

Angor post-accouchement: Vive le BVS !

M Godin, R Koning, J Berland

Rouen, FRANCE

Clinical case

Nov 2014:

- **25 Years old female**
- Medical history: hypertension, systemic lupus erythematosus, vaginal delivery of a preterm baby 2 months ago
- Cardiovascular risk factor: smoking
- chest pain since 03 weeks intermittently
- EKG: sous epicardial ischemia V1-V4 , D1 AVL
- Echocardiography: Left ventricular apical hypokinesia, normal pericardium
- Biology: troponine+

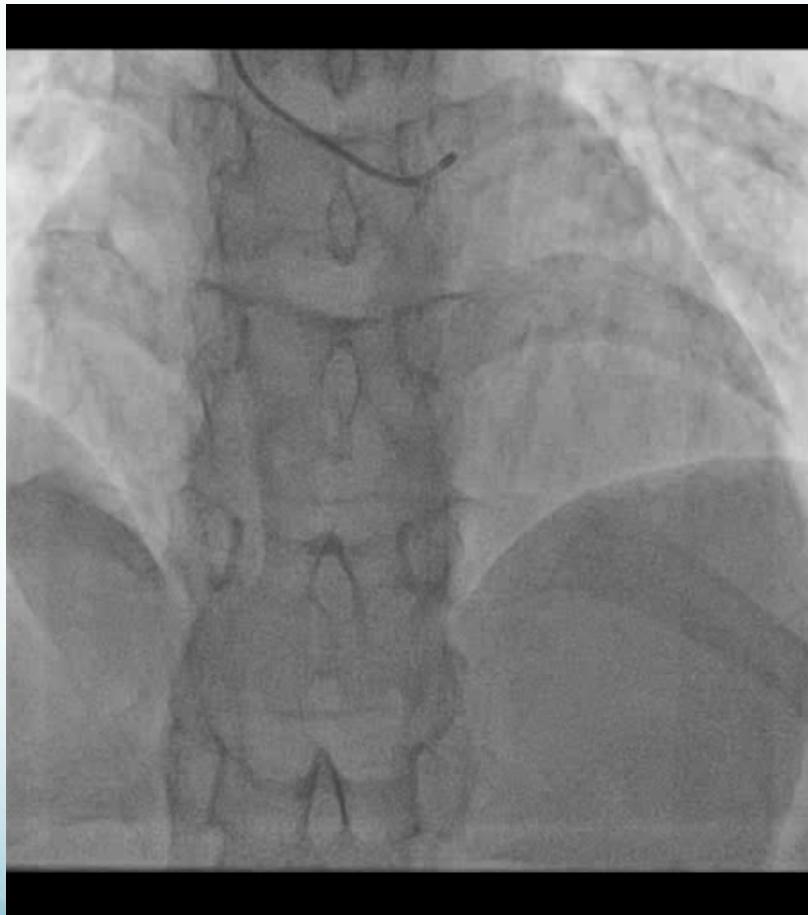


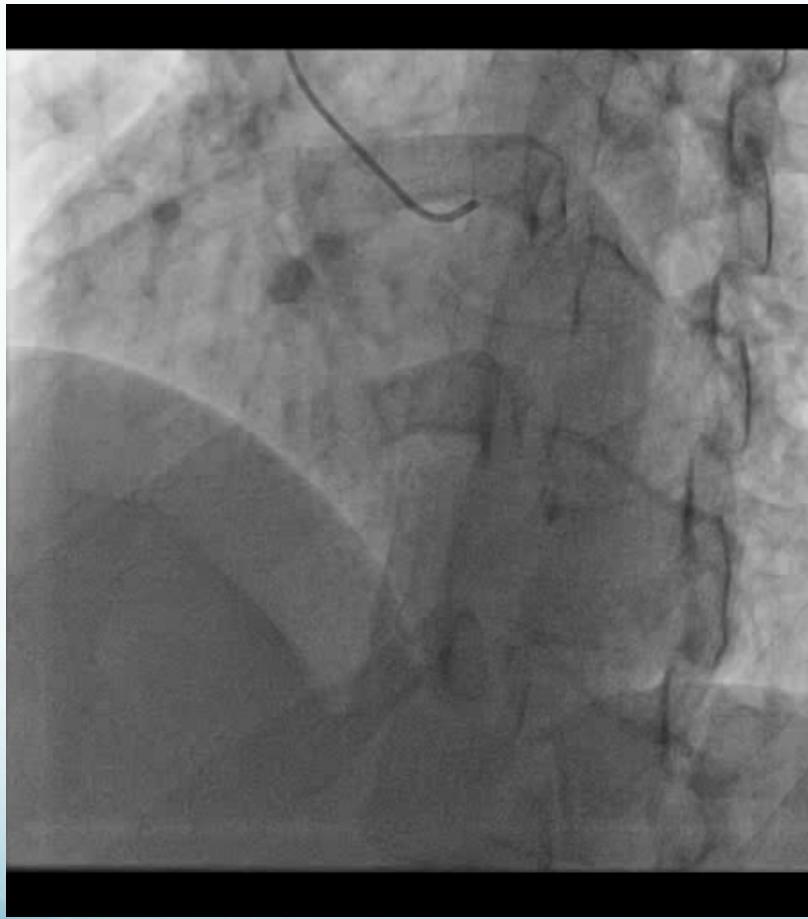
DISCO

P. MOTREFF
(Clermont)

Fondation Cœur & Recherche

Etude de la prévalence de la dysplasie fibromusculaire chez des patients pris en charge pour hématome ou **DIS**section **C**oronaire spontanée





Strategy proposed:

- OCT examination pre dilatation was advised to characterize the lesion: in a young post pregnant patient dissection or vessel haematoma were suspected .
- Balloon inflation pre-stenting if necessary then BVS implantation followed by non compliant balloon post dilatation according to OCT results.

Consensual and appropriate indications

Ideal patient for BVS

- Diffuse disease of LAD requiring long stents
- Diffuse disease of any vessel 2.5 mm or larger requiring long stents
- Any lesion in a young patient
- Any lesion suitable for BVS

A.Latib,... A.Colombo
Minerva Cardiologia 2014

1. Young patients (aged <50 years)
2. Diabetic patients
3. Lesions in segments that may undergo CABG, particularly the LAD
4. Vessels with long lesions (>30 mm) and/or diffuse disease with a high probability of requiring secondary revascularization

R.C. Teles , Rev Port Cardiol.
2013;32(12):1013---1018

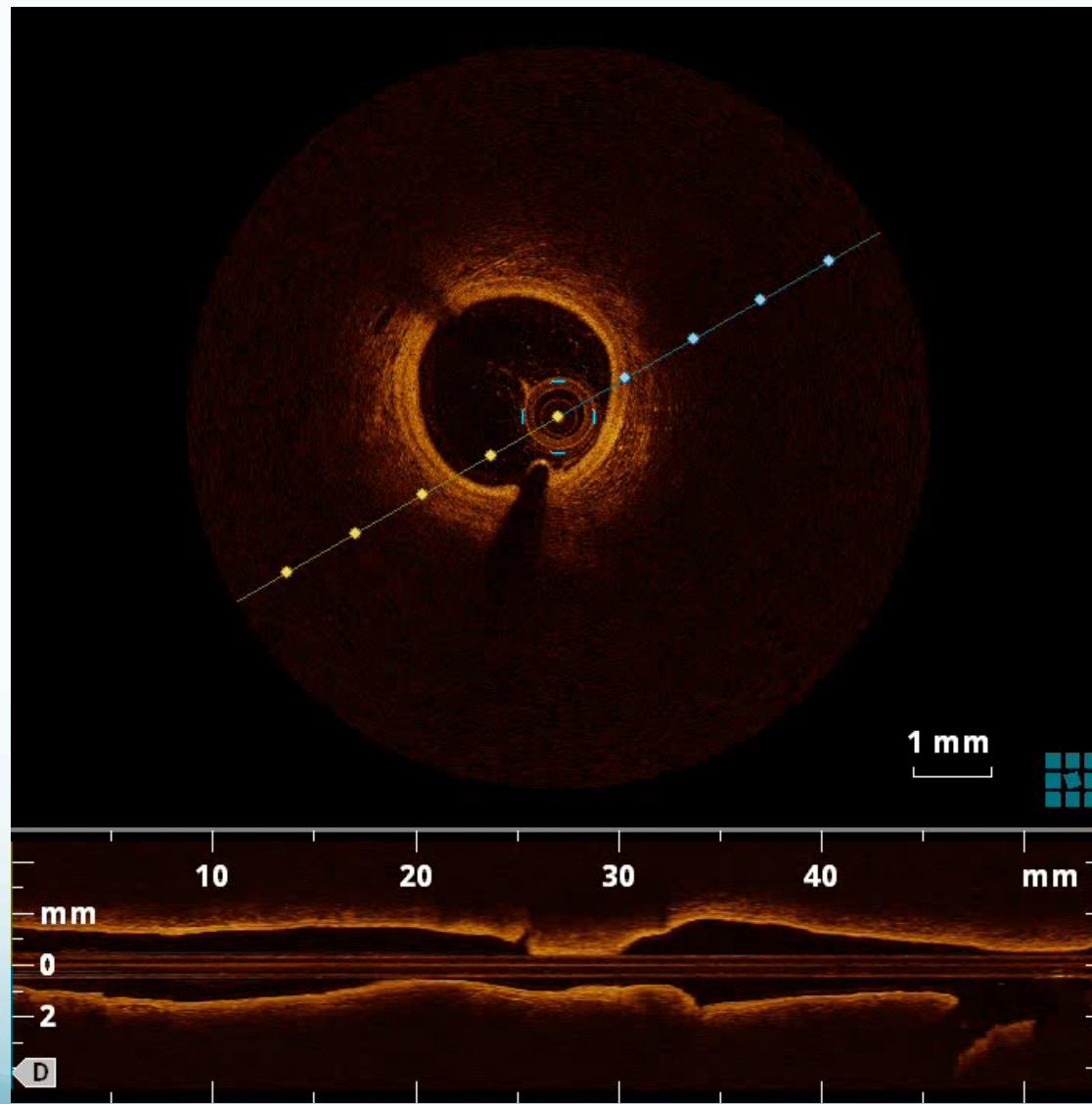
Appropriate use of bioresorbable vascular scaffolds in percutaneous coronary interventions: a recommendation from experienced users

Table 3 Patient specific criteria

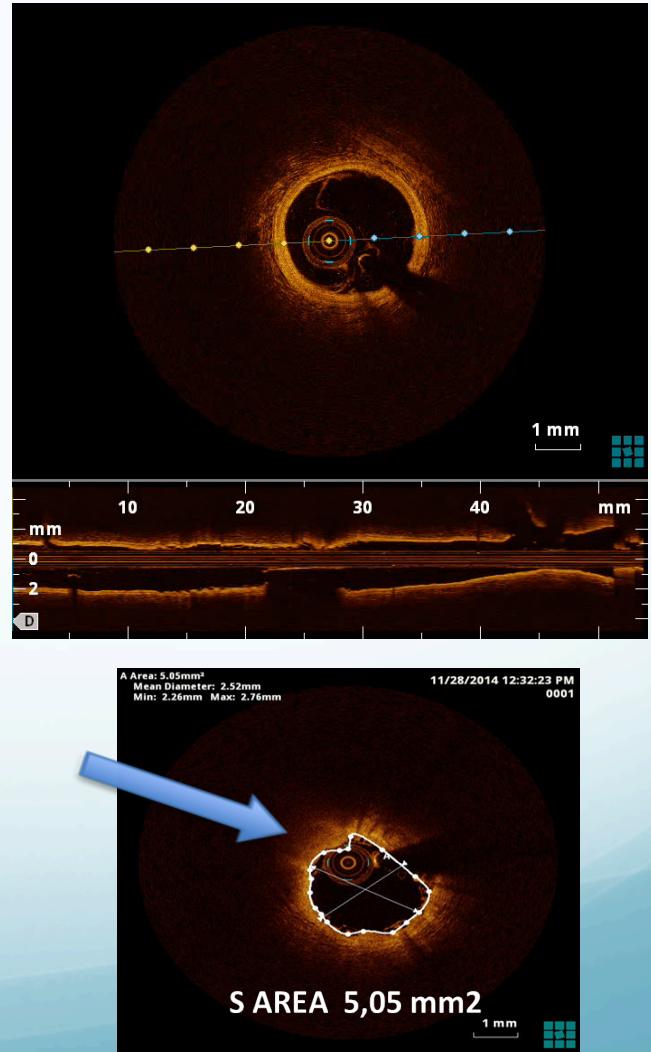
Optimal	Young patients or with good life expectancy (i.e. > 5 years)	Age < 70 years or Age 70–80 with maximum 1 of PAD, COPD, CVA, renal failure, DM, BMI > 40 or LVEF < 40%
No potential benefit to be expected	Limited life expectancy (i.e. < 1 or 2 years)	Cardiogenic shock, severe heart failure (EF < 30%), dialysis

BMI body mass index, COPD chronic obstructive pulmonary disease, CVA cerebrovascular accident, DM diabetes mellitus, LVEF left ventricular ejection fraction, PAD peripheral artery disease

OCT



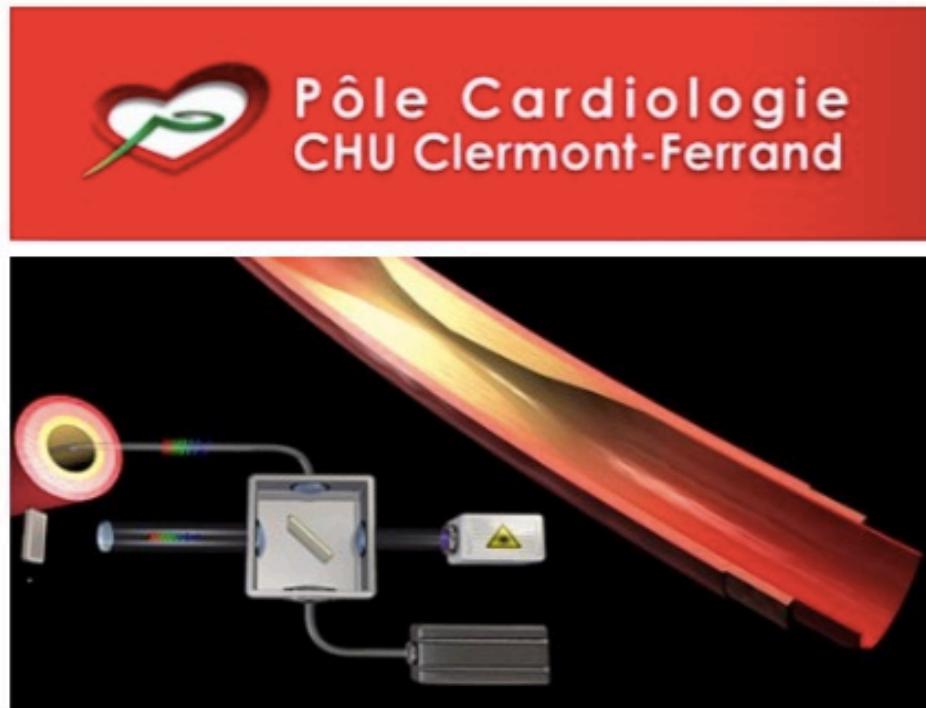
Prédilatation au ballon (3 mm, 16 atm) et implantation d'un BVS (3x18 mm à 18 atm)



OCT, PRESENTATIONS

LE FROG SPECIAL - ATLAS D'IMAGERIE OCT

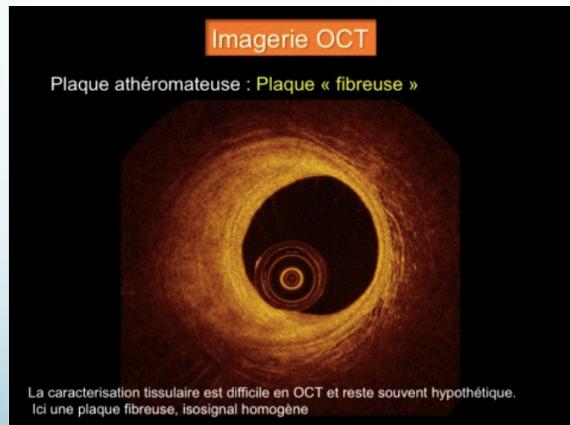
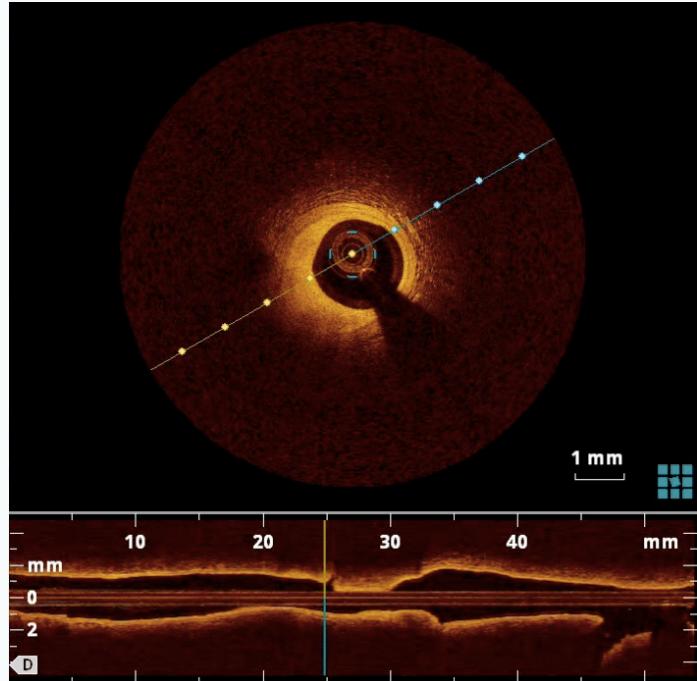
8TH DECEMBER 2015

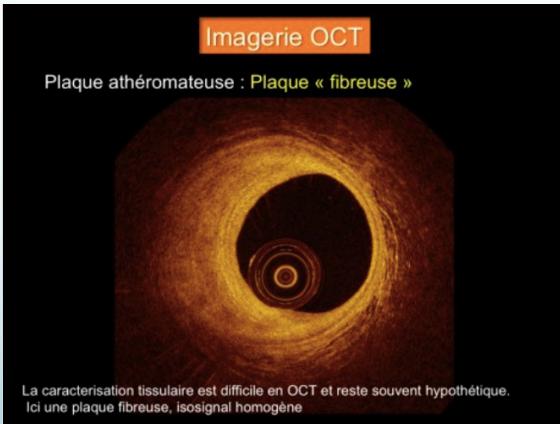
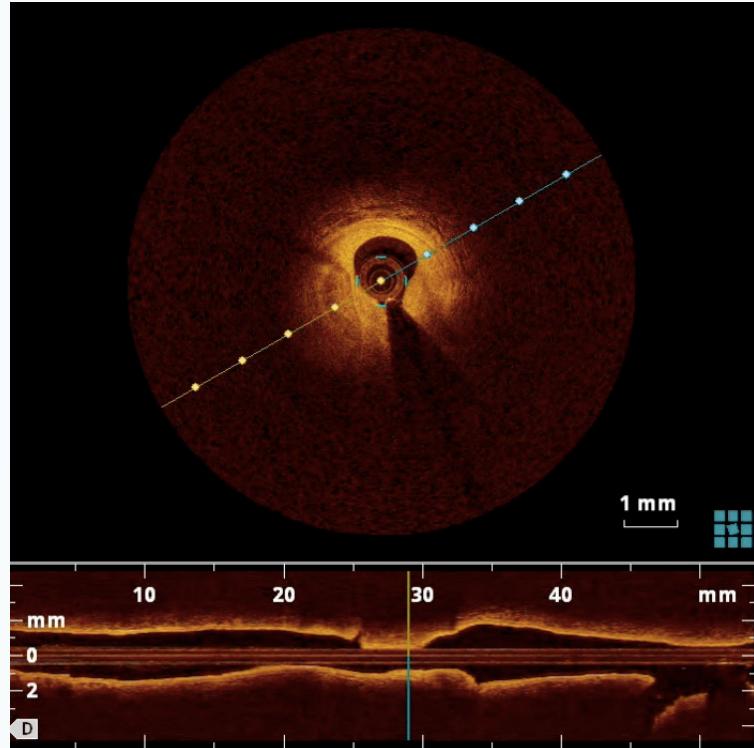
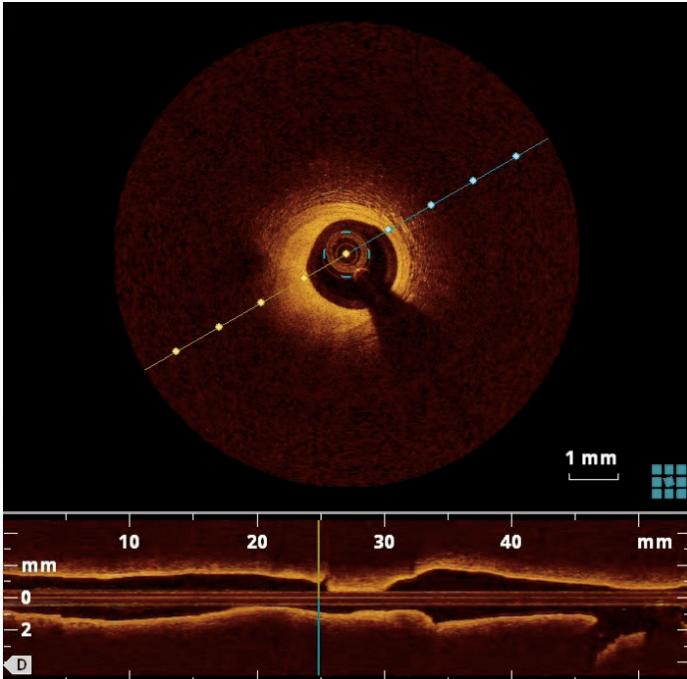


Pr Pascal MOTREFF

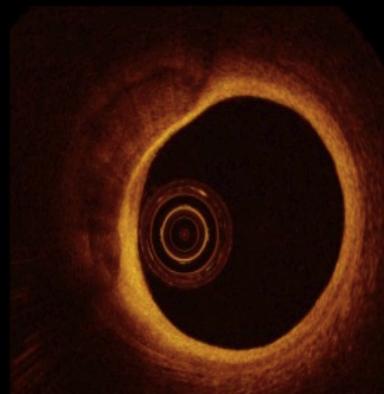
Dr Géraud SOUTEYRAND

Dr Nicolas COMBARET



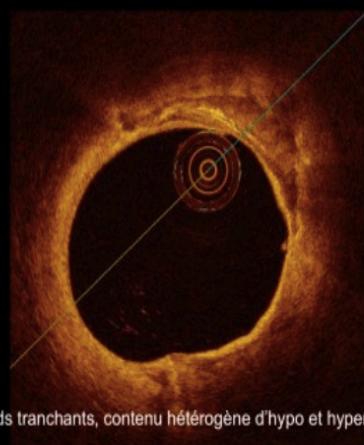


Plaque athéromateuse : Plaque « lipidique »



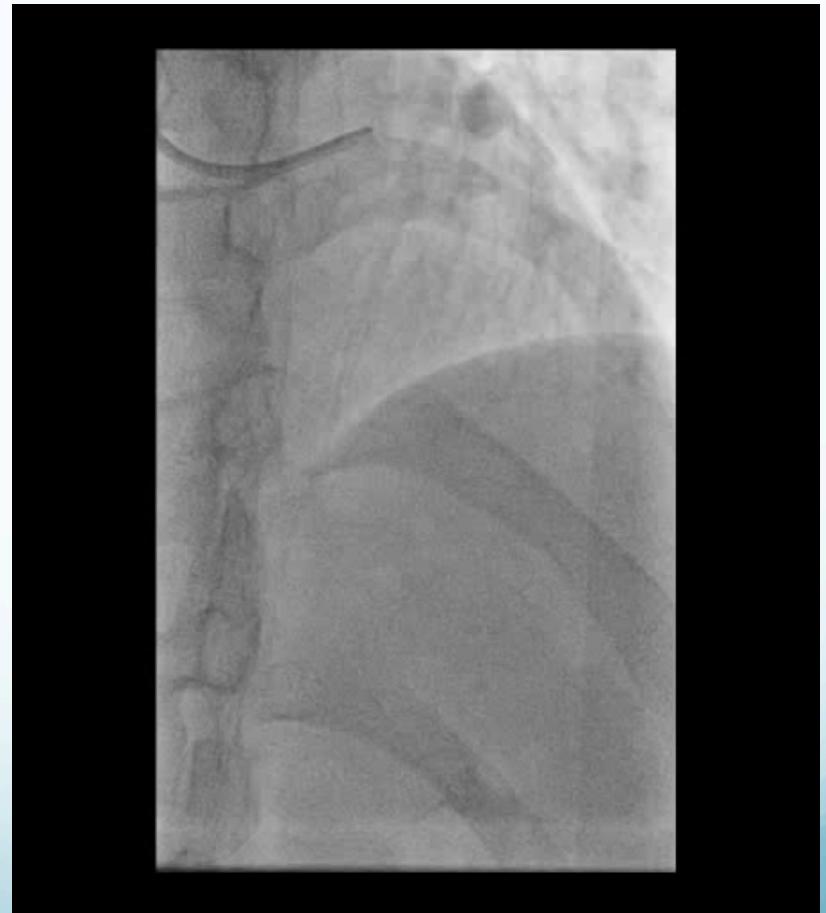
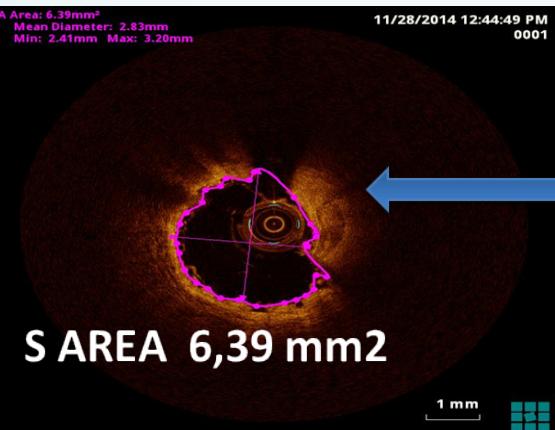
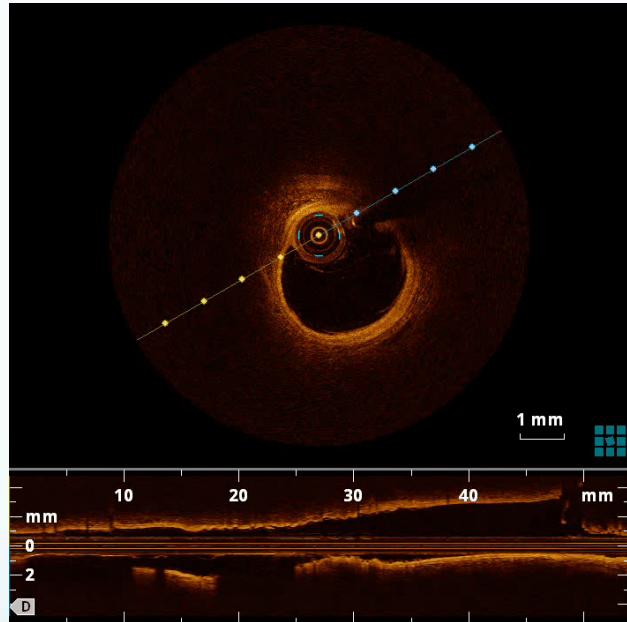
Une plaque plutôt lipidique, hyposignal à bord mousse et contenu homogène. Atténuation forte du signal empêchant de délimiter le contour postérieur.

Plaque athéromateuse : Plaque « calcique »



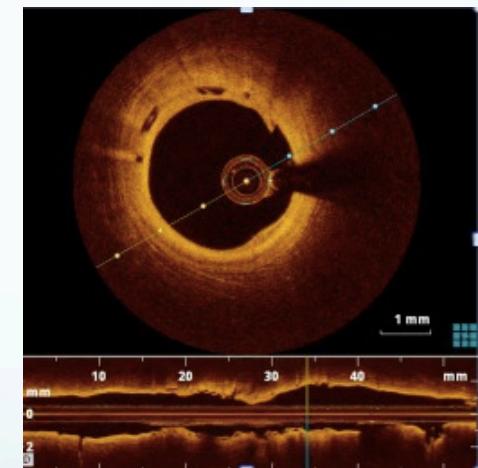
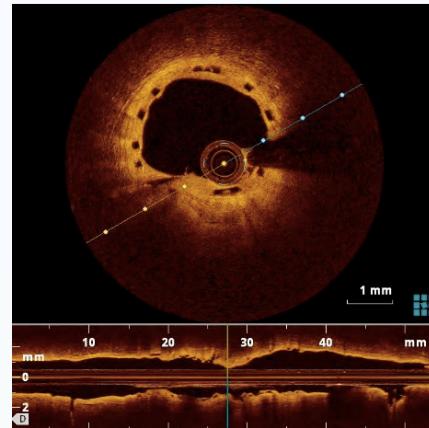
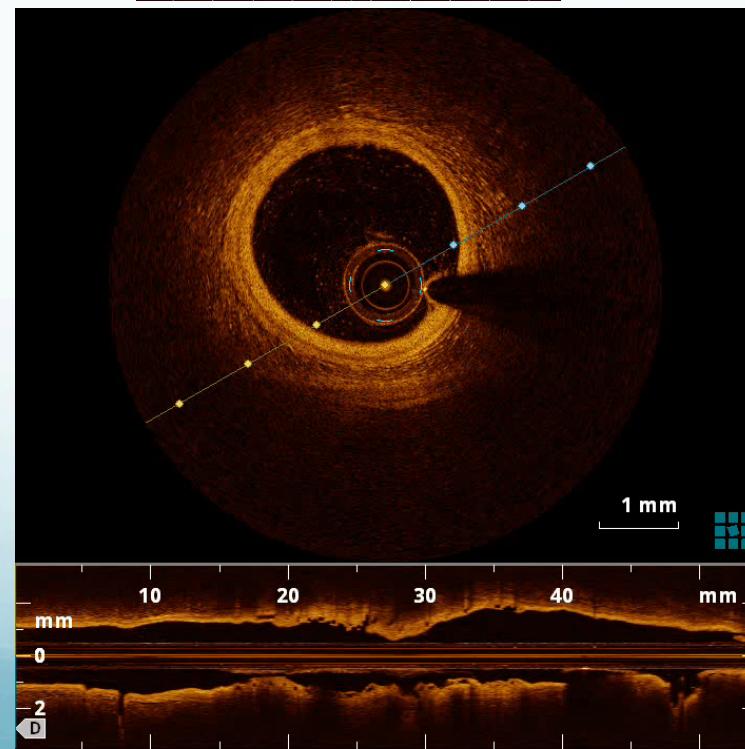
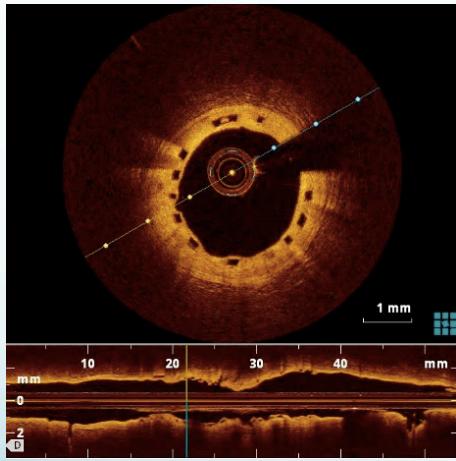
Bords tranchants, contenu hétérogène d'hypo et hypersignaux

Postdilatation avec un ballon NC (3,5 mm; 20 atm)
impaction toujours asymétrique du stent



Décembre 2015

Réhospitalisation pour DT sans modif ECG. Tropo sub-normale

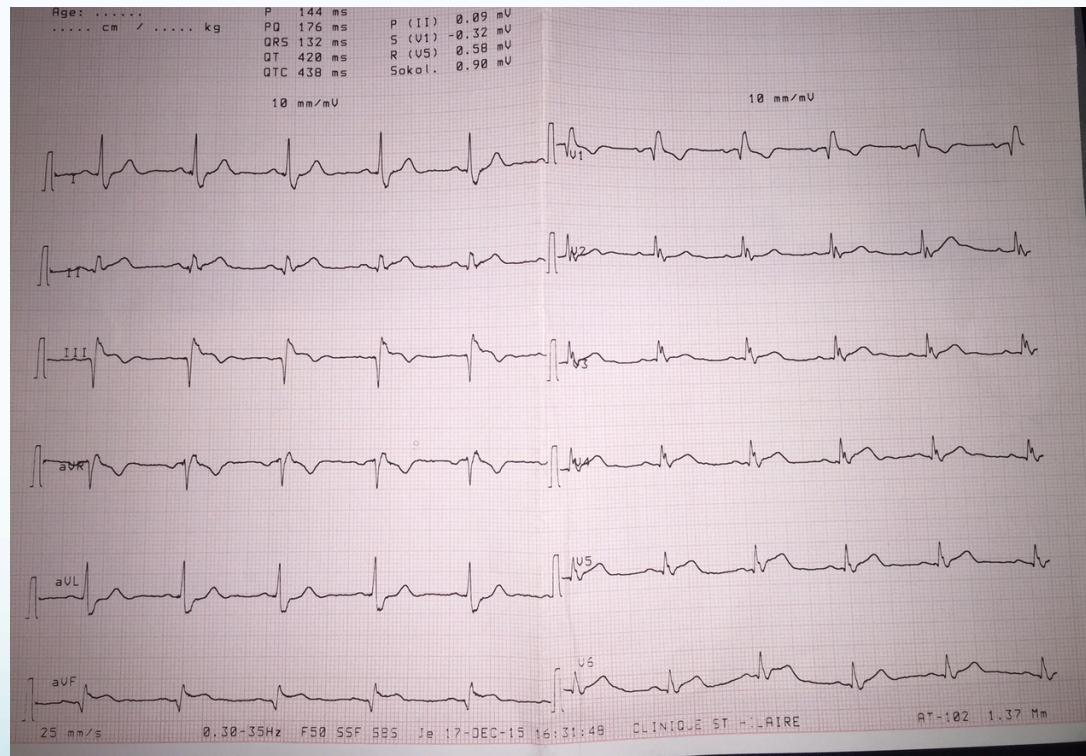


BVS et IDM

M Godin
Rouen

Mr D 58 ans

- H6



Taille de l'image : 512 x 512
NF : 127 LF : 255

154321 (59a , 58a)
Card Faible Dose
Coro 7 5 FD



Zoom : 137%
Im : 1/51 Series: 1
JPEGLossless Non-hierarchical-1stOrderPrediction
Position : HFS

17/12/2015 17:03:18
Made In OsiriX

Taille de l'image : 512 x 512
NF : 127 LF : 255

154321 (59a , 58a)
Card Faible Dose
Coro 7 5 fort



Zoom : 137%
Im : 1/27 Series: 6
JPEGLossless Non-hierarchical-1stOrderPrediction
Position : HFS

17/12/2015 17:06:56
Made In OsiriX

Thrombo-aspiration

Taille de l'image : 512 x 512
NF : 127 LF : 255

154321 (59a , 58a)
Card Faible Dose
Coro 7 5 fort

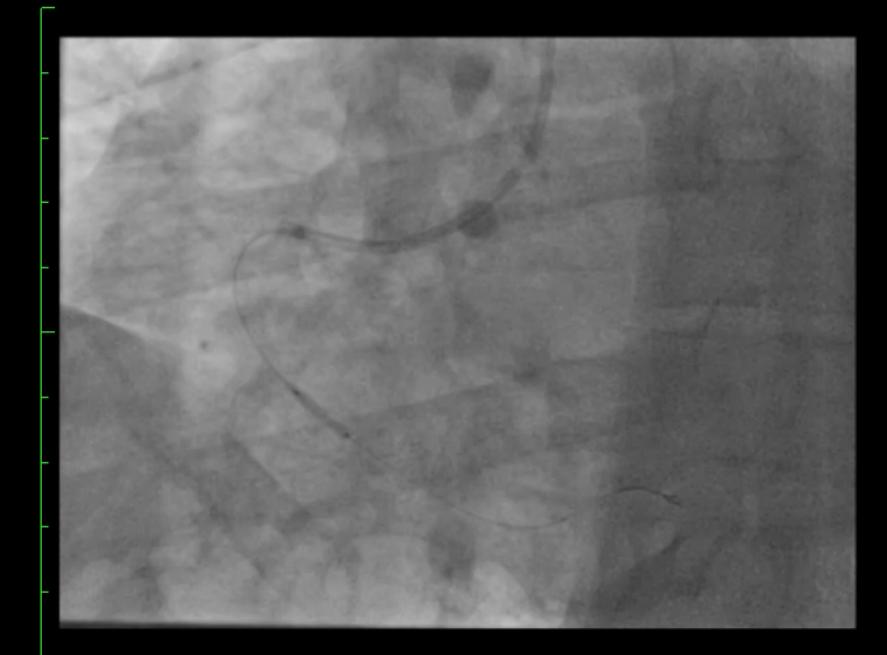


Zoom : 135%
Im : 1/42 Series: 7
JPEGLossless:Non-hierarchical-1stOrderPrediction
Position : HFS

17/12/2015 17:12:07
Made In OsiriX

Taille de l'image : 512 x 512
NF : 127 LF : 255

154321 (59a , 58a)
Card Faible Dose
Coro 7 5 fort



Zoom : 136%
Im : 1/1 Series: 8
JPEGLossless:Non-hierarchical-1stOrderPrediction
Position : HFS

17/12/2015 17:13:46
Made In OsiriX

Ballon 2mm x 12 mm

Taille de l'image : 512 x 512
NF : 127 LF : 255

154321 (59a , 58a)
Card Faible Dose
Coro 7 5 fort

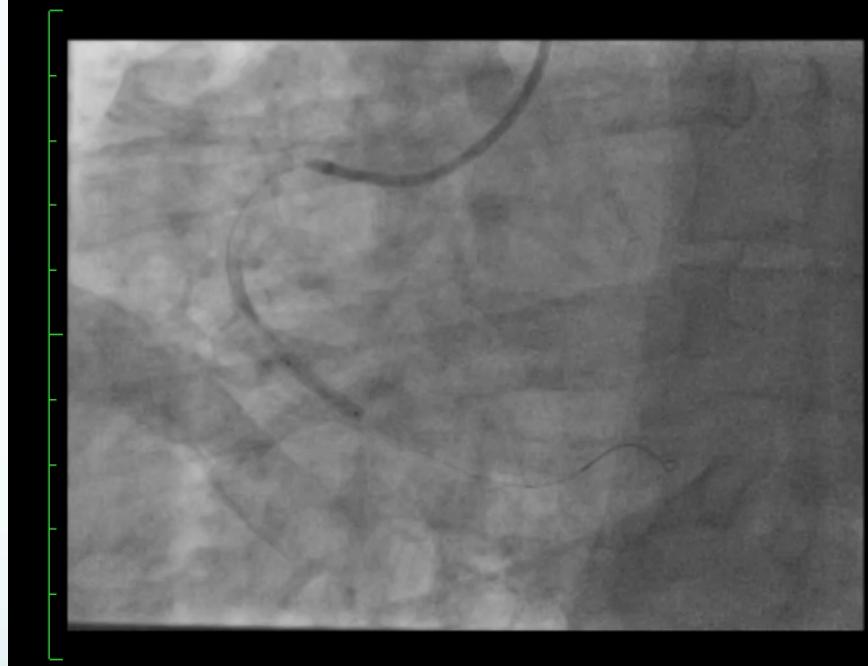


Zoom : 136%
Im : 1/32 Series: 11
JPEGLossless;Non-hierarchical-1stOrderPrediction
Position : HFS

17/12/2015 17:14:14
Made In Osirix

Taille de l'image : 512 x 512
NF : 127 LF : 255

154321 (59a , 58a)
Card Faible Dose
Coro 7 5 fort



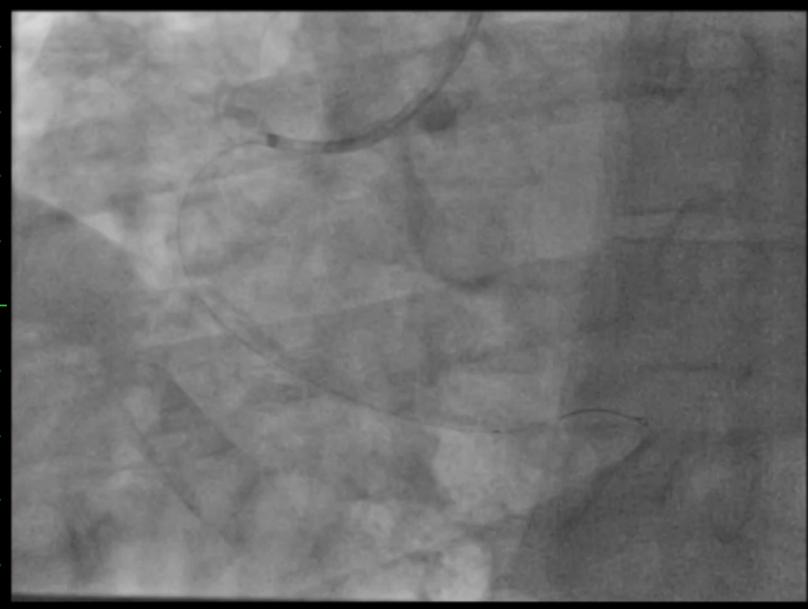
Zoom : 136%
Im : 1/3 Series: 13
JPEGLossless;Non-hierarchical-1stOrderPrediction
Position : HFS

17/12/2015 17:17:18
Made In Osirix

Ballon 3mm x 15 mm

Taille de l'image : 512 x 512
NF : 127 LF : 255

154321 (59a , 58a)
Card Faible Dose
Coro 7 5 fort

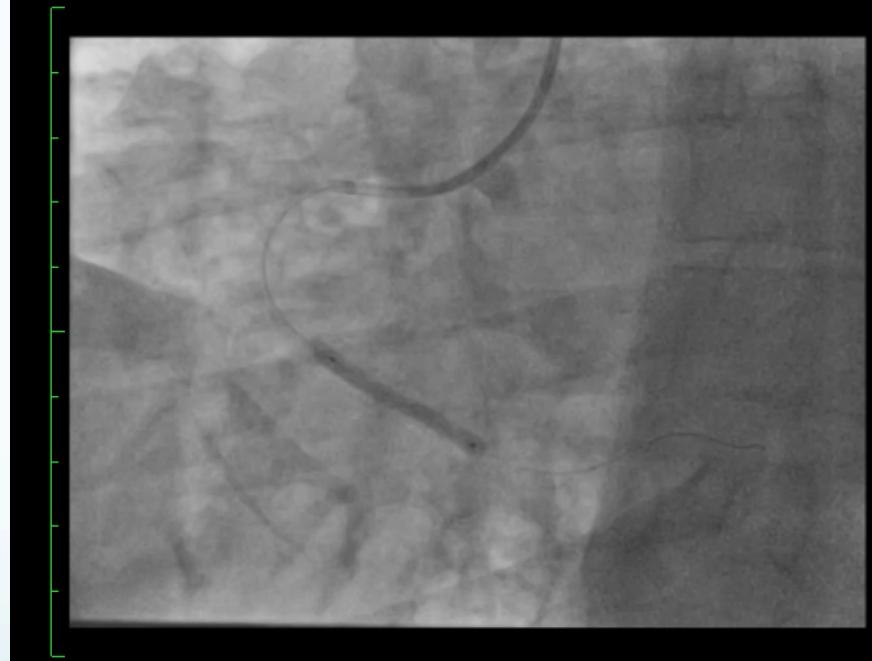


Zoom : 136%
Im : 1/34 Series: 16
JPEGLossless:Non-hierarchical-1stOrderPrediction
Position : HFS

17/12/2015 17:18:27
Made In Osirix

Taille de l'image : 512 x 512
NF : 127 LF : 255

154321 (59a , 58a)
Card Faible Dose
Coro 7 5 fort



Zoom : 136%
Im : 1/5 Series: 19
JPEGLossless:Non-hierarchical-1stOrderPrediction
Position : HFS

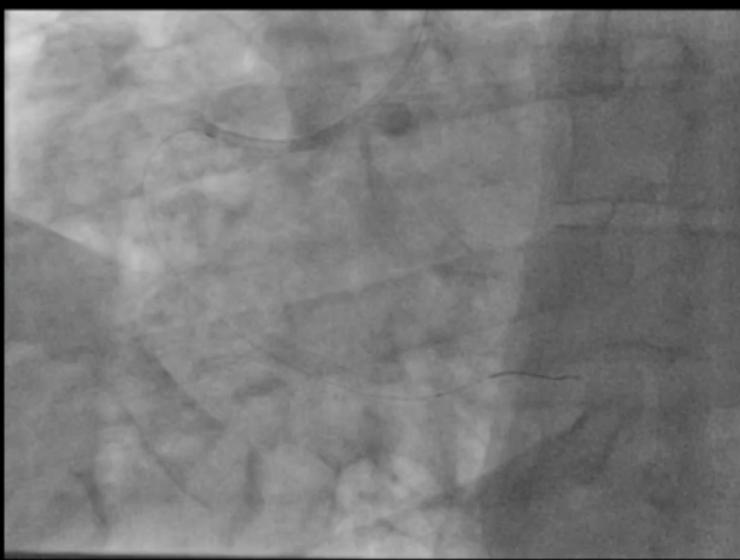
17/12/2015 17:23:38
Made In Osirix

Stent ABSORB 3 x 28mm

Réhaussement Stent

Taille de l'image : 512 x 512
NF : 127 LF : 255

154321 (59a , 58a)
Card Faible Dose
Coro 7 5 fort

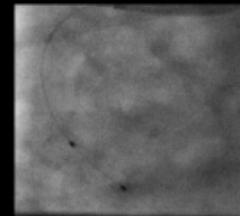


Zoom : 136%
Im : 1/32 Series: 20
JPEGGlossless:Non-hierarchical-1stOrderPrediction
Position : HFS

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Made In OsiriX

Taille de l'image : 512 x 512
NF : 127 LF : 255

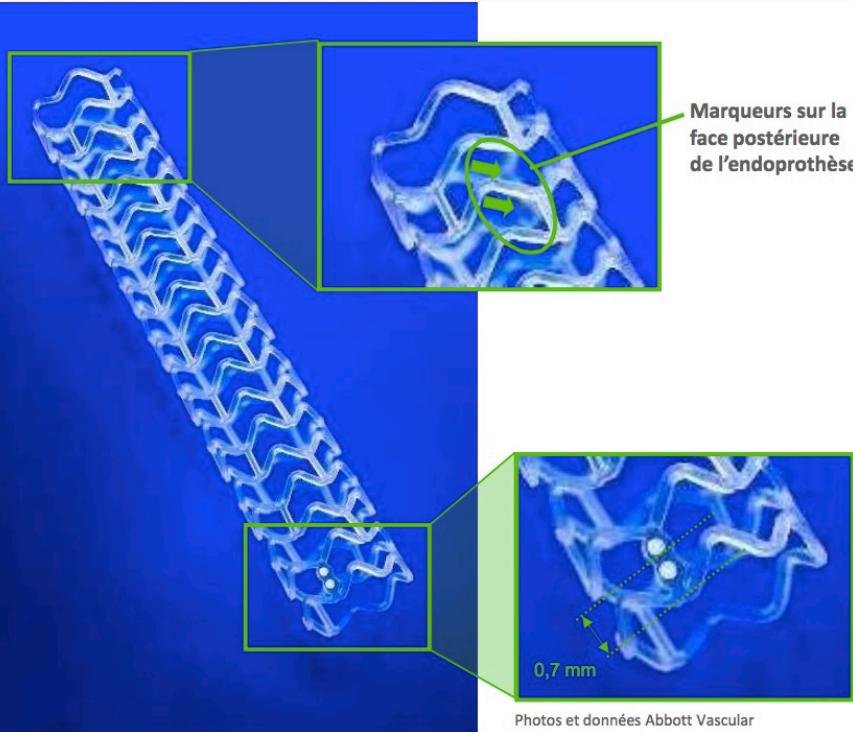
154321 (59a , 58a)
Card Faible Dose
ClearStent



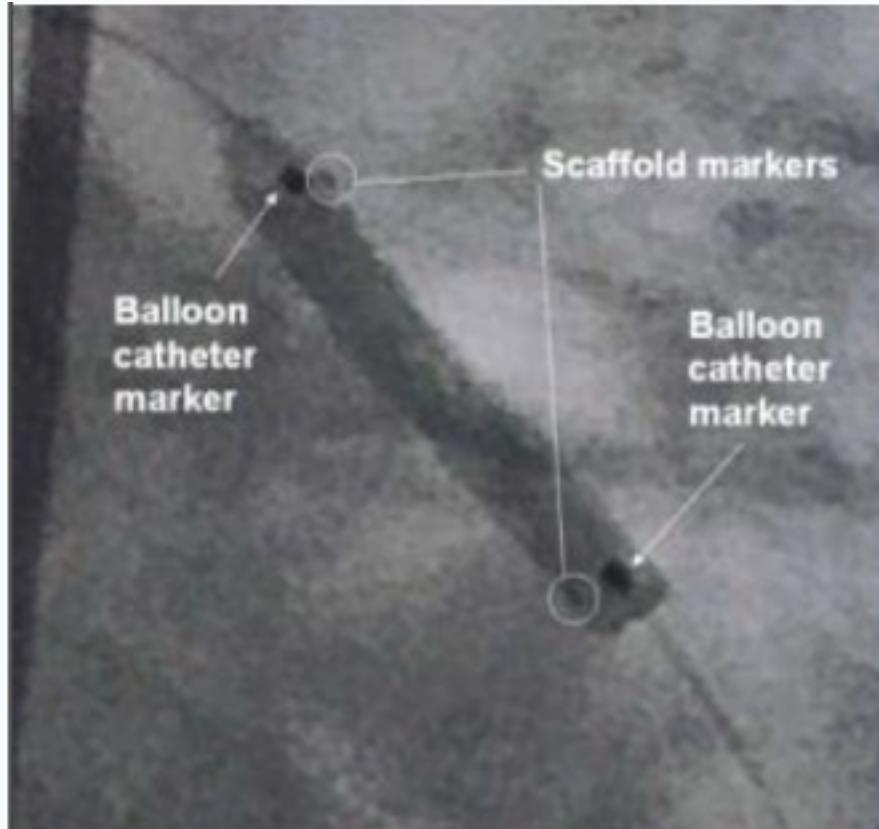
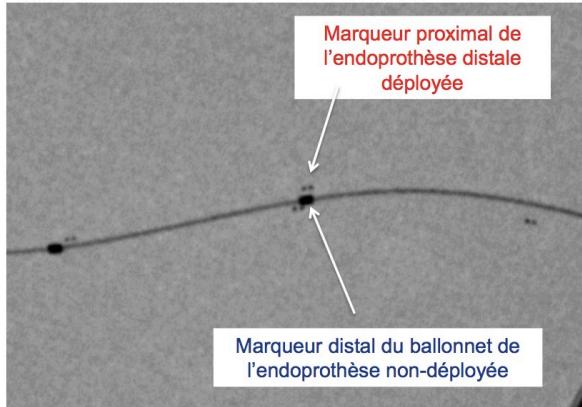
Zoom : 136%
Im : 1/62 Series: 22
JPEGGlossless:Non-hierarchical-1stOrderPrediction
Position : HFS

17/12/2015 17:26:14
Made In OsiriX

Stent ABSORB 3mm x 12 mm

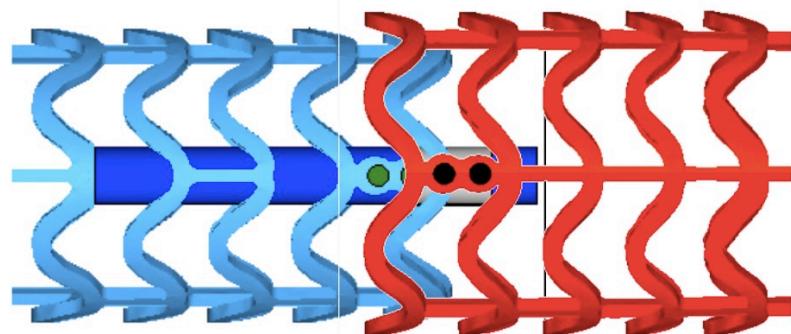


- Aligner le marqueur du ballonnet avec le marqueur de l'endoprothèse déployée = 1 mm d'overlap



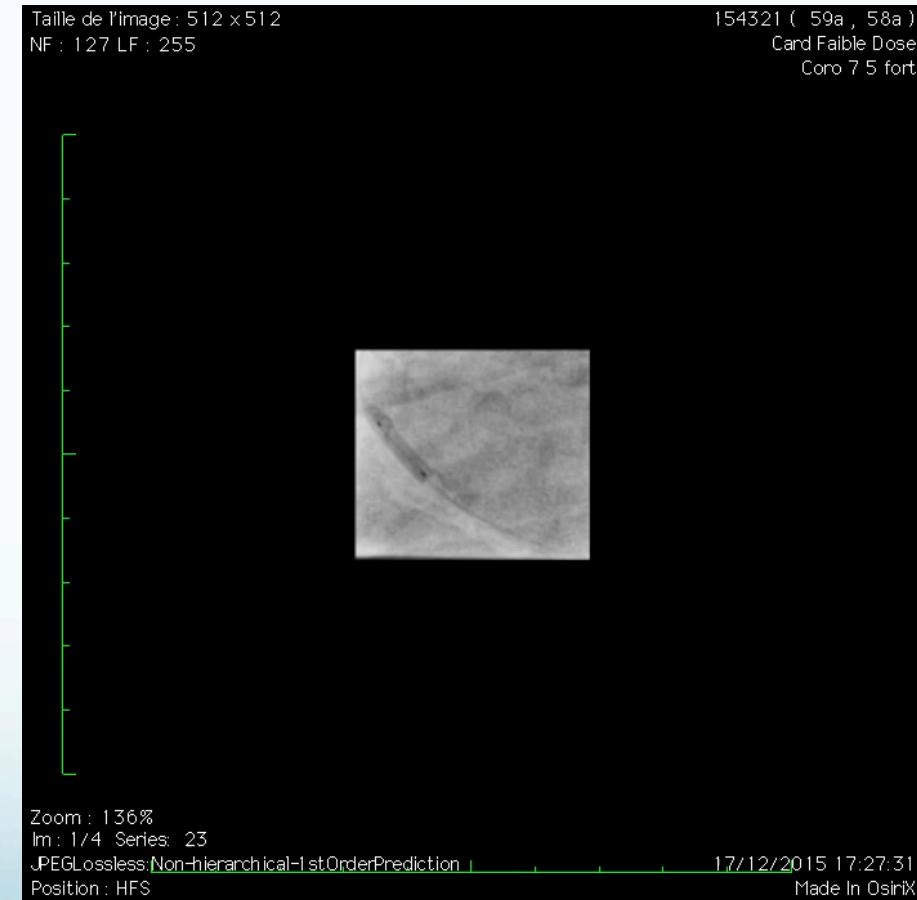
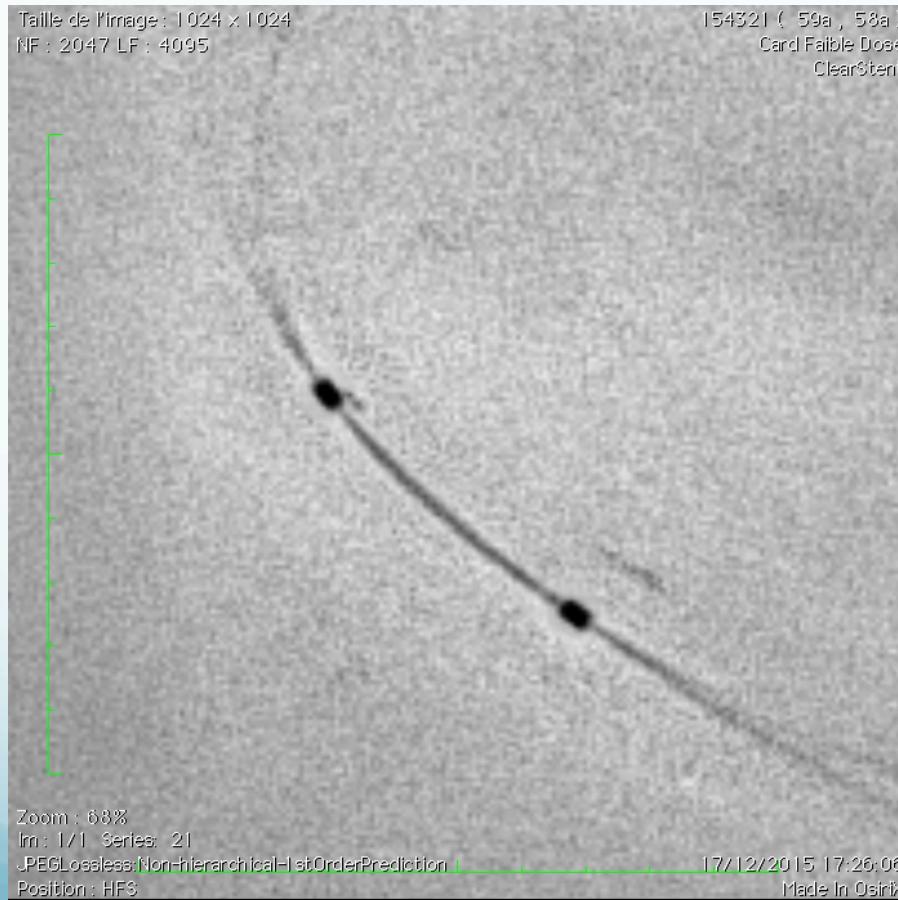
Les marqueurs du ballonnet sous les marqueurs de l'endoprothèse déployée

Résultat : ~1 mm d'overlap



- Overlap proximal : Le marqueur distal du ballonnet (**BLEU**) aligné avec le marqueur proximal de l'endoprothèse implantée (**ROUGE**)
- Overlap distal : Le marqueur proximal du ballonnet est aligné avec le marqueur distal de l'endoprothèse implantée.

Réhaussement Stent



Post-dilatation



Ballon NC 3,25mm x 15 mm

Taille de l'image : 512 x 512
NF : 127 LF : 255

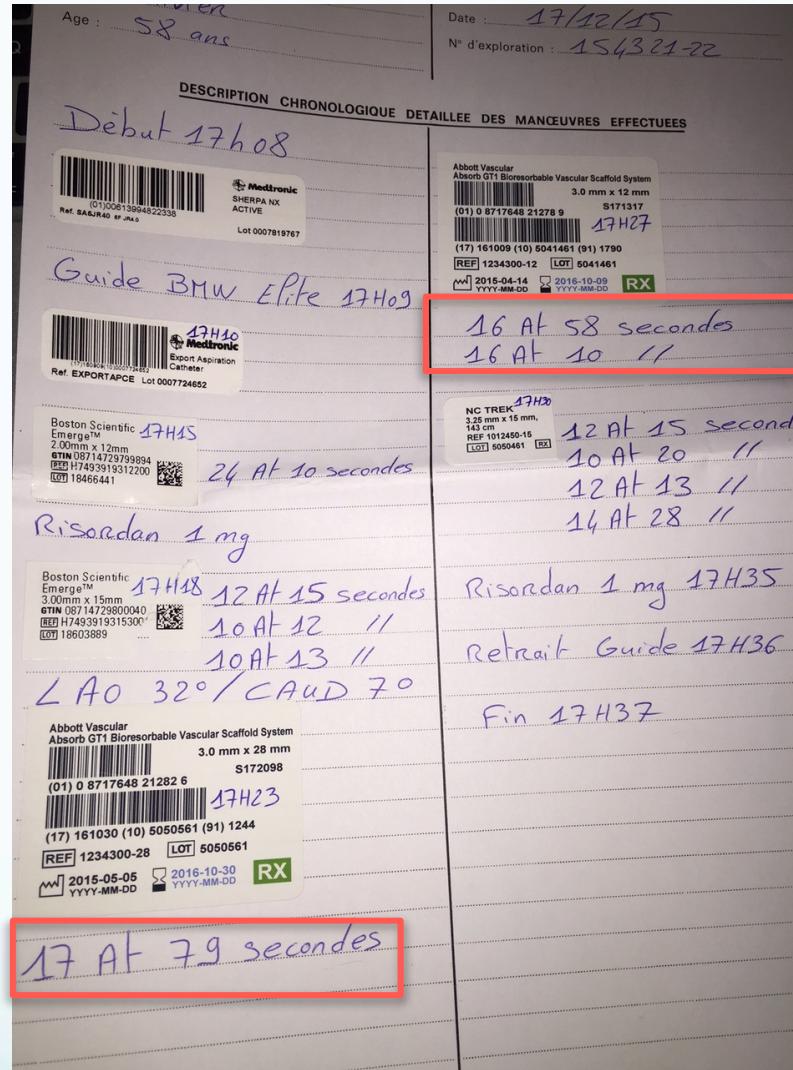
154321 (59a , 58a)
Card Faible Dose
Coro 7 5 fort

Zoom : 136%
Taille de l'image : 512 x 512
NF : 127 LF : 255

154321 (59a , 58a)
Card Faible Dose
Coro 7 5 fort

Zoom : 136%
Im : 1/40 Series: 37
.JPEG Lossless Non-hierarchical 1st Order Prediction
Position : HFS

17/12/2015 17:33:34
Made In OsirX



Avoir le temps et l'envie de bien travailler !!!

Quand penser BVS?

- Age jeune (<70 ans?)
- Lésions longues (Résultats de France Absorb)
- Taille de Vaisseaux $2,5\text{mm} < \text{ABSORB} < 4\text{mm}$
- SCA (thromboaspiration, MIMI, prédilatation prudente..)
- Zones de pontage éventuel
- Durée DAPT prolongée possible
-
-
-
-

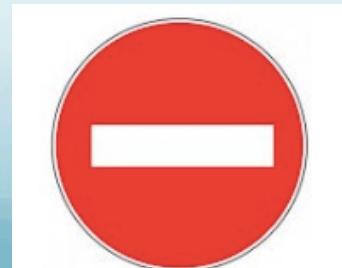
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- SCA
- Zones de pontage éventuel
- Durée DAPT prolongée possible
- « Bifurcations »
- « Lésions fibreuses »
-
-



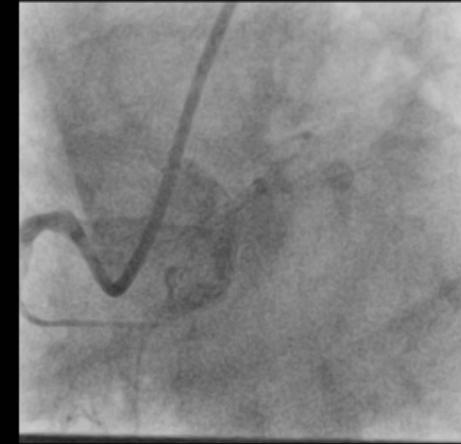
Quand penser BVS?

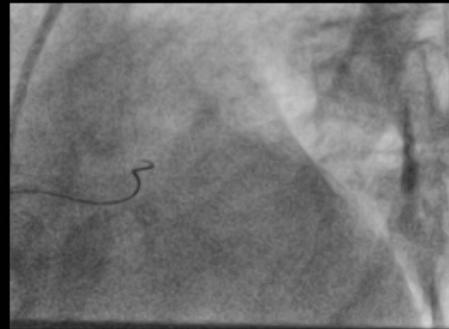
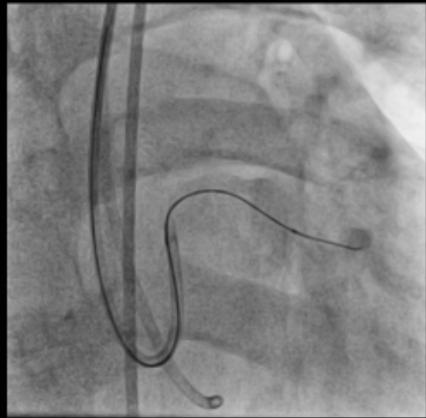
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- SCA
- Zones de pontage éventuel
- Durée DAPT prolongée possible
- Bifurcations
- Lésions fibreuses
- ~~Calcifications~~
- ~~Tronc commun~~

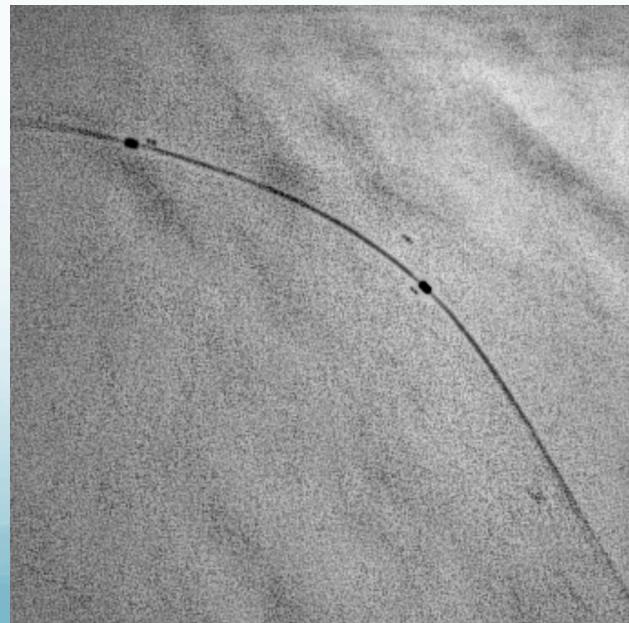


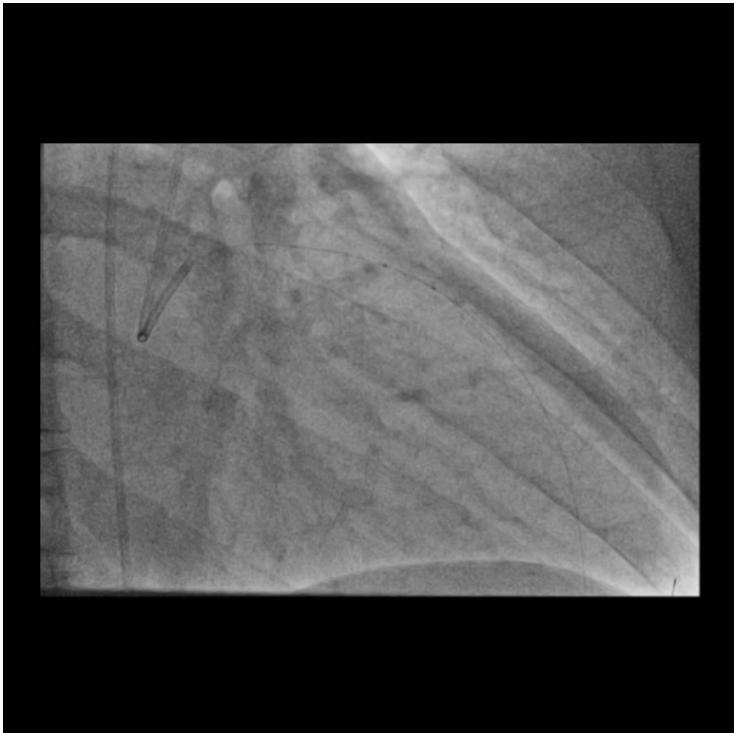
CTO Absorb

45 ans











Patient jeune
Zone de pontage IVA
Lésion >70mm