



Angioplastie peripherique étage fémoro-poplité et jambier

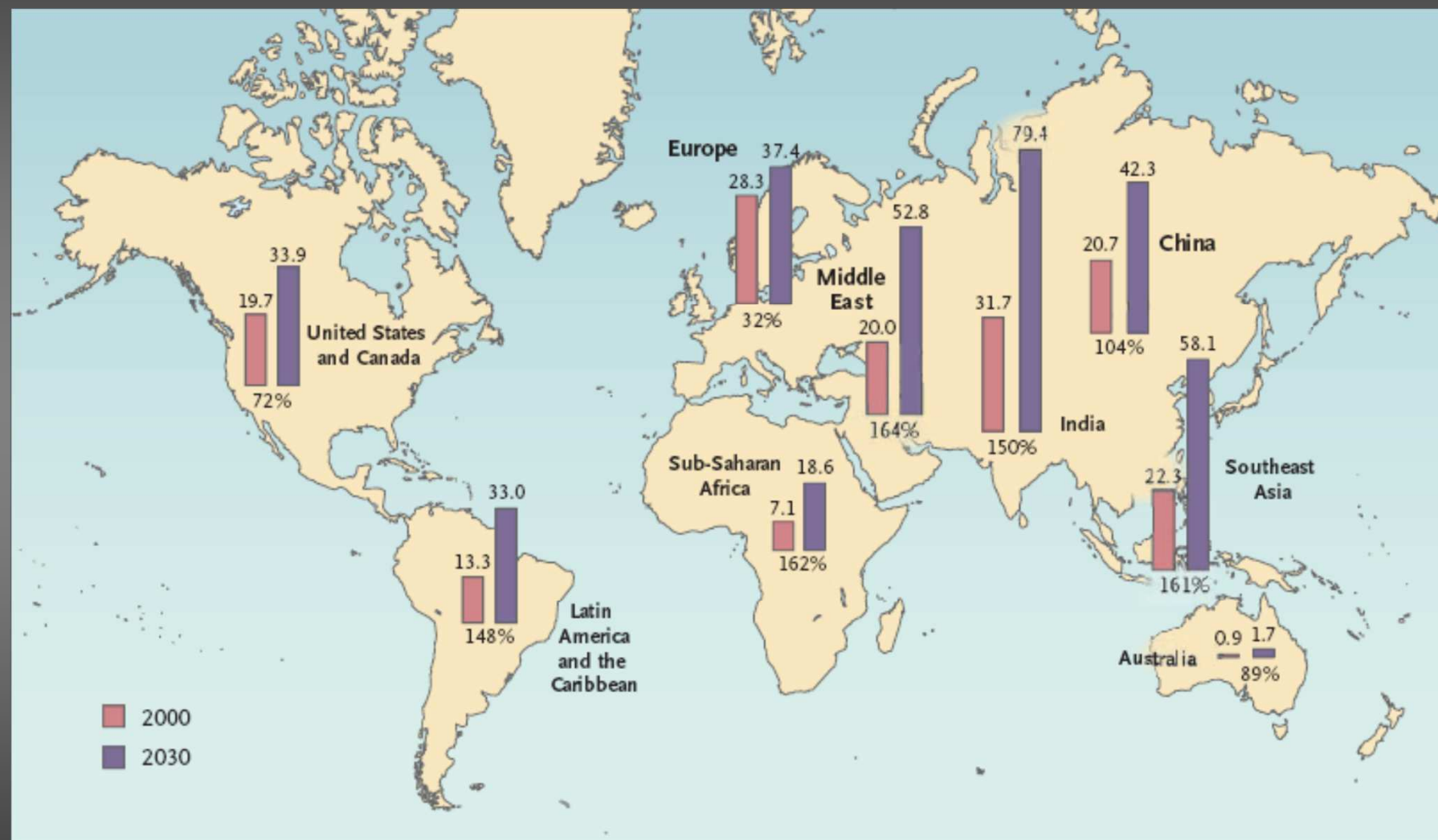
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Bordeaux – France

EURO-PHARMAT
Lille – 9-10-2012

CLI : definition

	Fontaine class	Rutherford category	ABI	Symptoms
Ischemic rest pain	III	4	<0.5	rest pain
Minor tissue loss	IV	5	<0.5	minor tissue loss (ulceration)
Major tissue loss	IV	6	<0.5	major tissue loss (gangrene)

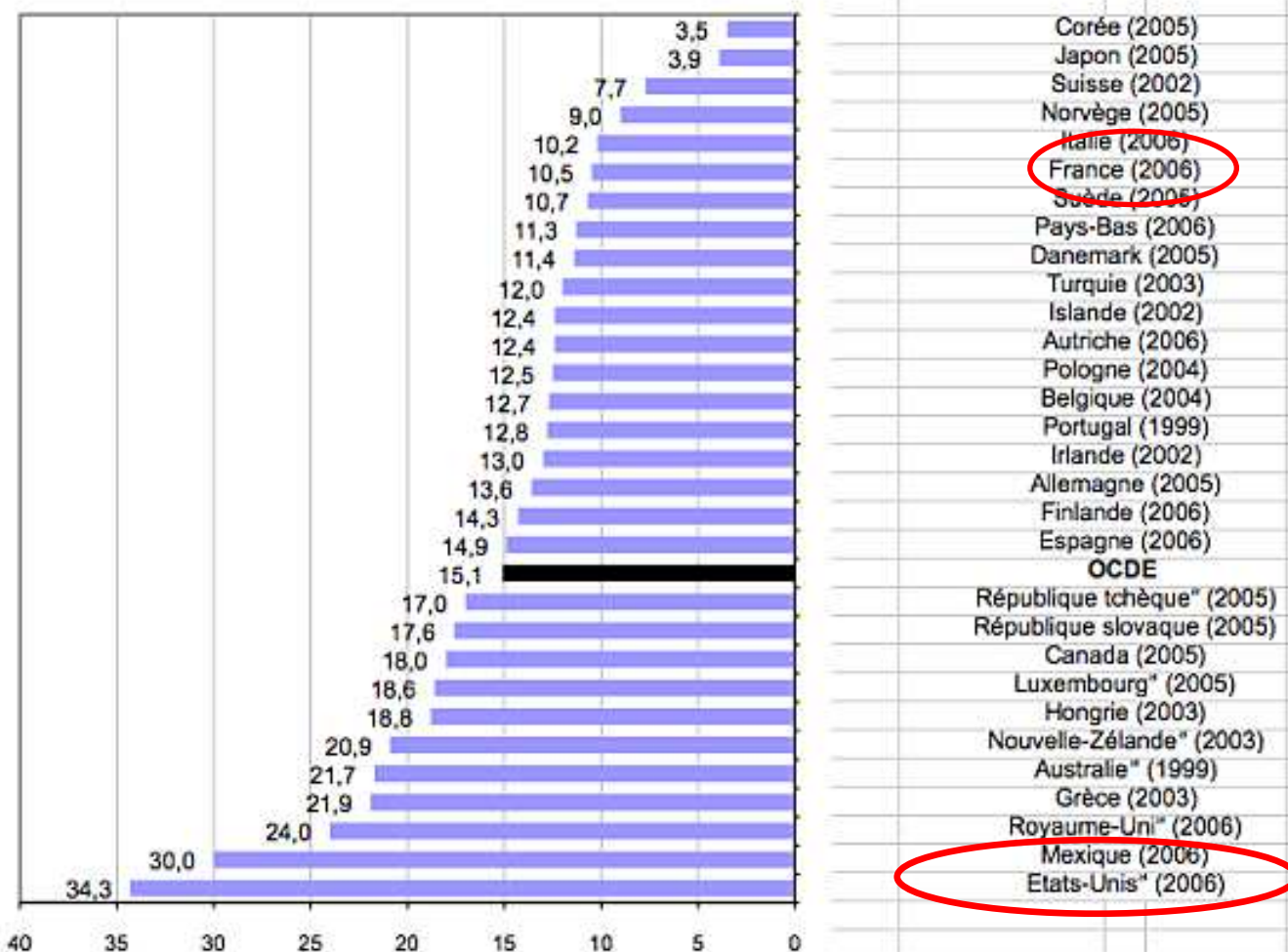
DIABETES : EPIDEMIOLOGY



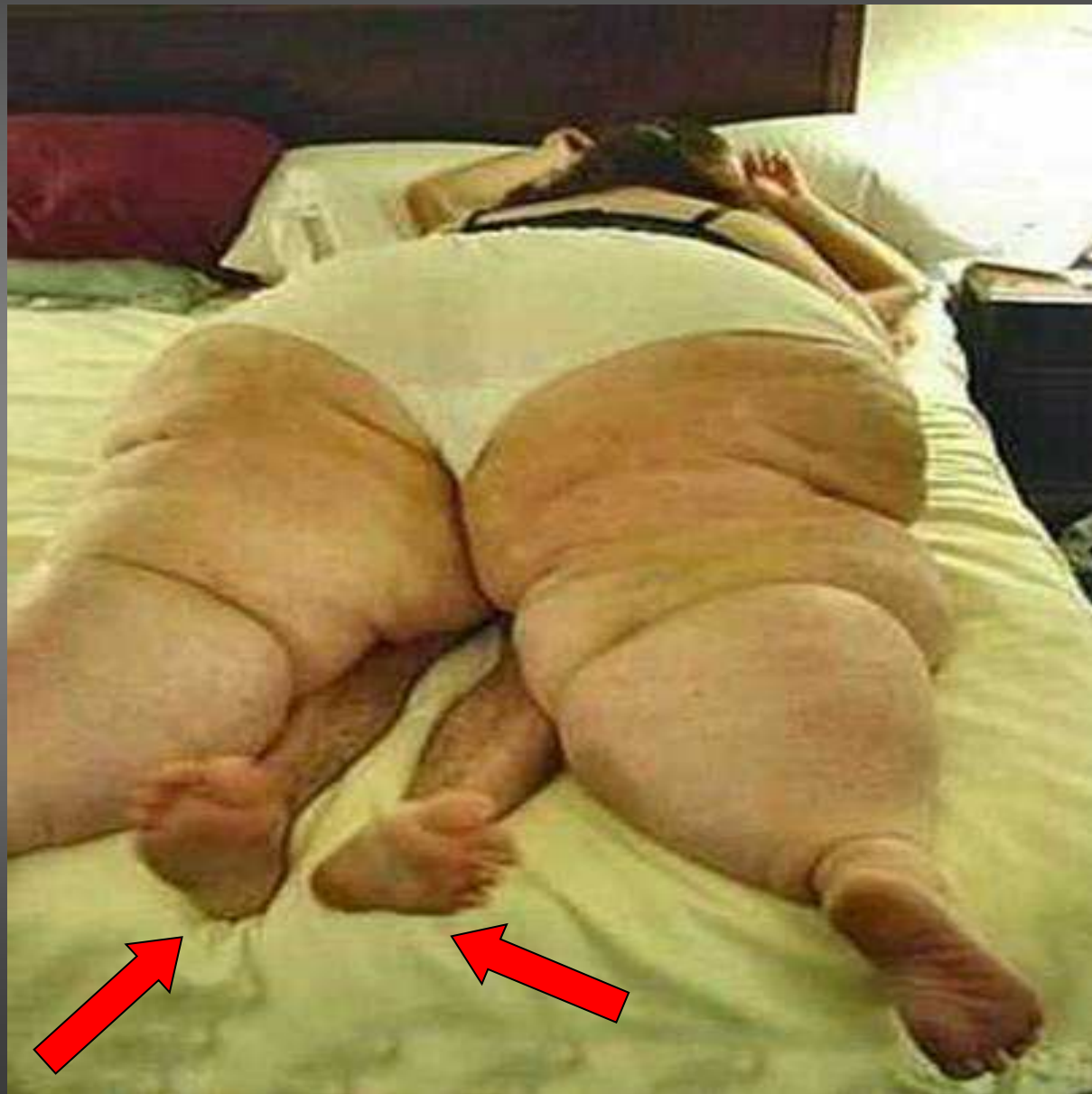
Millions of Cases of Diabetes in 2000 and Projections for 2030, with Projected Percent Changes.

OBESITY : EPIDEMIOLOGY

Pourcentage de la population adulte ayant un IMC>30 (année), pays classés selon l'IMC

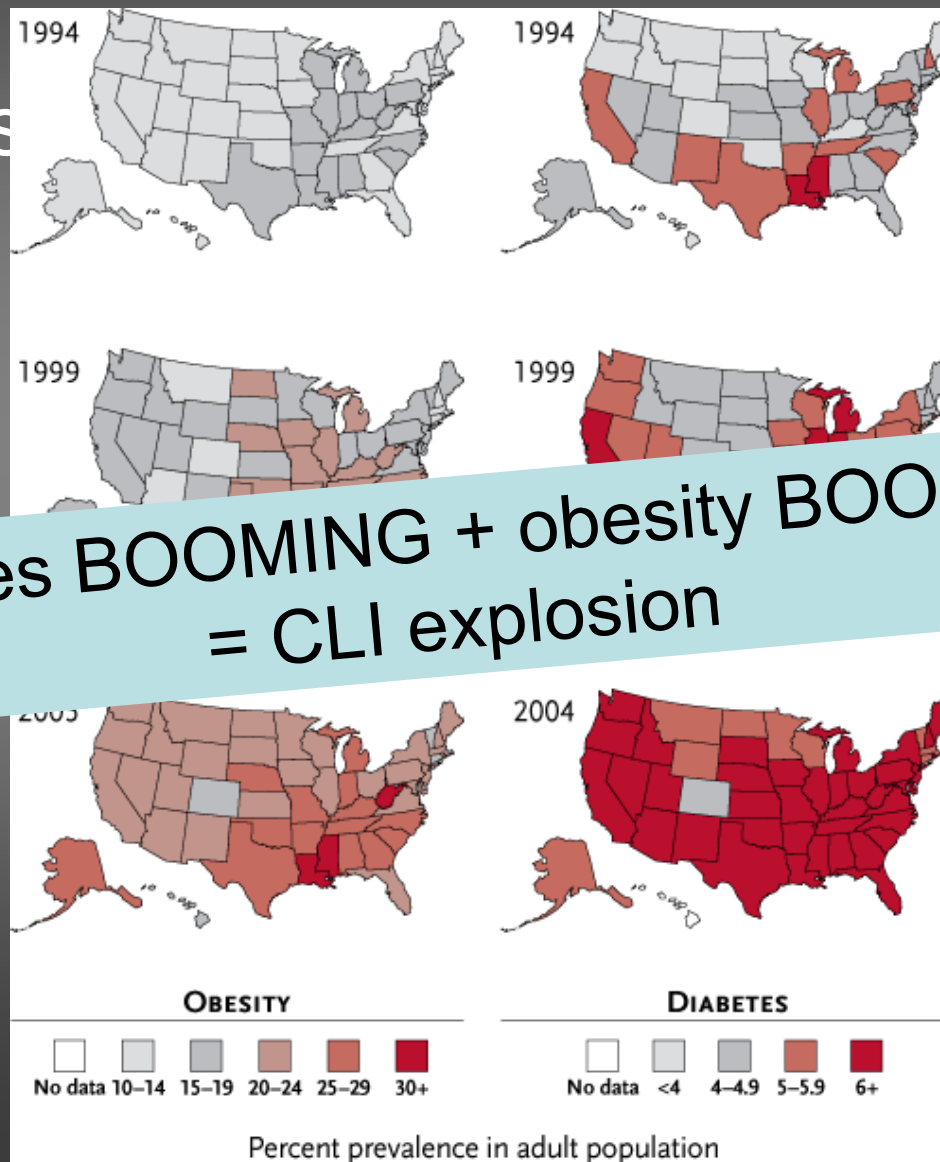


OBESITY : EPIDEMIOLOGY



EPIDEMIOLOGICAL NIGHTMARE

- Diabetes BOOMING in the US



Diabetes BOOMING + obesity BOOMING
= CLI explosion



ENDOVASCULAR



- Now dedicated devices
 - Specific introduceurs
 - Guide Wires + support catheter
 - Ballons + DEB
 - Stents – BES + SES + DES

GUIDEWIRES

– 0.035” – 0.032”

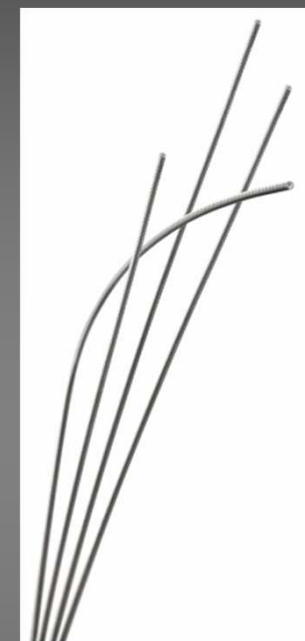
- GuideWire 180 cm – 260 cm

– 0.018”

- SV Wire 180cm
- **V-18 ControlWire** 180cm
- New generation 195 cm and 300 cm

– 0.014”

- From cardiac therapy 180cm wires up to 300 cm
- New generation nitinol coated





GUIDEWIRES SUMMARY



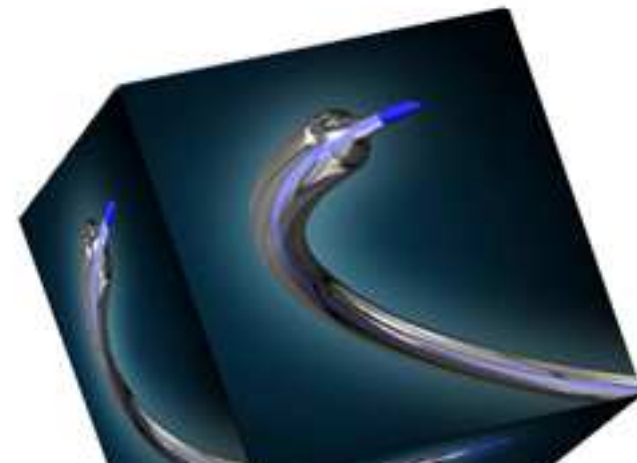
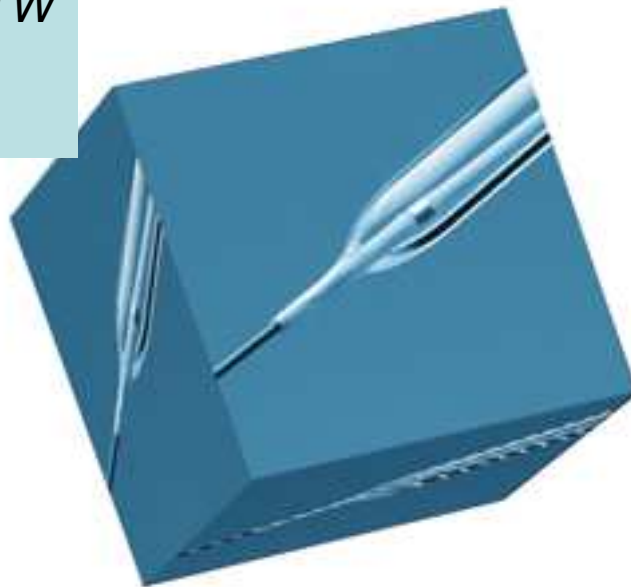
- 0.014" are dedicated for navigation
 - Multistenosed lesions
 - In foot lesions
- 0.018" are dedicated for recanalisation
 - Thrombosis and preocclusive lesions
- 0.035" peripheral endovascular use and long recanalisation

DEVICES : Balloons

- Dedicated balloons

- 0.035, Oversize the length of balloon, But NEVER oversize the diameter size
- Dedicated diameter and length

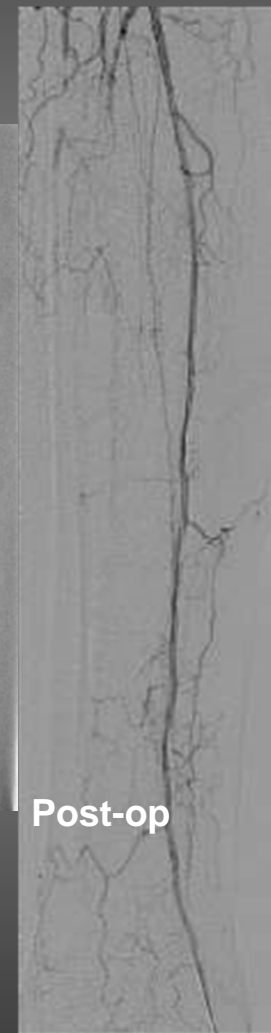
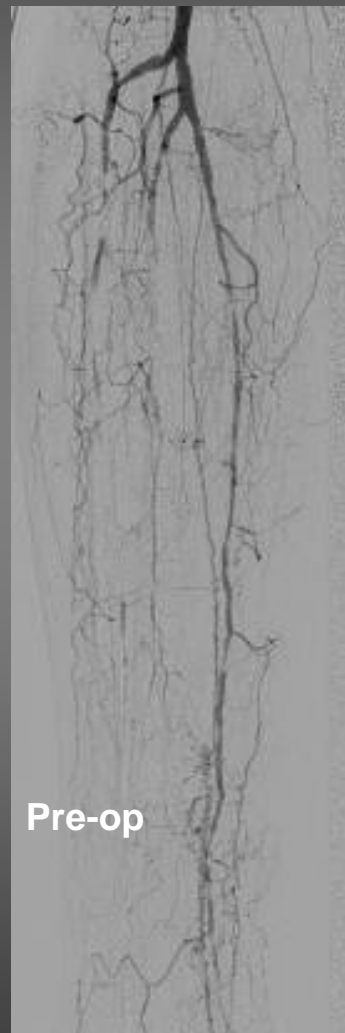
– 0.018" – OTW
2 to 4 mm
2 to 220 mm



- 0.014" – Rx
2 to 4 mm
40 to 220 mm – shaft 150 cm

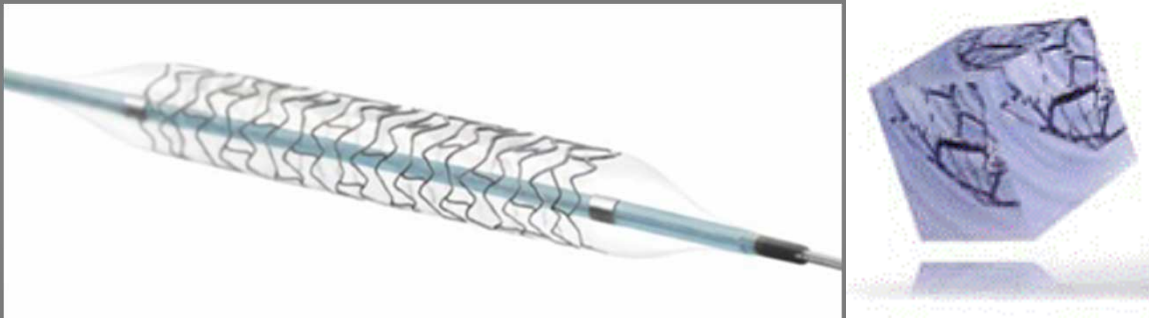
DEVICES

- Example:

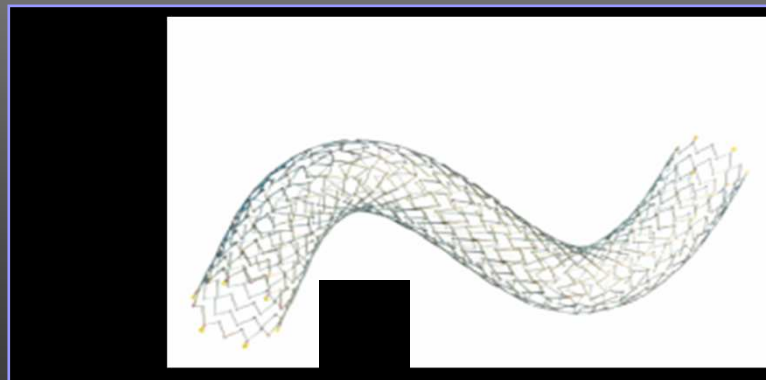


DEVICES - STENTS

- Dedicated stents for peripheral lesions
 - BES good radial force and good visibility



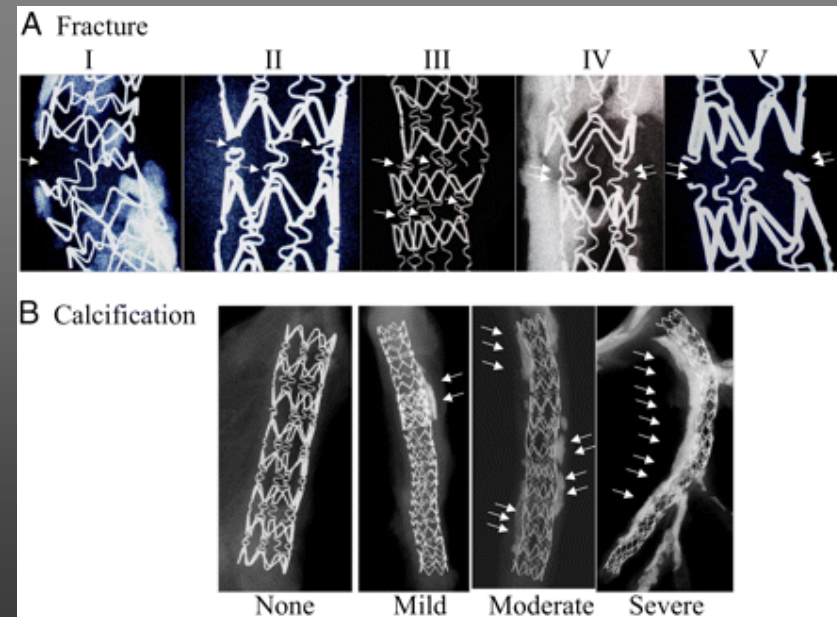
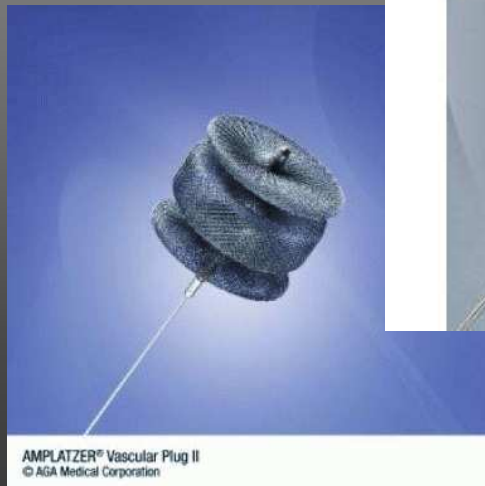
- SES less radial force – length superior (up to 200 mm)



INTRODUCTION



- Stenting is efficient for coronaries, carotids, iliac arteries.....controversy ??
- maybe some physicians assimilate peripheral stenting to:



Stenting



- **IMPORTANT TO STENT**

- **EuroPCR 2003**, N=74 Vs 58

- Technical success 79% Vs 95%

- Patency @ M12: 53% Vs 84%

- **CVIR 2005 N**

- Randomized prospective study **N=52**

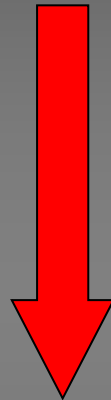
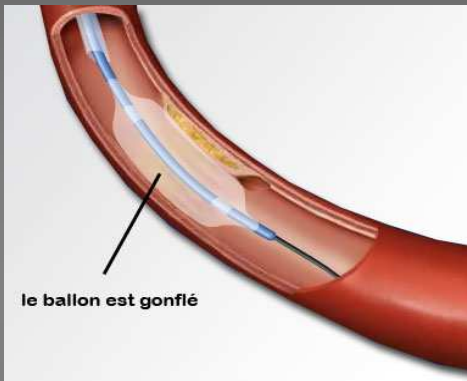
- **6 months patency** : 83.7% (stent) Vs 61.1% (PTA)

- Overall LS: 98% @ M6

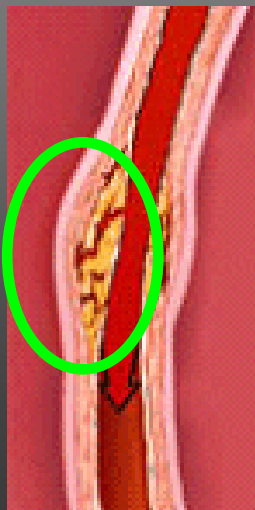
Angioplasty what does it mean ??



- Atherosclerotic lesion compression



- Atherosclerotic lesion compressed



Plaque
ruptured
=
instability

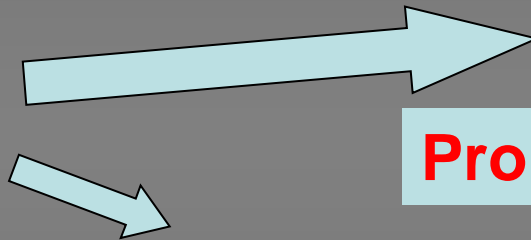
INSTABILITY

what does it mean ??



- It means risk of complications

Parietal instability

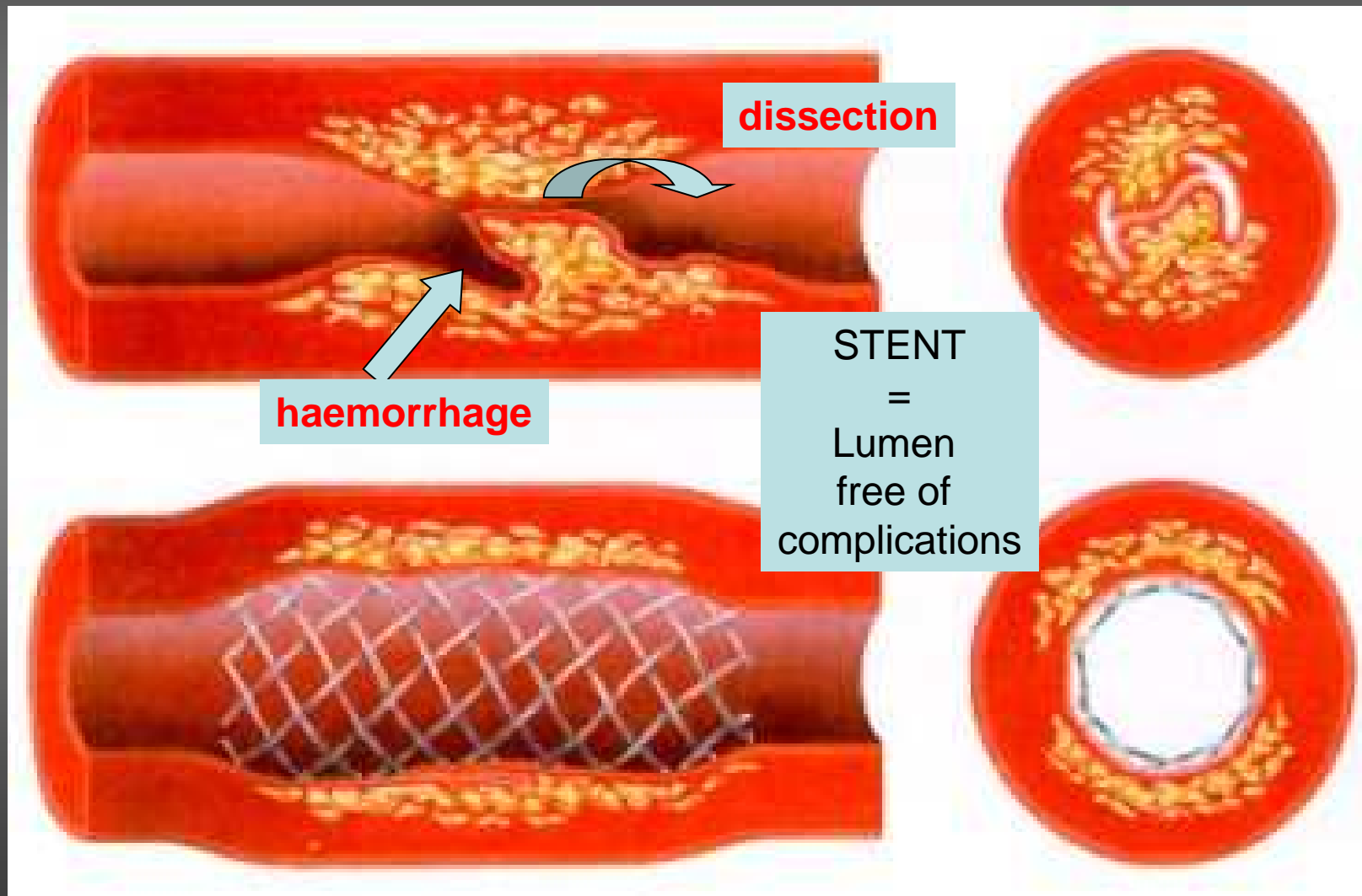


Problems !!!



**Wall support
=
security**

What is the solution ??



DATA



- M Bosiers et al. J cardiovasc Surg 2007;48:455-61.
 - 47 CLI patients – 58 BTK lesions – 67 SES (Xpert®-Abbott)
 - 1 year angiographic control
 - 20.45% restenosis
 - Patency rate = 76.3%
 - Clinical status at 1 year
 - Limb salvage = 95.9%
- F Baumann et al. J Vasc Interv Radiol 2007;18:65-73.
 - 33 patients (50 treated lesions)
 - 1 year angiographic control
 - 40% restenosis
 - Clinical status at 6 months
 - 55.9% with improvement

Thus maybe adapted stenting is efficient ?!

STENTING mandatory

- 63 years old male – debridment in an other center



BTK lesions



Taille de l'image : 1024 x 1024
Taille de la vue : 880 x 880
NF : 2973 LF : 611

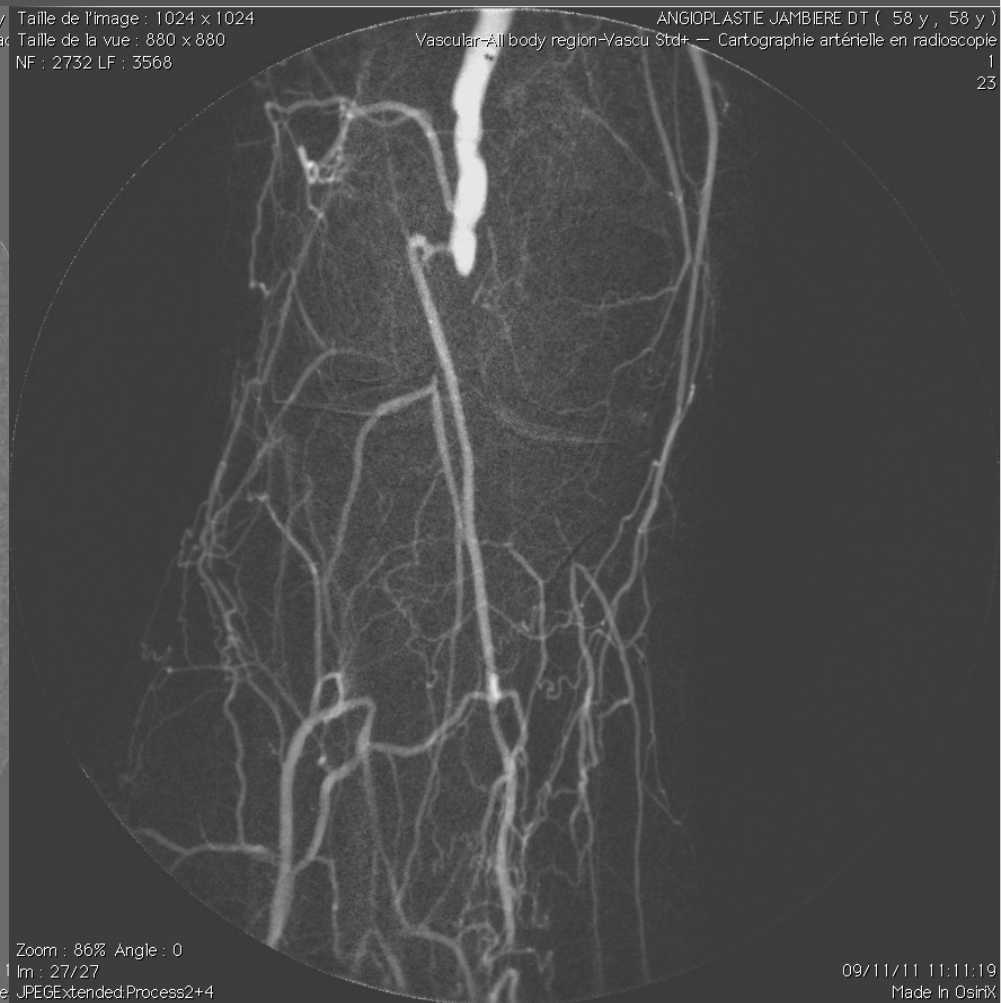
ANGIOPLASTIE JAMBIERE DT (58 y
Vascular-All body region-Vascu Std+ — Soustraction en ra



Zoom : 86% Angle : 0
Im : 37/66
JPEGExtended.Process2+4

Taille de l'image : 1024 x 1024
Taille de la vue : 880 x 880
NF : 2732 LF : 3568

ANGIOPLASTIE JAMBIERE DT (58 y , 58 y)
Vascular-All body region-Vascu Std+ — Cartographie artérielle en radioscopie

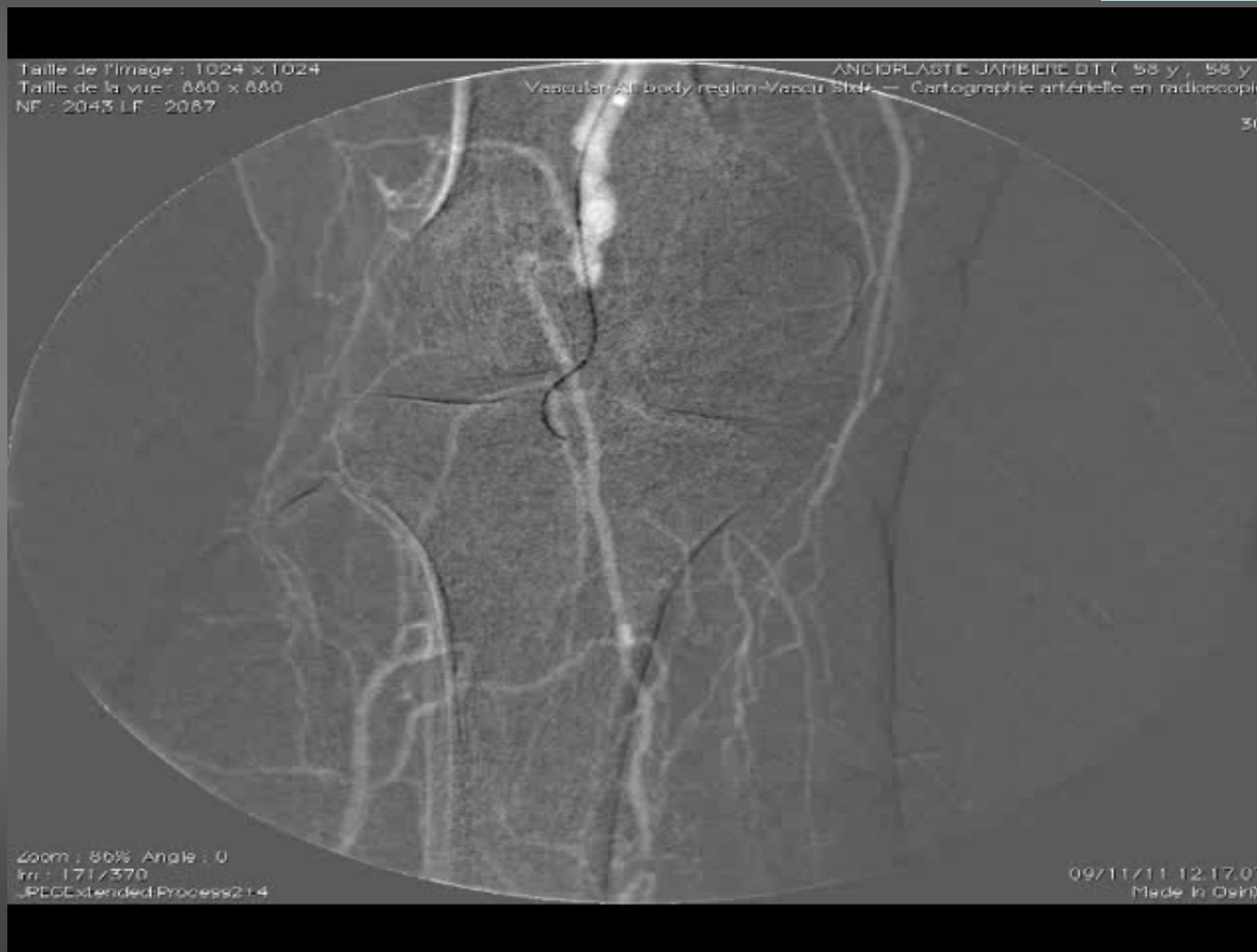


Zoom : 86% Angle : 0
Im : 27/27
Made JPEGExtended.Process2+4

09/11/11 11:11:19
Made In OsiriX

revascularisation

**0.018' wire +
support
catheter**



Long angioplasty

Balloon 4x120mm

Taille de l'image : 1024 x 1024
Taille de la vue : 880 x 880
NF : 2189 LF : 3590

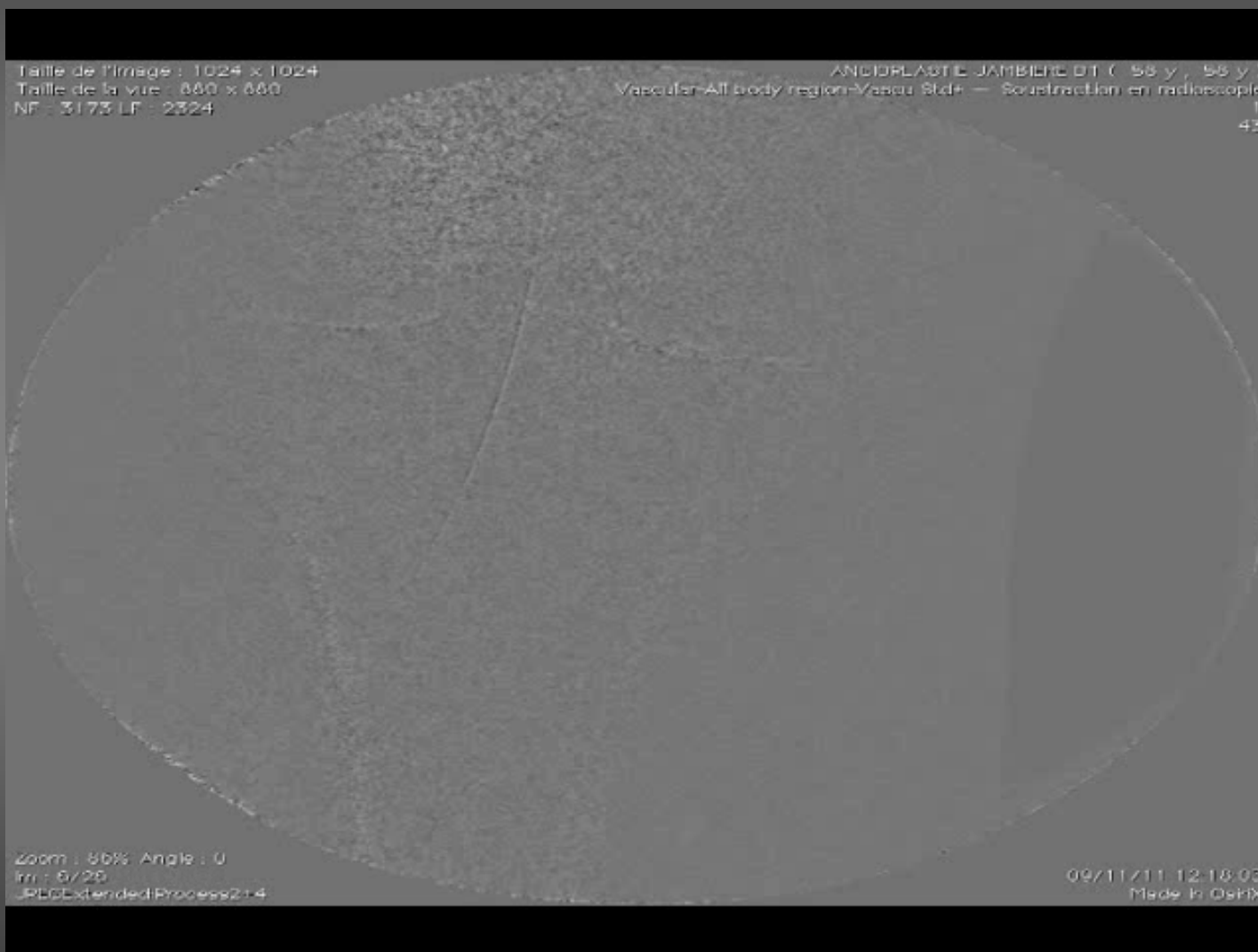
ANGIOPLASTIE JAMBIERE DT (58 y , 58 y)
Vascular-All body region-Vascu Std+ — Cont.
1
42



Zoom : 86% Angle : 0
Im : 1/1
JPEGExtended.Process2+4

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Made In OsiriX

Remaining lesions

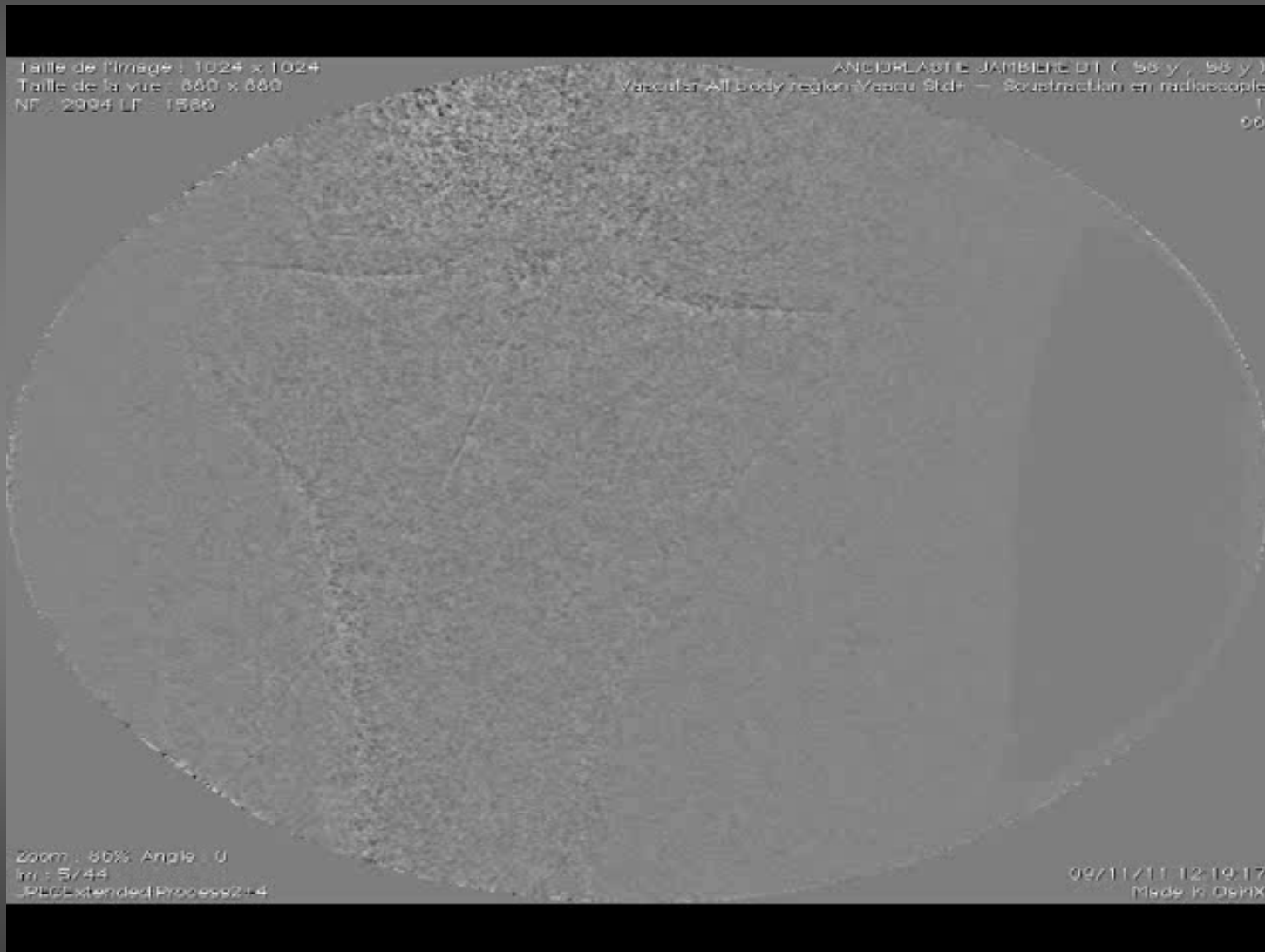


Long stenting

SES: 5x120mm

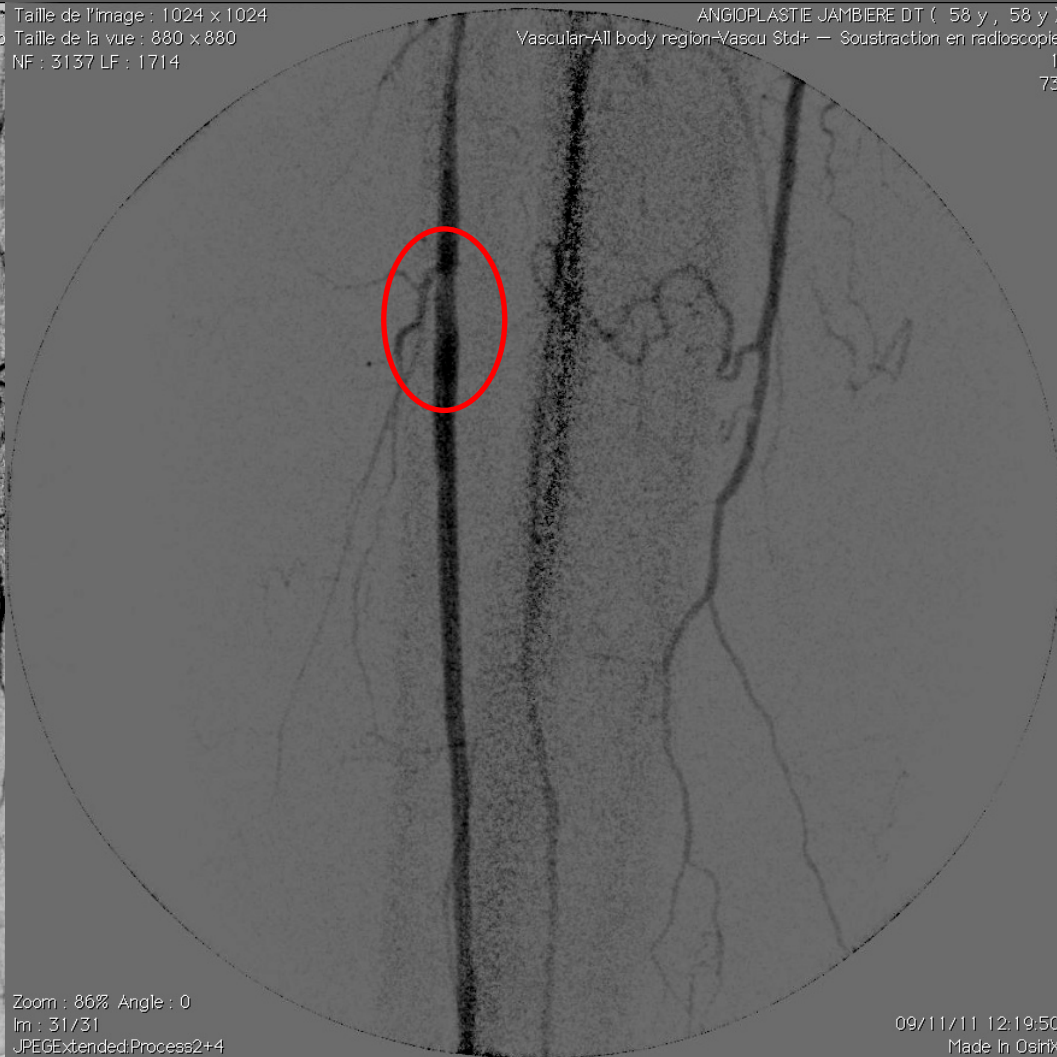
- The solution:
 - STENTING using SES 5x120 mm

Primary results



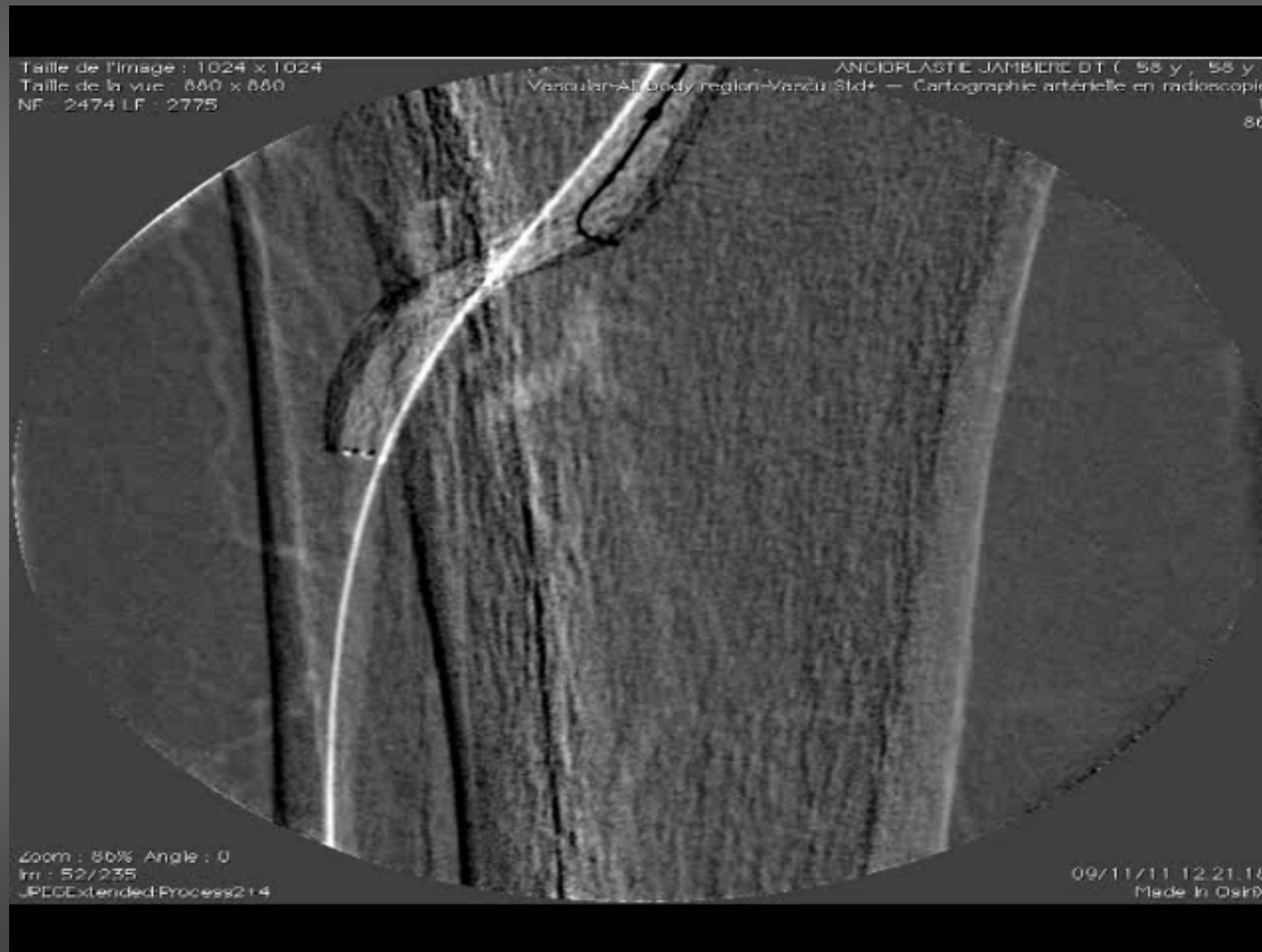
Further lesions on TAA

Balloon 2.5x20mm



In stent recanalisation

0.014 wire +
2.5mm balloon



Angioplasty

Taille de l'image : 1024 x 1024
Taille de la vue : 880 x 880
NF : 2899 LF : 6059

ANGIOPLASTIE JAMBIERE DT (58 y , 58 y)
Vascular-All body region-Vascu Std+ — Cartographie artérielle en radioscopie

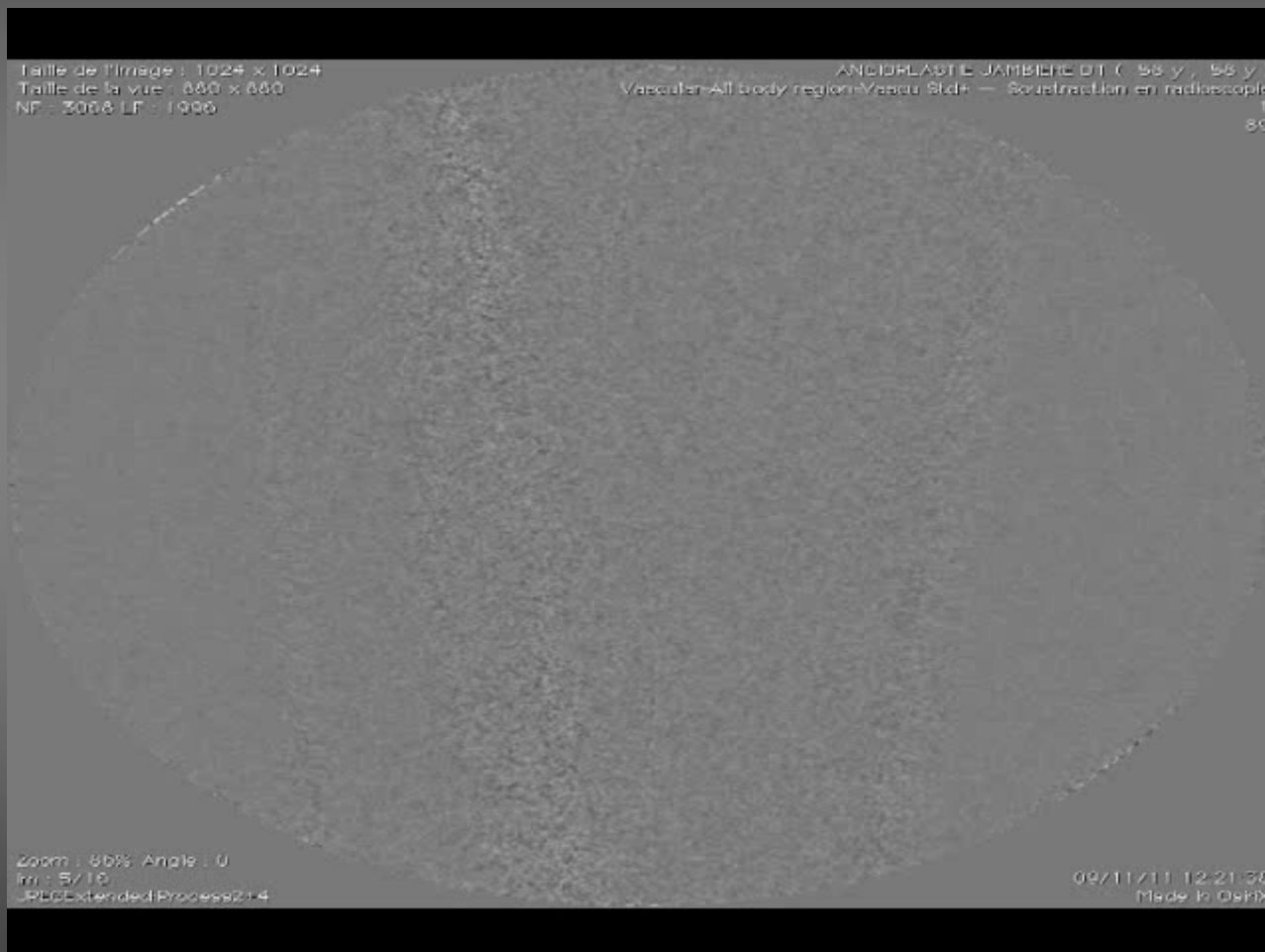
1
87



Zoom : 86% Angle : 0
Im : 89/142
JPEGExtended:Process2+4

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Result – remaining lesion



Additional stent

BES
3x10mm



Taille de l'image : 1024 x 1024
Taille de la vue : 880 x 880
NF : 2599 LF : 5753

Vascular-All body region-Vascu



Zoom : 86% Angle : 0
Im : 157/157
JPEGExtended:Process2+4

Taille de l'image : 1024 x 1024
Taille de la vue : 880 x 880
NF : 2673 LF : 3667

Vascular-All body region-Vascu



Zoom : 86% Angle : 0
Im : 108/108
JPEGExtended:Process2+4

ANGIOPLASTIE JAMBIERE DT (58 y , 58 y)

Vascular-All body region-Vascu Std+ — Cartographie artérielle en radioscopie

1
92

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Made In OsiriX

Final result



Clinical follow-up at day 6



Clinical FU at 3 weeks



Clinical FU at 4 months



Stenting SUPPORT

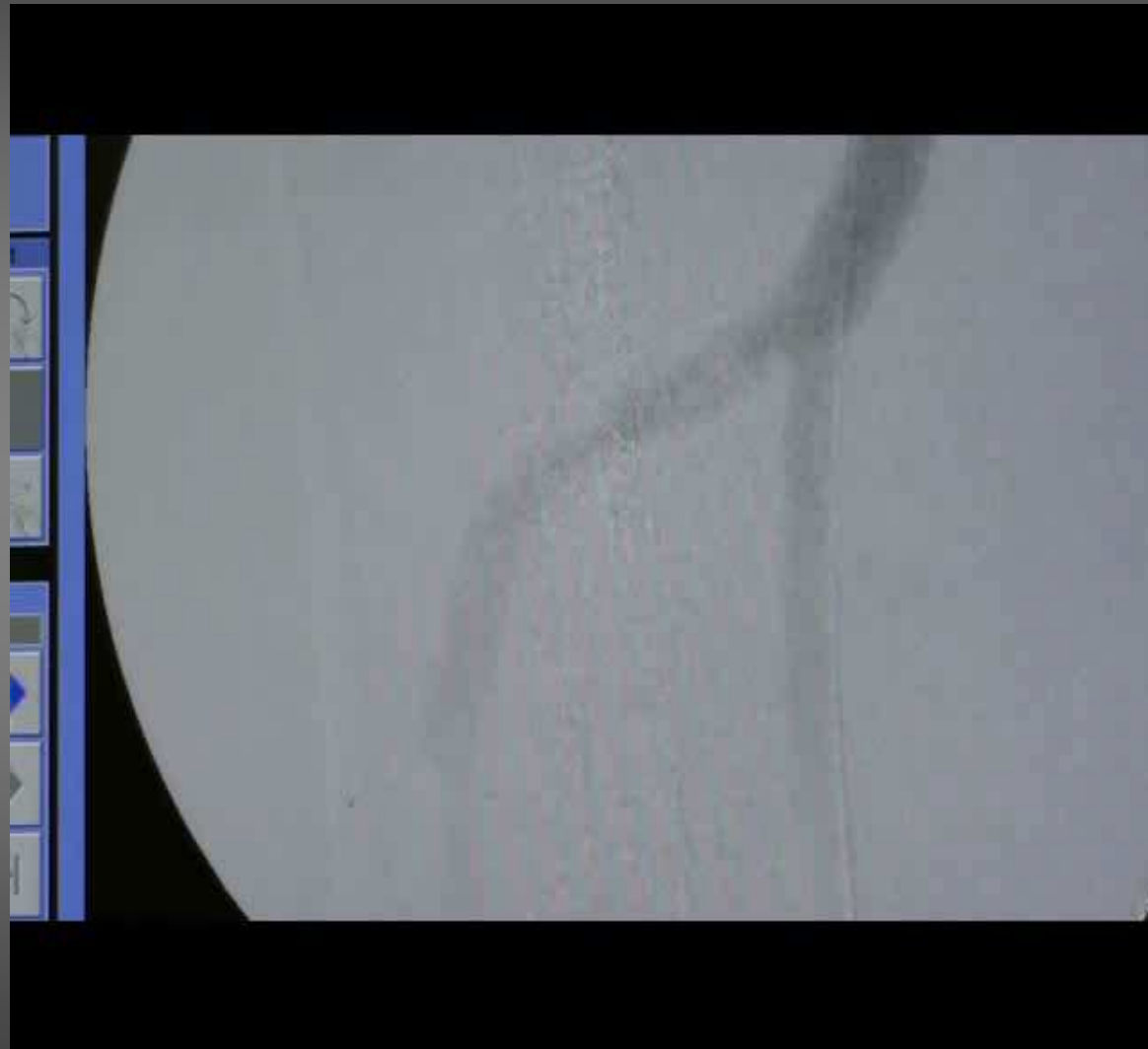


Stenting Angioplasty

DEB
3 mm – 20 mm



Final control



Clinical FU at 6 months

- Patient working, no pain, stop of antibiotic medication

Intro 6 Fr	8€97
Intro 4 Fr	88€50
0.018"	46€44
TrailBl.	95€68
4X120	173€42
SES 18"	685€75
2.5X20	173€43
0.014"	46€44
BES 14"	738€50
Intro 4 Fr	88€50
KMP	15€49
0.035"	17€82
0.018"	41€86
DEB	1076€40
TOTAL:	3297€20



CONCLUSION 1



- With a good technique and dedicated material:



CONCLUSION 2



- Most advanced endovascular treatment for peripheral lesions is efficient

BEFORE



AFTER



Thank you