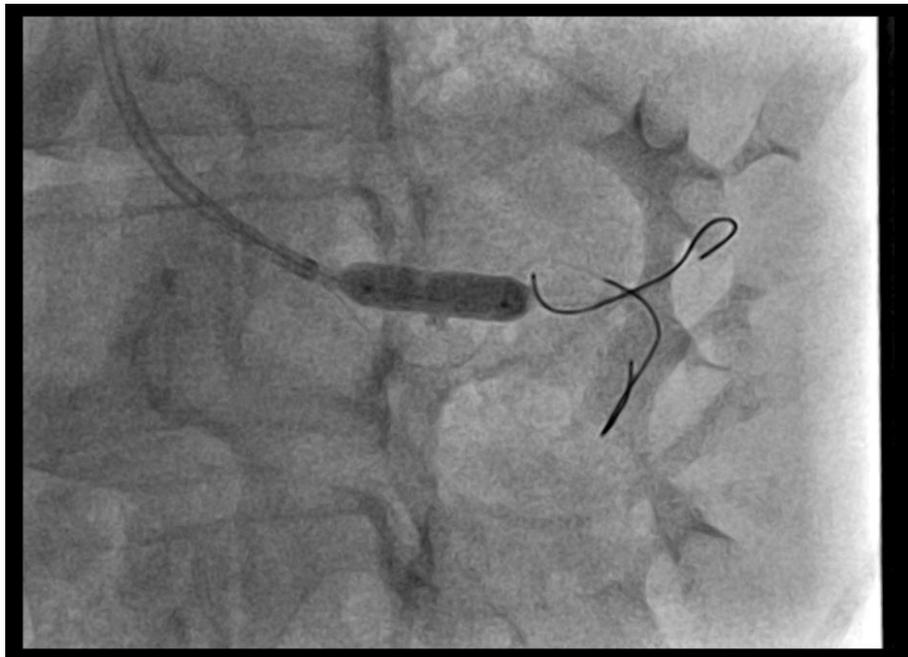
# Sténose résiduelle post chirurgie



# Help IVUS



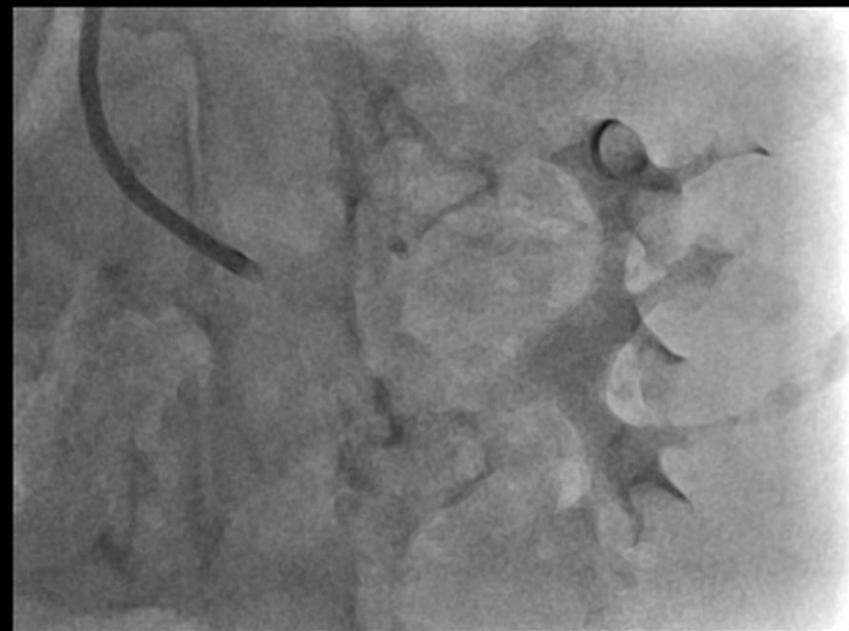
# Angioplastie percutanée



Guide 0.014 Spartacore  
Ballon 6.0 x 15 mm NC

Image size: 512 x 512  
View size: 1234 x 1234  
WL: 127 WW: 255

10372242 ( 24 y , 24 y )  
Coronarographie  
Coro Très FD  
14

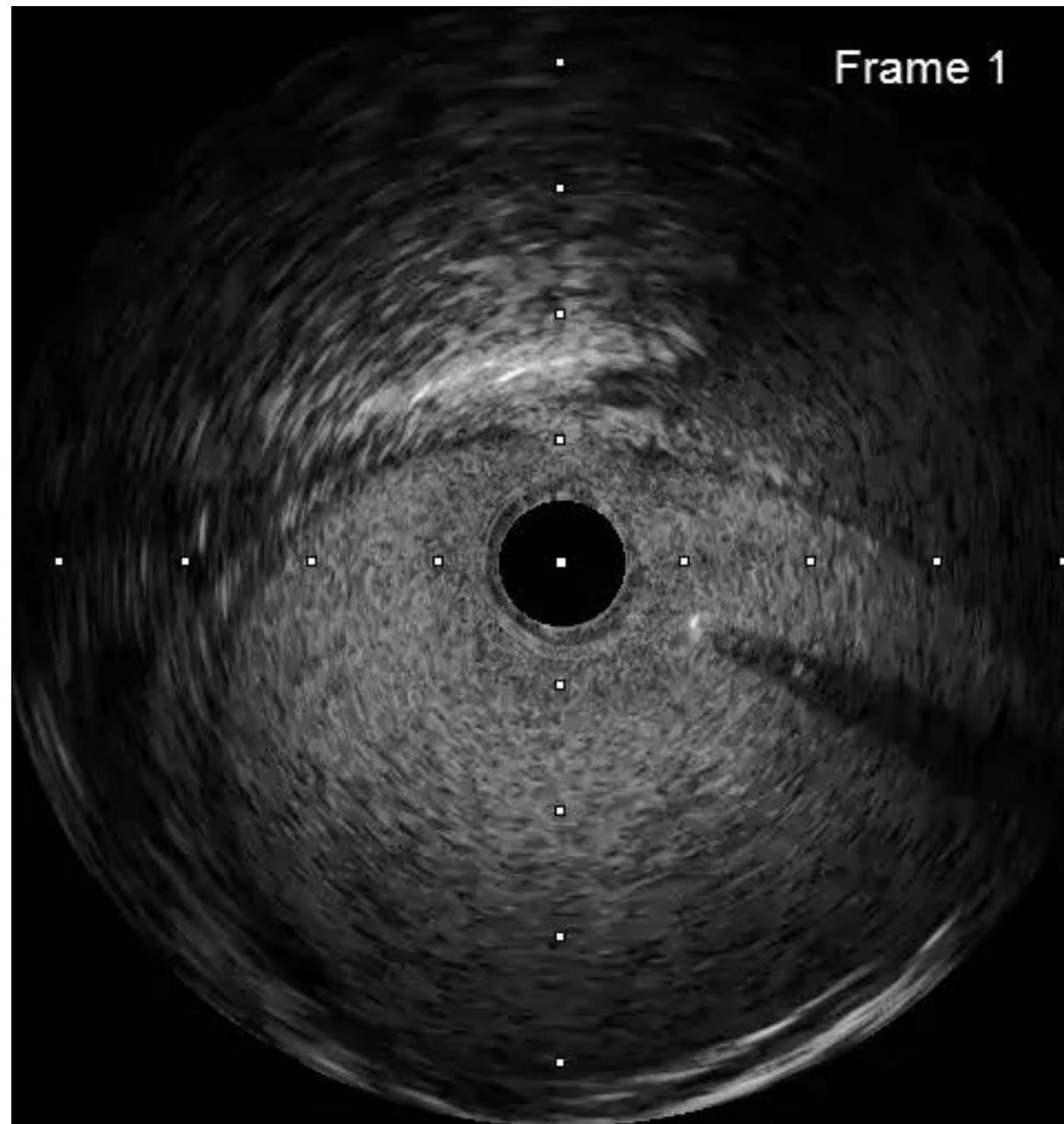
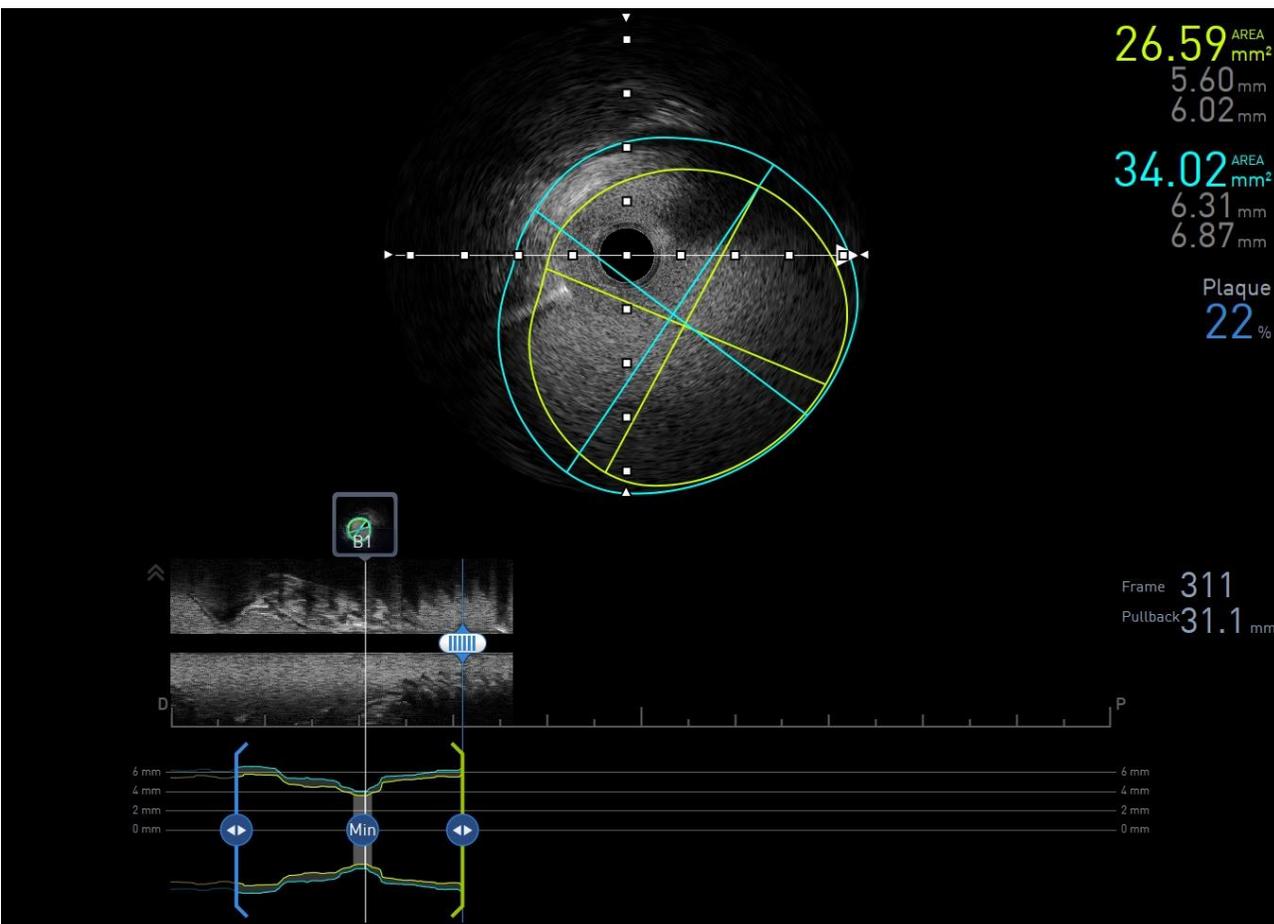


Zoom: 241% Angle: 0  
Im: 1/24  
Uncompressed  
Position: HFS

07/08/2024 11:37:43

Made In Horos

# Contrôle IVUS post ATP



# Conclusion IVUS

- Aide diagnostique
  - Sévérité, composition, vulnérabilité, quantification calcifications
  - Ambiguïté anatomique
- Aide thérapeutique
  - Pre-PCI : diamètre, longueur, landing zone...
  - Post-PCI : expansion, apposition, dissection de bord
- Low contrast PCI

**ESC 2024 IA** : imagerie endocoronaire - angioplastie des lésions complexes (TCG, bifurcations, lésion longue ...)

