



Resténose intra stent d'une lésion de bifurcation



Dr Zied Ibn Elhadj

H. A Mami, Ariana. Tunisie

Présentation clinique

- **F 60 ans**
- **1m56, 63 Kg**
- **FDRCV : HTA, ménopause**

- **SCA ST- tropono +**

- **ETT : FEVG 48% , Hypokinésie antérieure**

CORO



Im: 1/61
Sec: 1

MAROUANI HEDDI
7284/12
08/02/1954 F
Hop. A. Menni Ariana sce cardio
138/12
coronarographie
coronarographie



WL: 128 WW: 256 [D]
RAO: 7 CRA: 20

09/08/2012 10:25:42

Stratégie thérapeutique

- **Angioplastie TCG**
- **Provisional T stenting**
- **1 Stent actif Resolute Integrity 3 x 28 dans l'axe de l'IVA**
- **Final 2 steps KB**

- **Pas d'imagerie endocoronaire**

Post-dilatation expansion and DES model designs



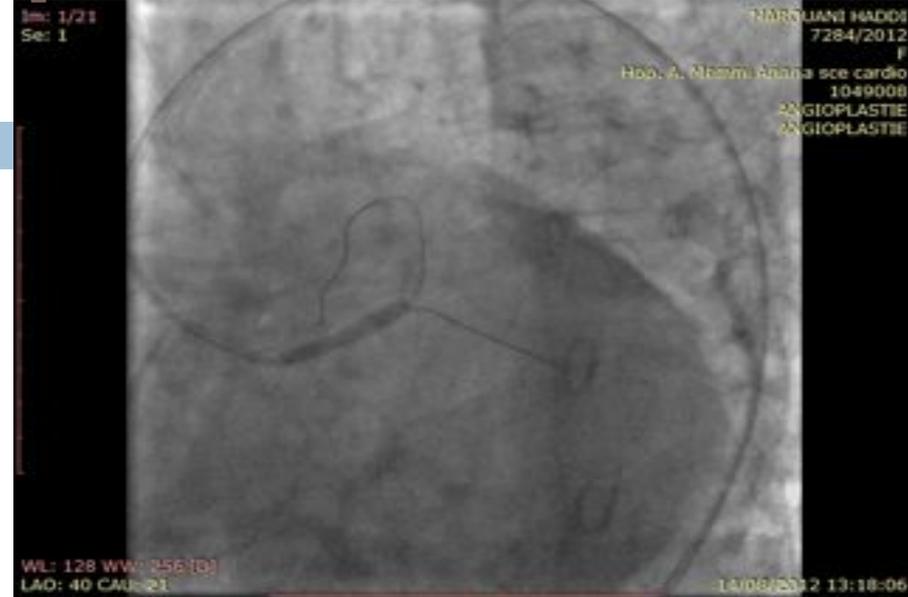
Balloon Max. size	Element	Xience	Taxus	Integrity	BioMatrix	Cypher
4.0	2.25 Very Small (2 cells) max exp.: 3.0mm	Medium vessel workhorse (8 crowns, 3 cells) max. expansion: 4.4mm	Small vessel workhorse (6 crowns, 2 cells) max expansion: 3.4mm	Small vessel workhorse (7 crowns, 2 cells*) max expansion: 4.9mm	Medium vessel workhorse (8 crowns, 2 cells) max expansion: 4.8mm	Medium vessel workhorse (8 crowns, 6 cells) max expansion: 4.7mm
	2.50 Small vessel workhorse (8 crowns, 2 cells) max expansion: 3.8mm			*1.5 cell in Resolute		
	2.75 Medium vessel workhorse (8 crowns, 2 cells) max expansion: 4.4mm		Medium vessel workhorse (9 crowns, 3 cells) max expansion: 4.8mm	Medium vessel workhorse (10 crowns, 2 cells) max expansion: 5.4mm		
5.0	3.50 Large vessel (10 crowns, 2 cells) max expansion: 5.7mm	Large vessel (9 crowns, 3 cells) max expansion: 5.6mm	Large vessel (9 crowns, 3 cells) max expansion: 6.0mm		Large vessel (8 crowns, 3 cells) max expansion: 5.9mm	Large vessel (7 crowns, 7 cells) max expansion: 5.8mm
	4.00 Large vessel (10 crowns, 2 cells) max expansion: 5.7mm					
6.0	4.50 Large vessel (10 crowns, 2 cells) max expansion: 5.7mm					
	5.00					

➤ Minimal stent LD excluding struts
 ➤ Limited to 6.0 mm balloon at 14 ATM

EuroIntervention 2013;8:1315-1325 published online ahead of print October 2012

Maximal expansion capacity with current DES platforms: a critical factor for stent selection in the treatment of left main bifurcations?

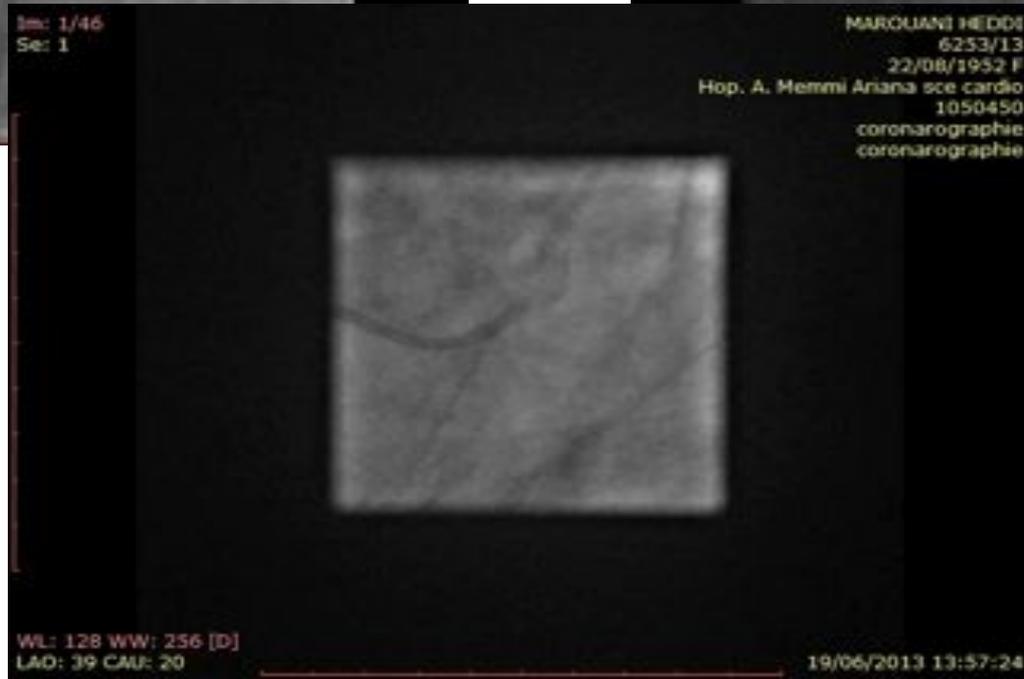
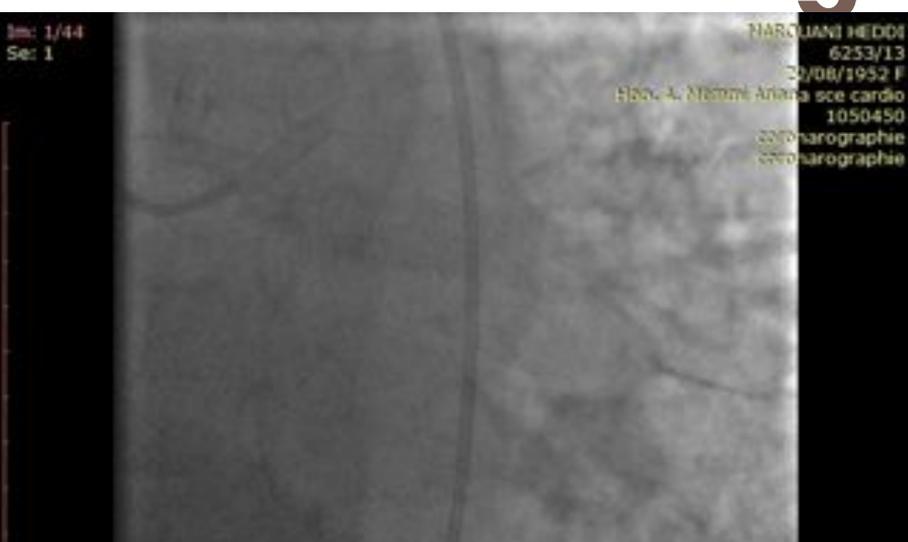
Procédure d'angioplastie



Présentation clinique : évolution

- **8 mois après**
- **Se présente pour un Angor d'effort**
- **Contrôle angiographique**

Contrôle angiographique



8 mois

□ **Pas de RIS nette**

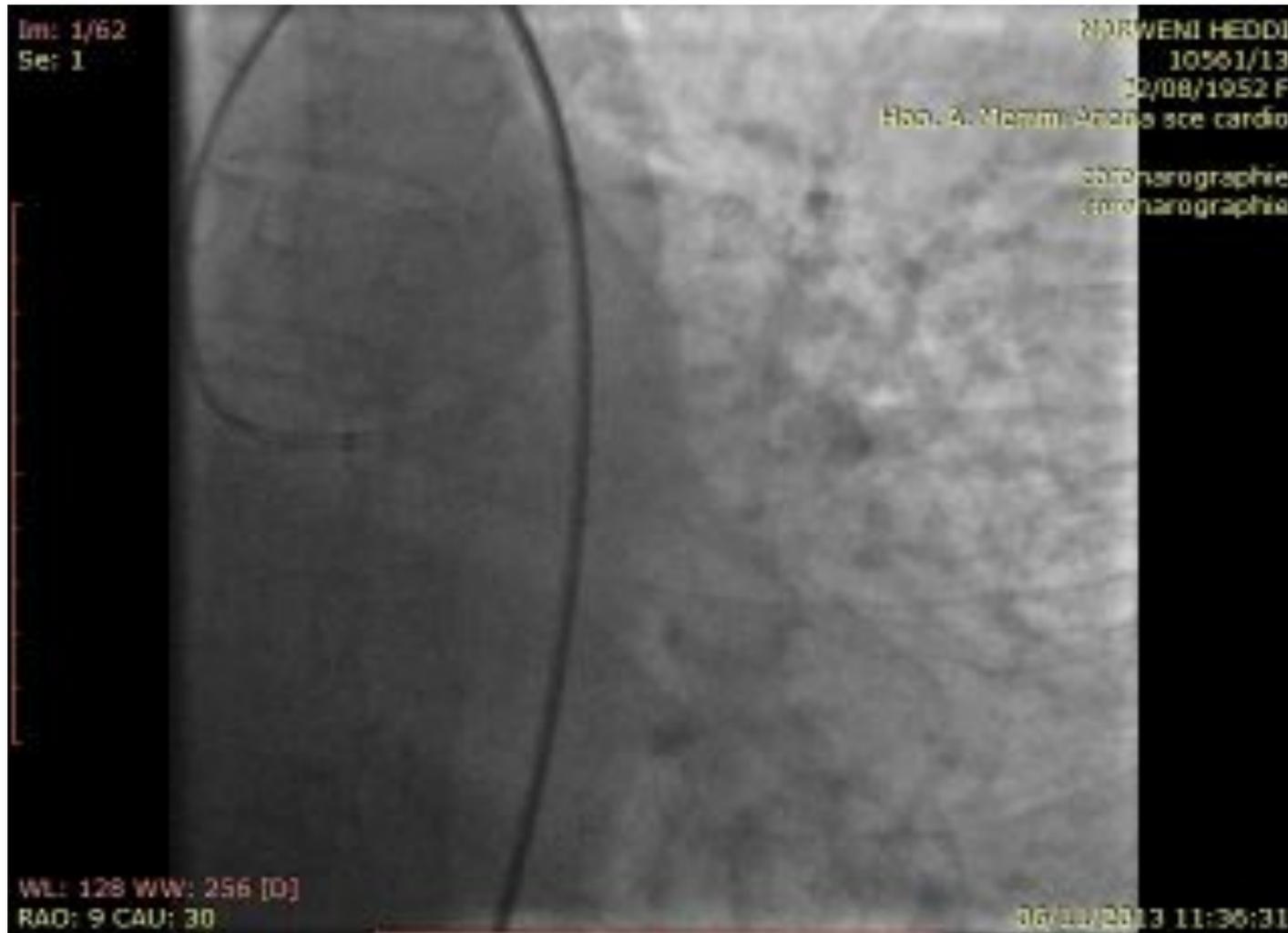
□ **Scintigraphie : pas d'ischémie**

Présentation clinique : évolution

13 mois

- **SCA ST- tropo – compliqué d'IVG
killip II**

Contrôle angiographique



ATC = agression vasculaire

Activation plaquettaire
Thromboformation

Activation des neutrophiles
circulants & macrophages
tissulaires

Production de Cytokines et de facteurs de croissance
Changement phénotypiques des cellules musculaires lisses

Prolifération cellulaire et accumulation de matrice

Resténose

Pr. Emmanuel TEIGER,

Study name	N. of centres	Countries	N. patients	Type of DES	Length of follow-up (yrs)	Angio follow-up (%)	Angiographic restenosis (%)	TLR (%)	TVR (%)
Valgimigli et al ¹	1	The Netherlands	110	50% PES, 50% SES	1.8	66	17.8		10
Park et al ²	2	Korea/USA	102	100% SES	1	84.3	5.9	2	
Kim et al ³	1	Korea	116	100% SES	1.5	84.5	13.8	5.2	
Migliorini et al ⁴	1	Italy	101	SES/PES	0.5		16		13.8
Chieffo et al ⁵	5	Italy, Netherlands, Korea	147	73% SES, 27% PES	2.5	72.1	0.9	0.7	4.7
DELFT ⁶	7	USA/Italy	358	55% SES 45% PES	3.5	71.2		5.8	14.2
Gao et al ⁷	1	China	220	SES/PES	1.3	46.4			5.9
Palmerini et al ⁸	19	Italy	1,111	97% SES or PES	2			11.8	
MAIN COMPARE ¹¹	12	Korea	858	SES/PES	3				10.7
FAILS ¹²	6	Italy, UK, USA	718	PES/SES/ZES	3	62.8	9.8		21.4
Tamburino et al ¹³	19	Italy	334	SES/PES	3	69		7.9	
ASAN-MAIN ¹⁴	1	Korea	176	SES PES	5			13.2	16.2
Lee et al ¹⁵	1	Korea	509	97% SES or PES	3.4	80.1	17.7	10.0	
FRIEND ¹⁶	23	France	151	PES	3	88		2.3	
LEMAX ¹⁷	4	France	173	EES	1	47		2.9	7
PRECOMBAT-2 ¹⁸	21	Korea	334	EES	1.6	60.8	9.2		6.5
MITO ¹⁹	2	Italy, Japan	565	89% SES 10% PES 1% ZES	0.6	80.1	17.5	16.1	
French Left Main TAXUS ²⁰	4	France	291	PES	5			10.3	11.0

DES: drug-eluting stent; EES: everolimus-eluting stent; PES: paclitaxel-eluting stent; SES: sirolimus-eluting stent; TLR: target lesion revascularisation; TVR: target vessel revascularisation; ZES: zotarolimus-eluting stent

Définition et incidence de la RS du TCG

Study name	N. of centres	Countries	N. patients	Type of DES	Length of follow-up (yrs)	Angio follow-up (%)	Angiographic restenosis (%)	TLR (%)	TVR (%)
ISAR-LEFT MAIN ²¹	1	Germany	607	PES/SES	2	87.1	16-19%	7.2	
SYNTAX LM ²²	85	Europe, US	357	PES	1				11.8
Boudriot et al ²³	2	Germany	100	PES	1	95	9.0		14.0
PRECOMBAT ²⁴	13	Korea	300	EES	2	75.3			6.1

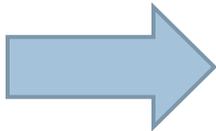
DES: drug-eluting stent; EES: everolimus-eluting stent; PES: paclitaxel-eluting stent; SES: sirolimus-eluting stent; TLR: target lesion revascularisation; TVR: target vessel revascularisation

Clinical predictors of ULM restenosis

- **Diabete IN**
- **IRn**
- **Localisation : TCG distal**
- **Strategie à deux stents**

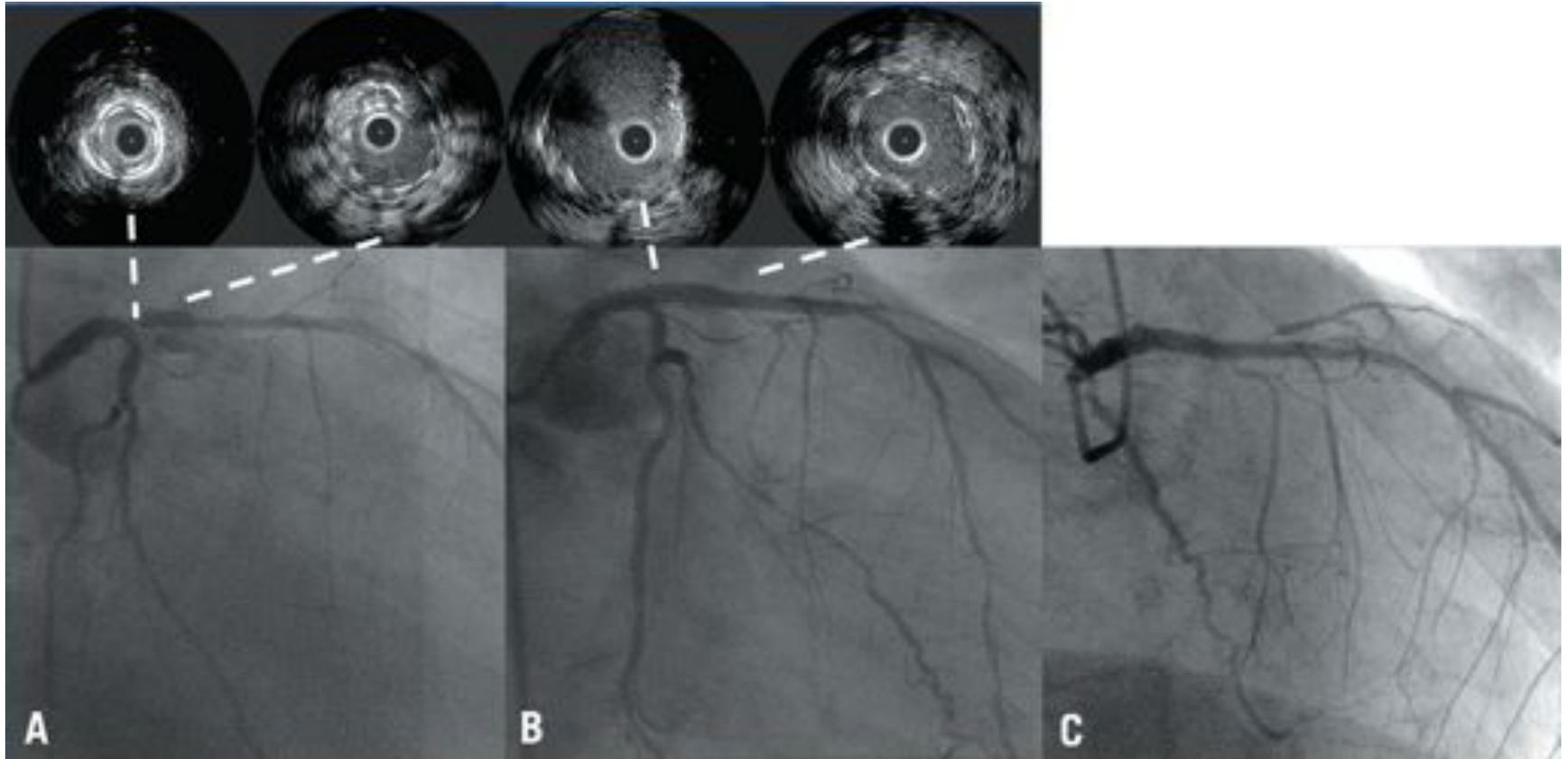
Mechanisms of ULM restenosis

- **Deux phénomènes sont prépondérants dans le mécanisme de la resténose:**
 - **Mal apposition du stent : facteur prédictif independant de survenu de MACE**
 - **Proliferation néointimale : échec de la drogue**

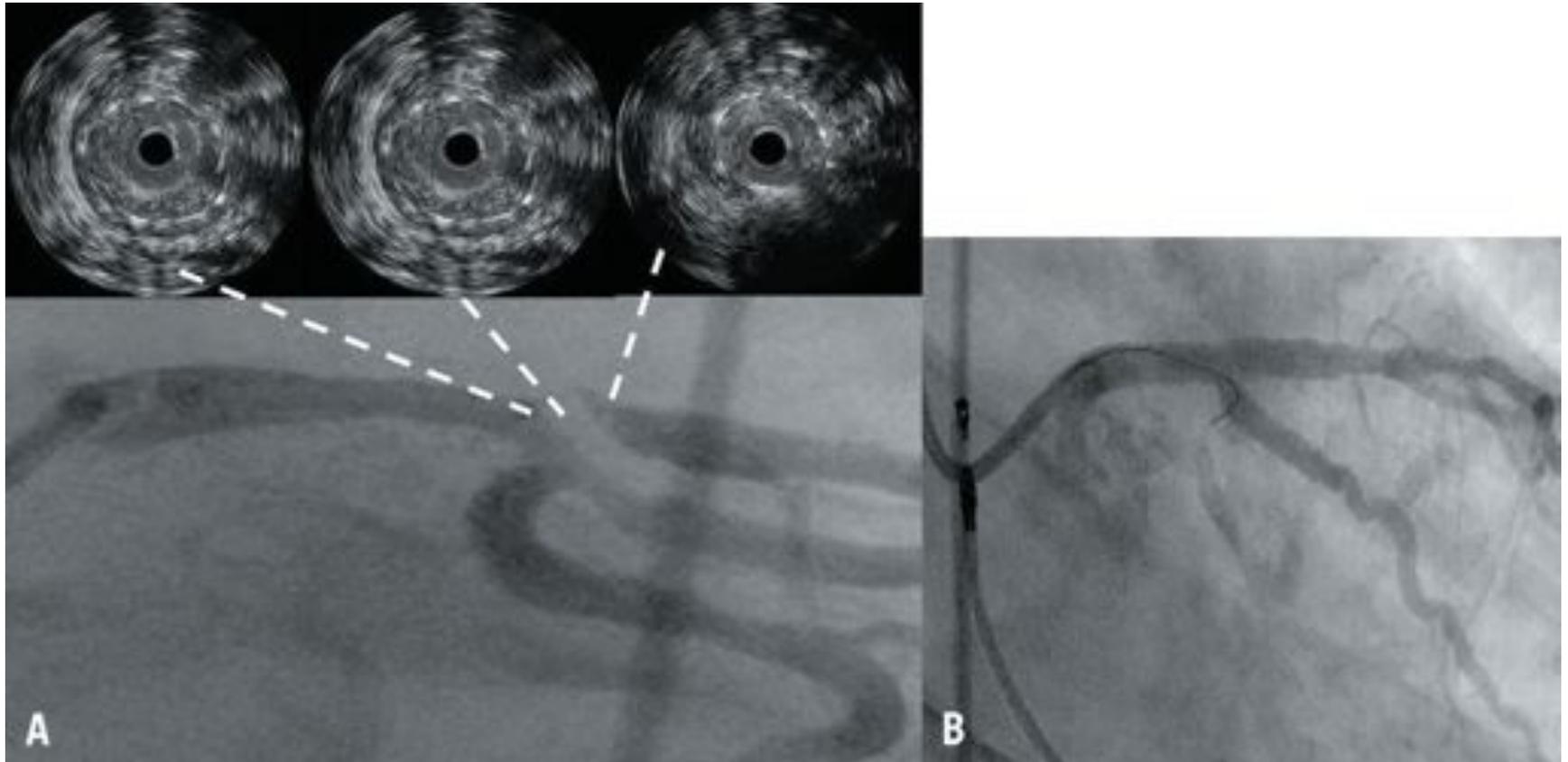


IVUS / OCT : mécanisme et guider la stratégie du traitement

Mal expansion du stent

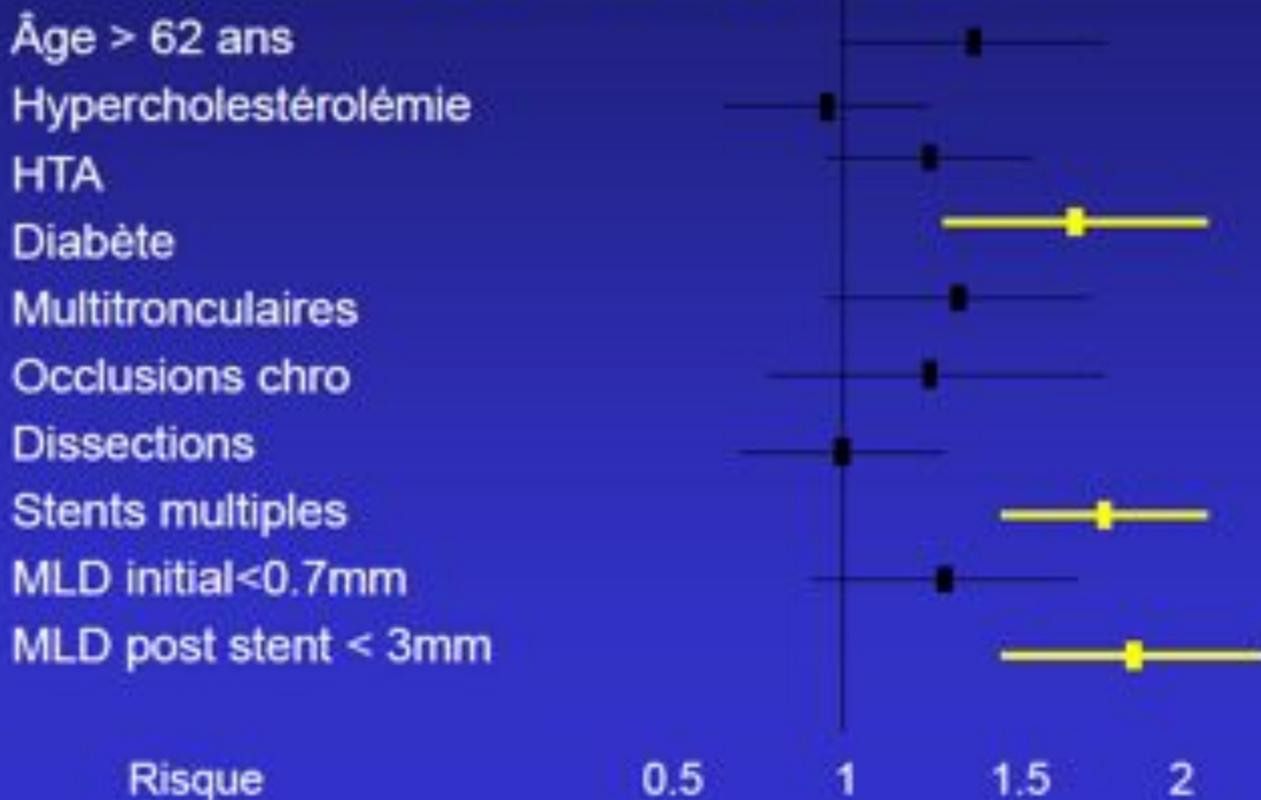


Prolifération neo intimale



Predictive factors of restenosis after coronary stent placement.

A Kastrati. JACC 1997 ; 30 : 1428-36



Unprotected Left Main Coronary Artery Stenting: Immediate and Medium-Term Outcomes of 140 Elective Procedures

Marc Silvestri, MD, Paul Barragan, MD, Joël Sainsous, MD, Gilles Bajet, MD, Jean-Baptiste Simioni, MD, Pierre-Olivier Roquebert, MD, Gilles Macaluso, MD, Jean-Louis Bouvier, MD, Bertrand Comet, MD

Marseille, France

OBJECTIVES We sought to evaluate immediate and late outcomes after stenting for left main coronary artery (LMCA) stenosis.

BACKGROUND Conventional percutaneous transluminal coronary angioplasty (PTCA), for which coronary artery bypass grafting (CABG) has been the gold standard therapy for years, has yielded poor results in unprotected LMCA lesions. The development of coronary stents, together with their dramatic potency improvement provided by new antiplatelet regimens and their validation against restenosis, warrants a reappraisal of angioplasty in LMCA stenosis.

METHODS From January 1993 to September 1998, 140 consecutive unselected patients with unprotected LMCA stenosis underwent elective stenting. Group I included 47 high-CABG-risk patients, and group II included 93 low-CABG-risk patients. Ticlopidine without aspirin was routinely started at least 72 h before the procedure and continued for one month. Patients were reevaluated monthly. A follow-up angiography was requested after six months.

RESULTS The procedure success rate was 100%. One-month mortality was 9% (4/47) in group I and 0% in group II. A follow-up angiography was obtained in 82% of cases, and target lesion revascularization was required in 17.4%. One-year actuarial survival was 99% in the first 29 group I patients and 97.5% in the first 63 group II patients.

CONCLUSIONS Stenting of unprotected LMCA stenosis provided excellent immediate results, particularly in good CABG candidates. Medium-term results were good, with a restenosis rate of 23%, similar to that seen after stenting at other coronary sites. Stenting deserves to be considered a safe and effective alternative to CABG in institutions performing large numbers of PTCA. (J Am Coll Cardiol 2000;35:1343-50) © 2000 by the American College of Cardiology

Immediate Results and Long-Term Clinical Outcome of Patients With Unprotected Distal Left Main Restenosis

The CORPAL Registry (Córdoba and Las Palmas)

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Francisco Mansoles, MD, PhD,* Javier Suárez de Leizaola, MD, PhD,*
Miguel Romero, MD, PhD,* José Segura, MD, PhD,* Djordje Pavlovic, MD, PhD,*
Alfonso Molina, MD, PhD,† José Suárez de Leizaola, MD, PhD*

Córdoba and Las Palmas de Gran Canaria, Spain

Objectives: The goal of this study was to assess the immediate and long-term outcomes in patients undergoing percutaneous coronary intervention (PCI) for in-stent restenosis (ISR) in an unprotected distal left main coronary artery (UDLM).

Background: PCI for UDLM-ISR can be complex. Limited information is available on procedural and clinical outcomes.

Methods: Between May 2002 and February 2011, UDLM-ISR after drug-eluting stent implantation was observed in 79 of 1,102 patients (7%). Seventy-five were treated by repeat PCI using a simple approach (balloon/in-stent implantation) or a complex strategy (additional stents/double-stenting technique). A diagnosis of mild or severe restenosis was considered depending on the number of bifurcation segments affected (1 vs. >1). Major adverse cardiac events (MACE) were defined as cardiac death, target lesion revascularization, and myocardial infarction.

Results: ISR treatment was performed using a simple approach in 44 (58%) patients, and using a complex strategy in 31 (42%). After 46 ± 26 months, the MACE rate was 22%. Patients treated with a simple approach had a lower incidence of MACE at follow-up compared with patients treated with a complex strategy, regardless of the restenosis extent (mild restenosis: 9% vs. 67%, $p < 0.05$; severe: 70% vs. 23%, $p < 0.05$). On Cox regression analysis, diabetes was the only predictor of MACE (hazard ratio [HR]: 4.94; 95% confidence interval [CI]: 1.03 to 23.70, $p < 0.05$), whereas a simple strategy for ISR treatment was associated with lower risk (HR: 0.25; 95% CI: 0.08 to 0.79; $p = 0.02$).

Conclusions: PCI for UDLM-ISR is safe and feasible, with a high rate of procedural success and an acceptable long-term MACE rate. A simple strategy, when applicable, appears to be a good treatment option, associated with a lower event rate at follow-up. (J Am Coll Cardiol Intv 2014;7:212–21)

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**1,102 patients with LM bifurcation involvement
undergoing PCI with DES**

**Lost to follow-up
8 (<1%) patients**

Angiographic assessment
driven by symptoms or signs
of ischemia

**1,094 (99%) patients with
available follow-up**

**Clinically driven TLR
79 (7%) patients**

**4 (5%) patients
treated with CABG**

**75 (95%) patients
treated with repeat PCI**

Figure 1. Study Flow Chart—Overall Study Profile

CABG = coronary artery bypass graft; DES = drug-eluting stents; LM = left main coronary artery; PCI = percutaneous coronary intervention; TLR = target lesion revascularization.

**2 centres à haut
Volumes.**

**1,102 patients with LM bifurcation involvement
undergoing PCI with DES**

Prov T : 90%

**Lost to follow-up
8 (<1%) patients**

Angiographic assessment
driven by symptoms or signs
of ischemia

**1,094 (99%) patients with
available follow-up**

**Au moins 2 ans de
suivi clinique.**

**Clinically driven TLR
79 (7%) patients**

Jusqu'à 4 ans

**4 (5%) patients
treated with CABG**

**75 (95%) patients
treated with repeat PCI**

Figure 1. Study Flow Chart—Overall Study Profile

CABG = coronary artery bypass graft; DES = drug-eluting stents; LM = left main coronary artery; PCI = percutaneous coronary intervention; TLR = target lesion revascularization.

Mécanisme de la RIS

- un IVUS a été réalisé chez 79% des patients.
- Stent underexpansion : 14% des patients.
- Drug failure : 83% des patients.

Traitement de la RIS

- A simple approach : 58% (POBA : 17% ; stent in-stent 41%).
- A complex strategy : 42% (1 additional stent 30% ; 2-stent implantation 12%).

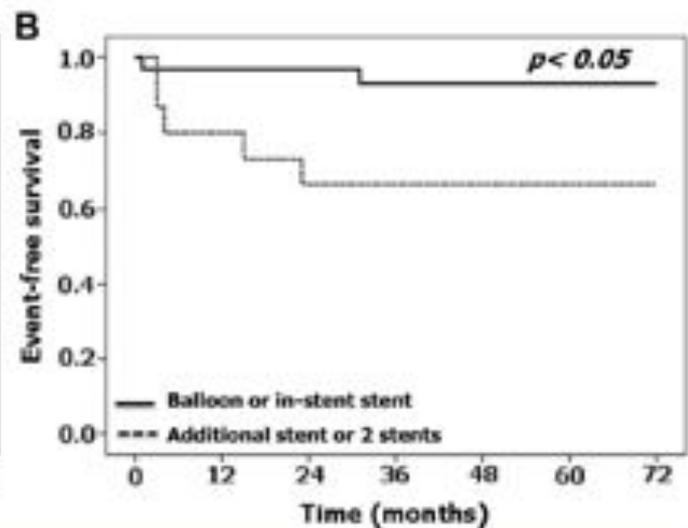
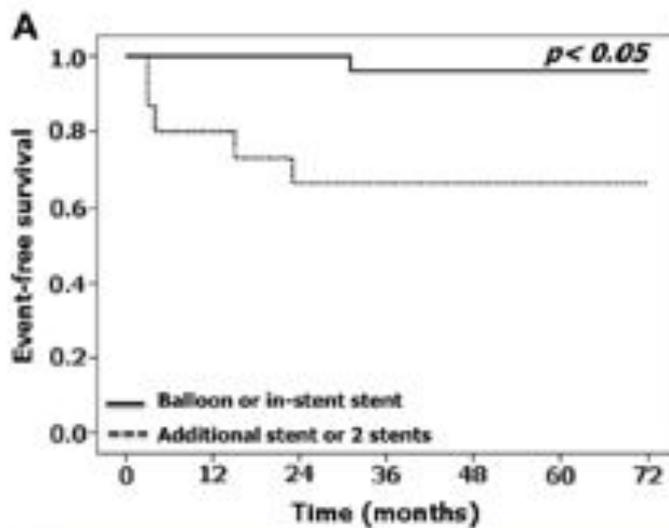


Figure 5. Event-Free Survival According to the Restenosis Treatment Modality in Patients With Restenosis Affecting Only 1 Bifurcation Segment
 Medina classification of the bifurcation lesions (1, 0, 0), (0, 1, 0), and (0, 0, 1) are shown. (A) Target lesion revascularization. (B) Major adverse cardiac events.

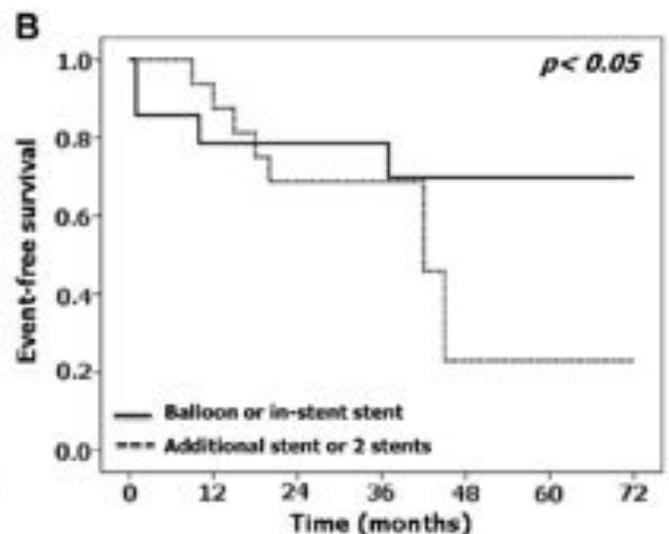
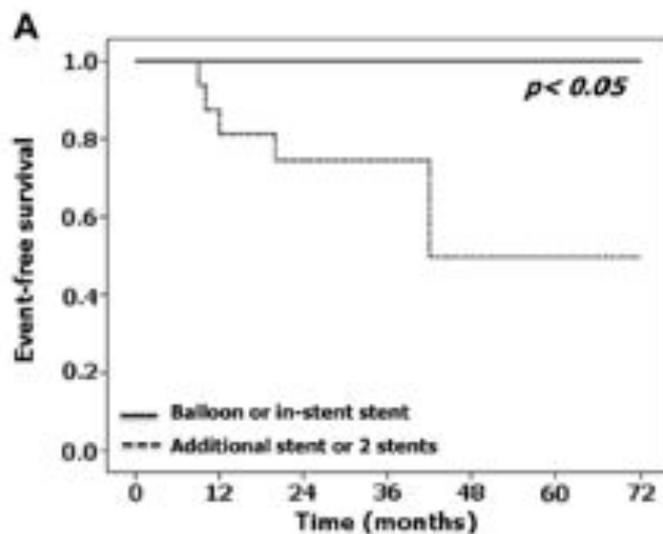


Figure 6. Event-Free Survival According to the Restenosis Treatment Modality in Patients With Restenosis Affecting More Than 1 Bifurcation Segment
 Medina classification of the bifurcation lesions (1, 1, 0), (1, 0, 1), (0, 1, 1), and (1, 1, 1) are shown. (A) Target lesion revascularization. (B) Major adverse cardiac events.

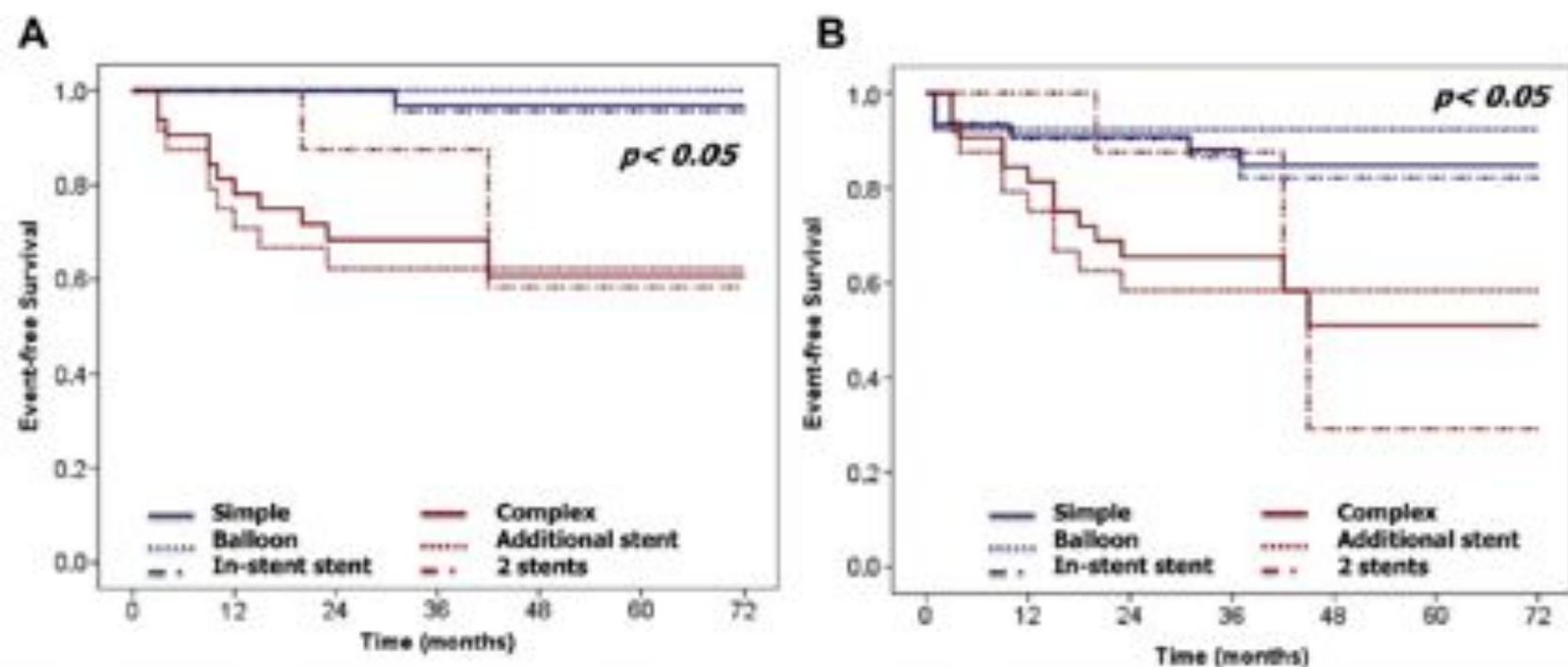


Figure 4. Event-Free Survival According to the Restenosis Treatment Modality in the Global Series

(A) Target lesion revascularization. **(B)** Major adverse cardiac events.

Table 3. Univariate and Multivariate Predictors of MACE at Follow-Up

	Univariable HR (95% CI)	p Value	Cox Regression Adjusted HR (95% CI)	p Value
Age \geq 70 yrs	2.20 (0.89–5.49)	0.1		
EF <45%	3.63 (1.35–9.78)	0.01		
Diabetes mellitus	3.05 (1.00–9.28)	0.05	4.94 (1.03–23.70)	0.046
Restenosis extension: 1 bifurcation segment	0.31 (0.12–0.78)	0.014		
Treatment strategy: simple approach	0.30 (0.12–0.78)	0.013	0.25 (0.08–0.79)	0.02

CI = confidence interval; EF = ejection fraction; HR = hazard ratio; MACE = major adverse cardiac events.

Clinical and Procedural Predictors of Suboptimal Outcome After the Treatment of Drug-Eluting Stent Restenosis in the Unprotected Distal Left Main Stem

The Milan and New-Tokyo (MITO) Registry

Kensuke Takagi, MD; Alfonso Ielasi, MD; Joanne Shannon, MD; Azeem Latib, MD; Cosmo Godino, MD; Giedrius Davidavicius, MD; Marco Mussardo, MD; Santo Ferrarello, MD; Filippo Figini, MD; Mauro Carlino, MD; Matteo Montorfano, MD; Alaide Chieffo, MD; Sunao Nakamura, MD; Antonio Colombo, MD

Background—Few data are available regarding the optimal revascularization strategy for unprotected distal left main coronary artery (UDLM) in-stent restenosis (ISR).

Methods and Results—Between April 2002 and December 2008, UDLM-ISR following drug-eluting stent (DES) implantation occurred in 92 of 474 patients (19.4%). Of these, 8 (8.7%) who underwent a coronary artery bypass graft (CABG) were excluded, and the remaining 84 (91.3%) who underwent percutaneous coronary intervention (PCI) (43 plain old balloon angioplasty [POBA] and 41 DES) were analyzed to assess the feasibility of PCI for UDLM-ISR. The overall cardiac death, myocardial infarction (MI), and major adverse cardiac events during the follow-up period (median, 24 months) occurred in 4, 2, and 31 patients, respectively. Repeat target lesion revascularization (TLR) occurred in 28 patients. The incidence of repeat TLR was higher following PCI with POBA than with DES (hazard ratio [HR], 2.79; 95% CI, 1.23–6.34; $P=0.014$). On Cox regression analysis, the independent predictors of repeat TLR were treatment with POBA (HR, 3.29; 95% CI, 1.41–7.69; $P=0.006$) and EuroSCORE (European System for Cardiac Operative Risk Evaluation) >6 (HR, 2.53; 95% CI, 1.02–6.28; $P=0.045$). More complex lesions requiring a 2-stent strategy were associated with a higher occurrence of TLR for restenosis of the left circumflex coronary artery ostium (LCX-ISR) (HR, 2.51; 95% CI, 1.59–3.97; $P=0.001$) as well as repeat TLR for recurrent LCX-ISR (HR, 4.32; 95% CI, 0.97–19.20; $P=0.05$) compared to a 1-stent strategy. No cardiac death at 2 years occurred in patients with LCX-ISR.

Conclusions—UDLM restenosis is better treated with DES than with POBA. The rate of recurrent ISR following repeat PCI was high, whereas the rates of MI and death were relatively low. Complex lesions requiring a 2-stent strategy had a higher recurrence rate at the ostial LCX but without an associated increased risk of MI and death. (*Circ Cardiovasc Interv.* 2012;5:491-498.)

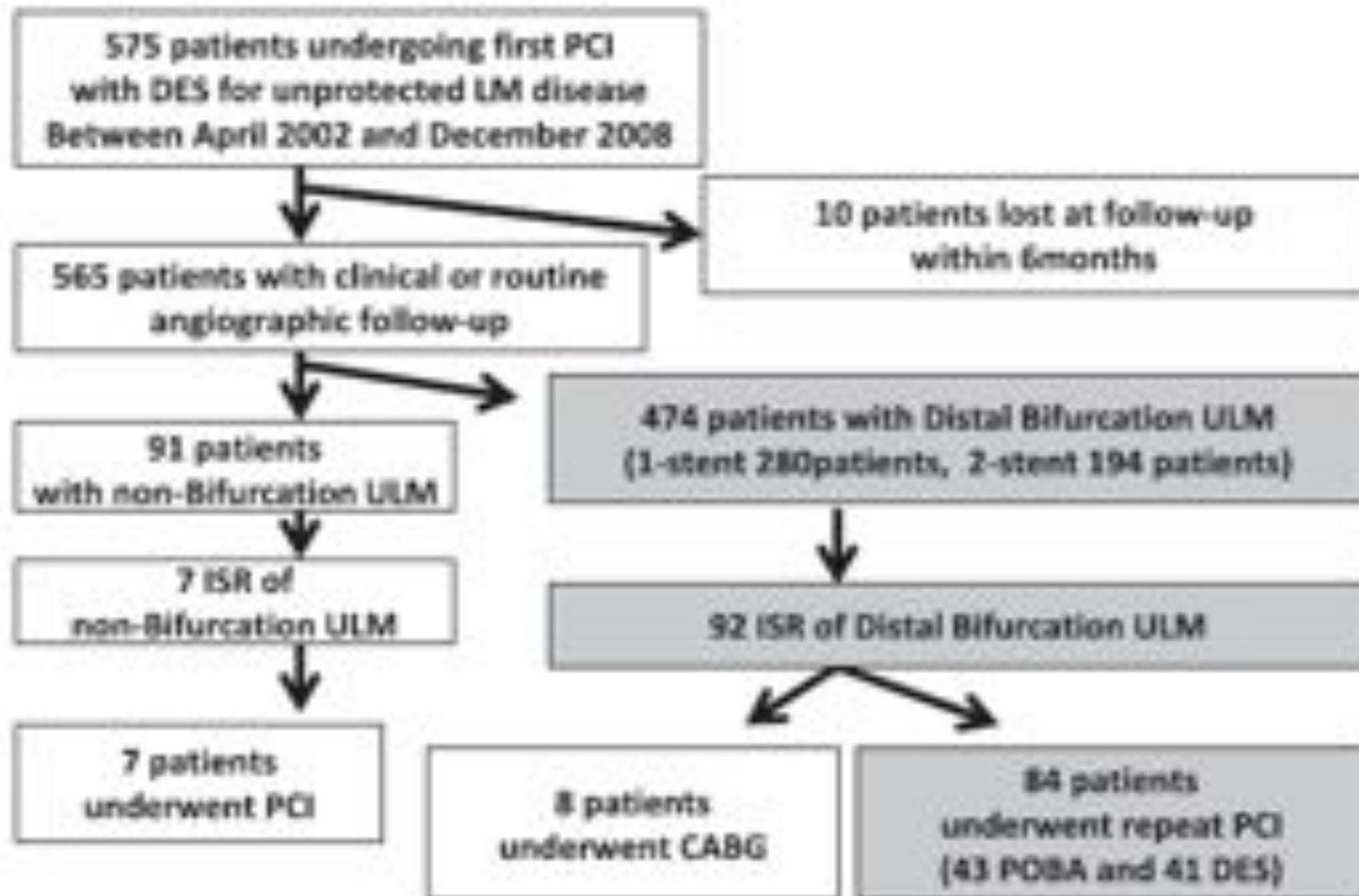
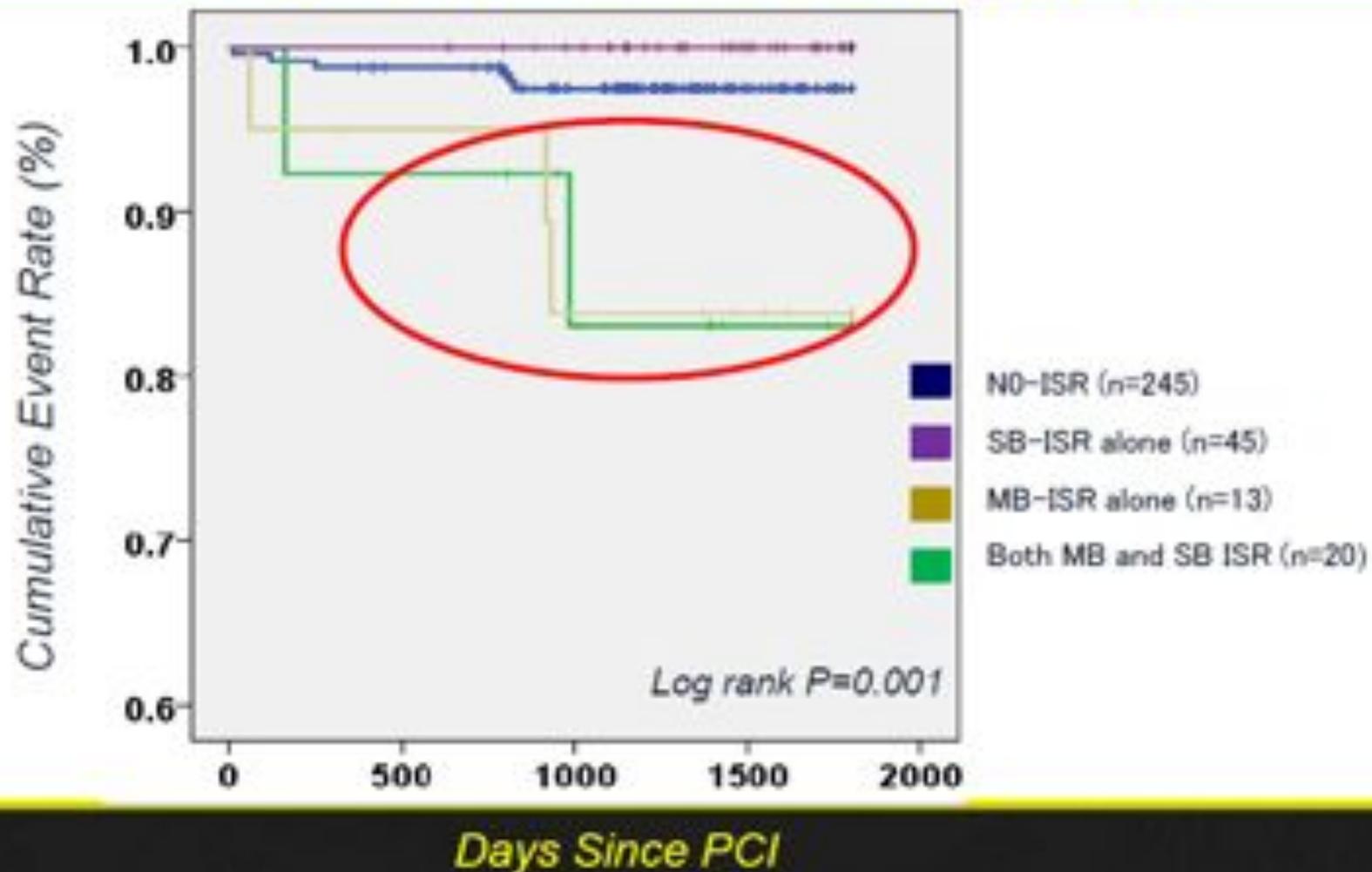


Figure 1. Study profile: Milan and New-Tokyo between April 2002 and December 2008. CABG indicates coronary artery bypass graft; DES, drug-eluting stents; LM, left main coronary artery; PCI, percutaneous coronary intervention; POBA, plain old balloon angioplasty; ULM, unprotected left main coronary artery.

The Milan and New-TOKyo (MITO) Registry

Cardiac-death according to ISR type in patients with f/u angiography



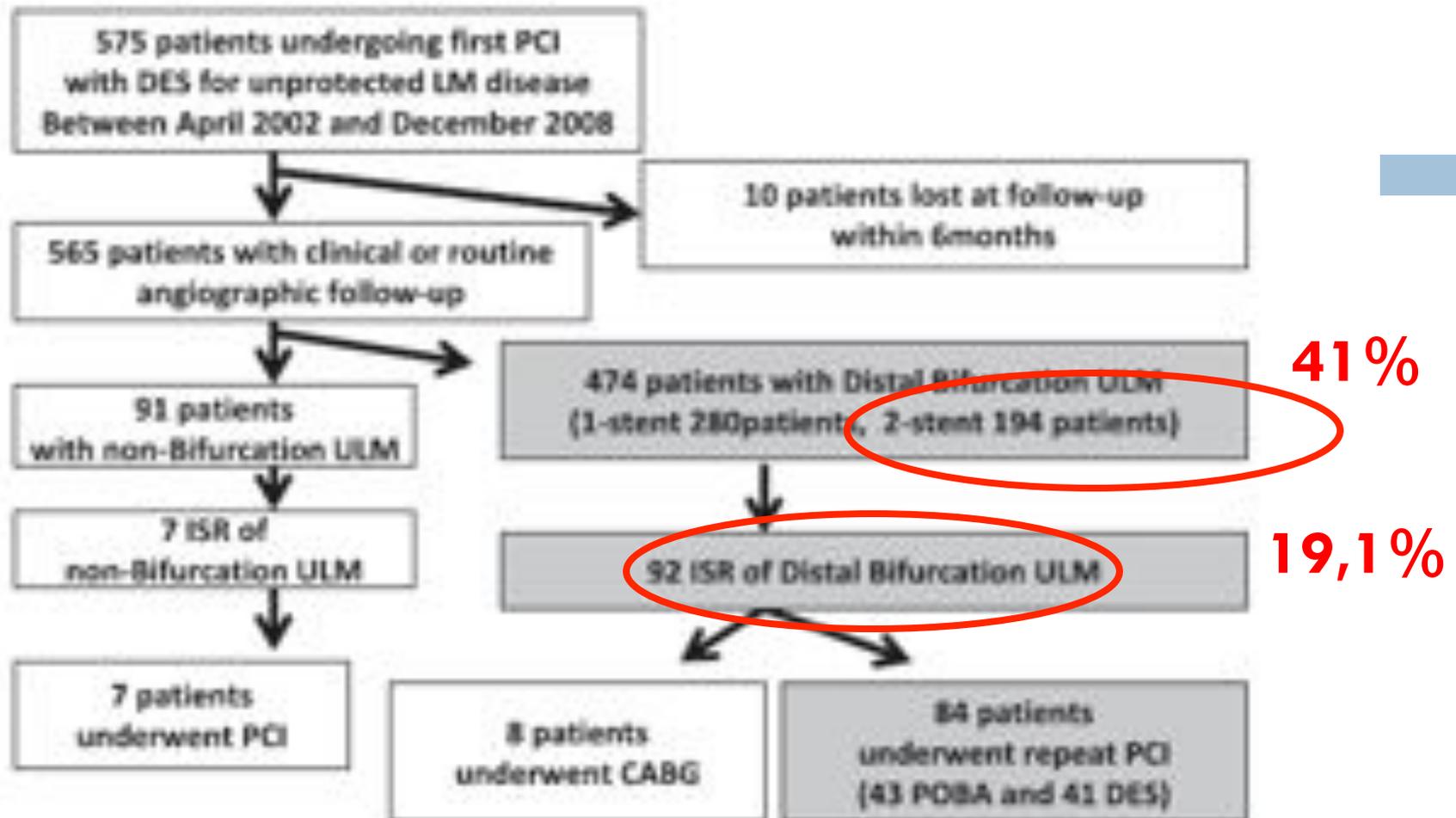


Figure 1. Study profile: Milan and New-Tokyo between April 2002 and December 2008. CABG indicates coronary artery bypass graft; DES, drug-eluting stents; LM, left main coronary artery; PCI, percutaneous coronary intervention; POBA, plain old balloon angioplasty; ULM, unprotected left main coronary artery.

Table 2. Baseline Angiographic and Procedural Characteristics of Patients Treated for UDLM DES-ISR

Patients	Overall UDLM DES-ISR That Underwent PCI (n=84)	UDLM DES-ISR Treated With POBA (n=43)	UDLM DES-ISR Treated With DES (n=41)	P Value
LM+3VD	33 (39.3)	10 (23.3)	23 (56.1)	0.01
True-bifurcation Medina 1-1-1, 1-0-1, 0-1-1	64 (76.2)	30 (69.8)	34 (82.9)	0.20
SYNTAX score	31.30±9.82	30.39±9.62	32.36±10.09	0.39
SYNTAX >33	29 (34.5)	13 (30.2)	16 (39.0)	0.49
IASP	10 (11.9)	1 (2.3)	9 (22.0)	0.01
MUS	41 (48.8)	25 (58.1)	16 (39.0)	0.09
Rotational atherectomy	8 (9.5)	5 (11.6)	3 (7.3)	0.71
Only SES	75 (89.3)	40 (93.0)	35 (85.4)	0.19
Only PES	8 (9.5)	2 (4.7)	6 (14.6)	
Only ZES	1 (1.2)	1 (2.3)	0	
Bif-2 stent	49 (58.3)	30 (69.8)	19 (46.3)	0.05
Provisional T stent	6 (7.1)	2 (4.7)	4 (9.8)	0.02
V stent	3 (3.6)	0	3 (7.3)	
Crush	14 (16.7)	10 (23.3)	4 (9.8)	
Mini-crush	19 (22.7)	15 (34.9)	4 (9.8)	
Colotta	6 (7.1)	2 (4.7)	4 (9.8)	
Simultaneous kissing stenting	1 (1.2)	1 (2.3)	0	
Final kissing balloon	74 (88.1)	41 (95.3)	33 (80.5)	0.05
No. stents/patient	1.49±0.50	1.60±0.50	1.37±0.49	0.03
Total stent length/patient, mm	30.55±12.70	31.84±11.90	29.20±13.51	0.34
Maximum stent diameter, mm	3.24±0.31	3.26±0.32	3.22±0.30	0.59
Maximum balloon diameter, mm	3.53±0.60	3.60±0.63	3.46±0.56	0.36
Maximum dilation pressure, atm	18.73±3.76	18.67±3.68	18.77±3.86	0.92

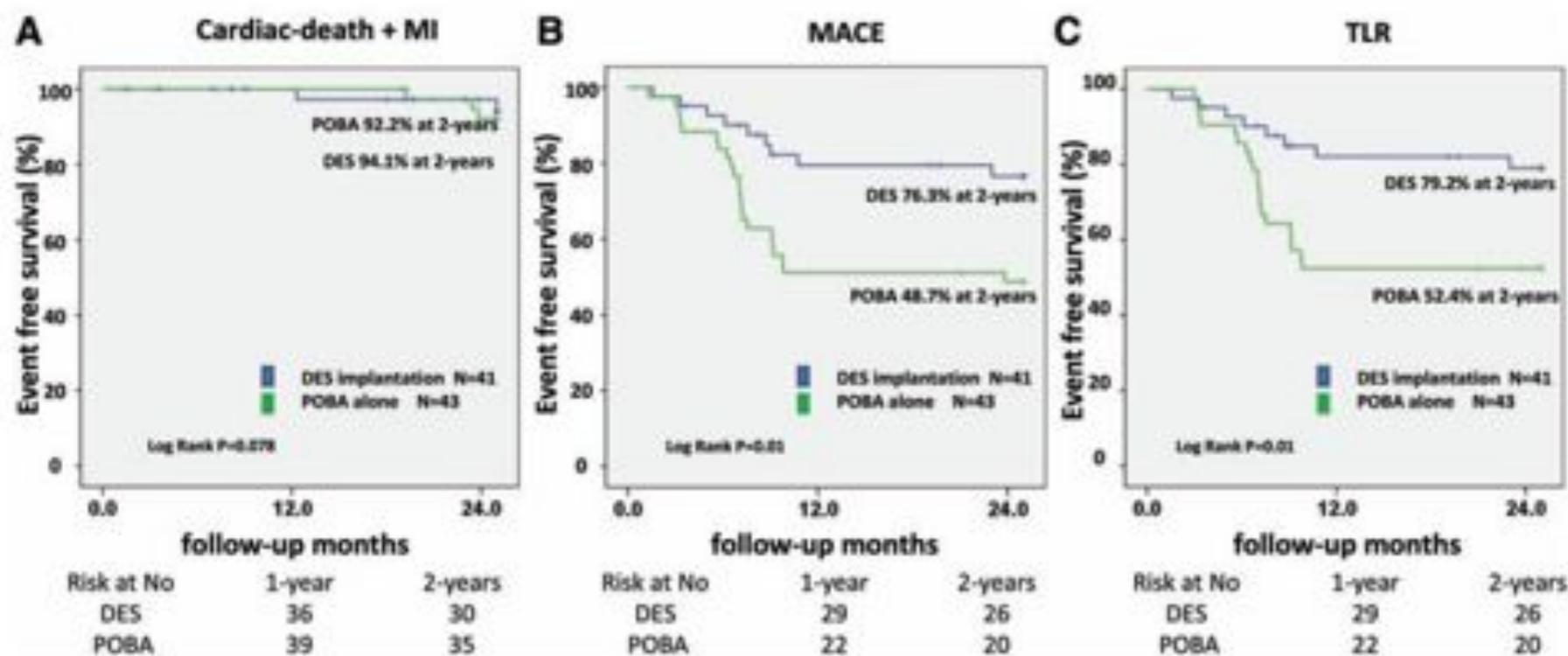


Figure 2. Survival curves by TLR strategy (DES versus POBA). Cumulative survival rates were calculated by the Kaplan-Meier method and compared with the log-rank test. **A**, Freedom from cardiac death and MI by TLR strategy (DES versus POBA). **B**, Freedom from MACE (cardiac death+MI+TLR) by TLR strategy (DES versus POBA). **C**, Freedom from TLR by TLR strategy (DES versus POBA). DES indicates drug-eluting stents; MACE, major adverse cardiac events; MI, myocardial infarction; POBA, plain old balloon angioplasty; TLR, target lesion revascularization.

Angiographic and clinical outcome of percutaneous coronary intervention for in-stent restenosis of bifurcated lesions

Santiago Federico Coroleu¹, MD; Maria De Vita², MD, PhD; Francesco Burzotta^{1*}, MD, PhD; Carlo Trani¹, MD; Italo Porto¹, MD, PhD; Gianpaolo Niccoli¹, MD, PhD; Antonio Maria Leone¹, MD, PhD; Antonella Tommasino¹, MD; Giovanni Paolo Talarico¹, MD; Giovanni Schiavoni¹, MD; Filippo Crea¹, MD

Abstract

Aims: Restenosis and bifurcated lesions represent technically challenging lesions for percutaneous coronary interventions (PCI). Data regarding procedural and clinical outcome of re-PCI for restenosis of treated bifurcated lesions are lacking. Our aims were to evaluate angiographic and procedural results and one-year clinical outcome of PCI for restenosis of treated bifurcated lesions.

■ [EuroIntervention](#) 2012;8:701-707

Methods and results: Consecutive patients undergoing PCI for restenosis of one bifurcated lesion previously treated by stent implantation at our centre entered the study. The primary endpoint was angiographic and procedural success, defined as final residual stenosis $\leq 30\%$ in the main vessel with TIMI 3 flow in both MV and side branch, and stenosis $\leq 50\%$ in the SB without death, myocardial infarction or target vessel revascularisation during hospitalisation. The secondary endpoint was the incidence of major adverse cardiac events at one-year clinical follow-up. The study population included 64 patients treated by PCI on a single ostentotic bifurcated lesion. Angiographic and procedural success was achieved in 61 cases (95.3%) whereas the three cases of failure were due to SB residual stenosis $>30\%$. At one year, MACE rate was 18.7% (12/64) with rates of cardiac death, MI and TVR of 1.6% (1/64), 6.2% (4/64) and 18.7% (12/64), respectively. No cases of stent thrombosis occurred. Patients treated by a single drug-eluting stent (DES) on main vessel (MV) had a significant lower rate of MACE at one year as compared to patients treated with balloon only PCI or by double-stenting technique or with a BES, irrespective of the strategy adopted: 4/37 (10.8%) vs. 8/27 (29.6%); $p=0.04$.

Conclusions: PCI in restenotic bifurcated lesions can be a good treatment option with high rates of angiographic and procedural success and an acceptable rate of long-term MACE. The use of a single DES implantation may be a promising strategy as it is associated with lower rates of MACE in the long term.

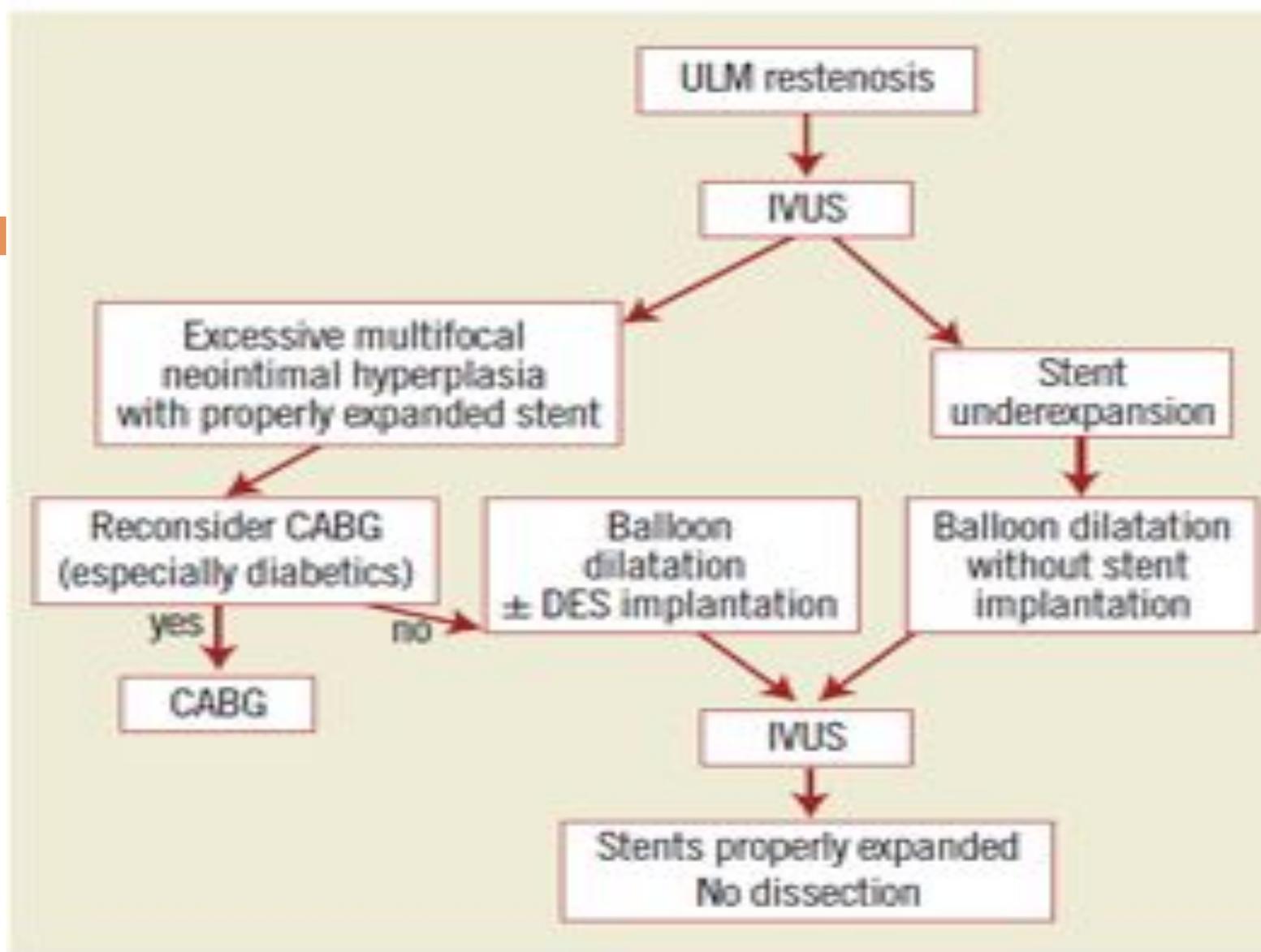
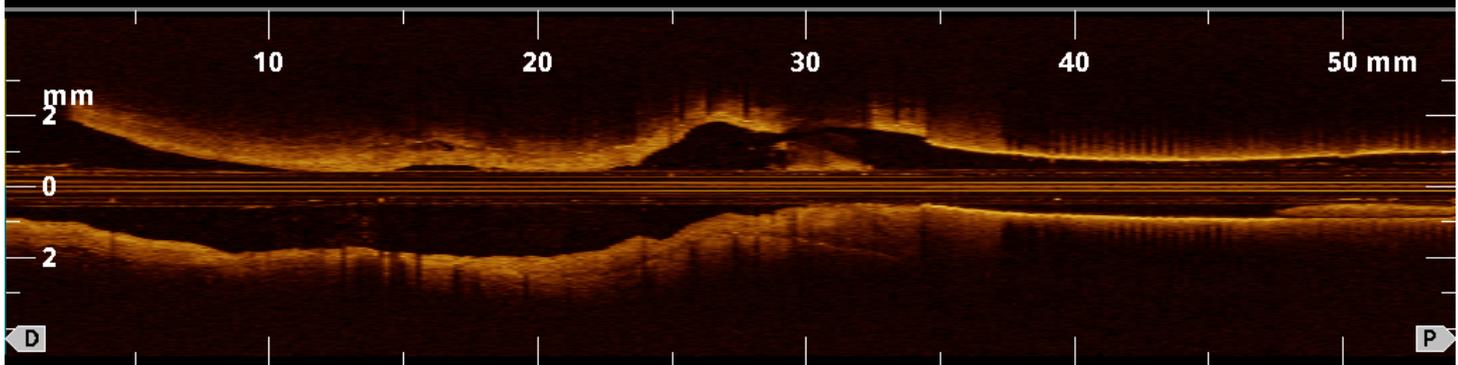
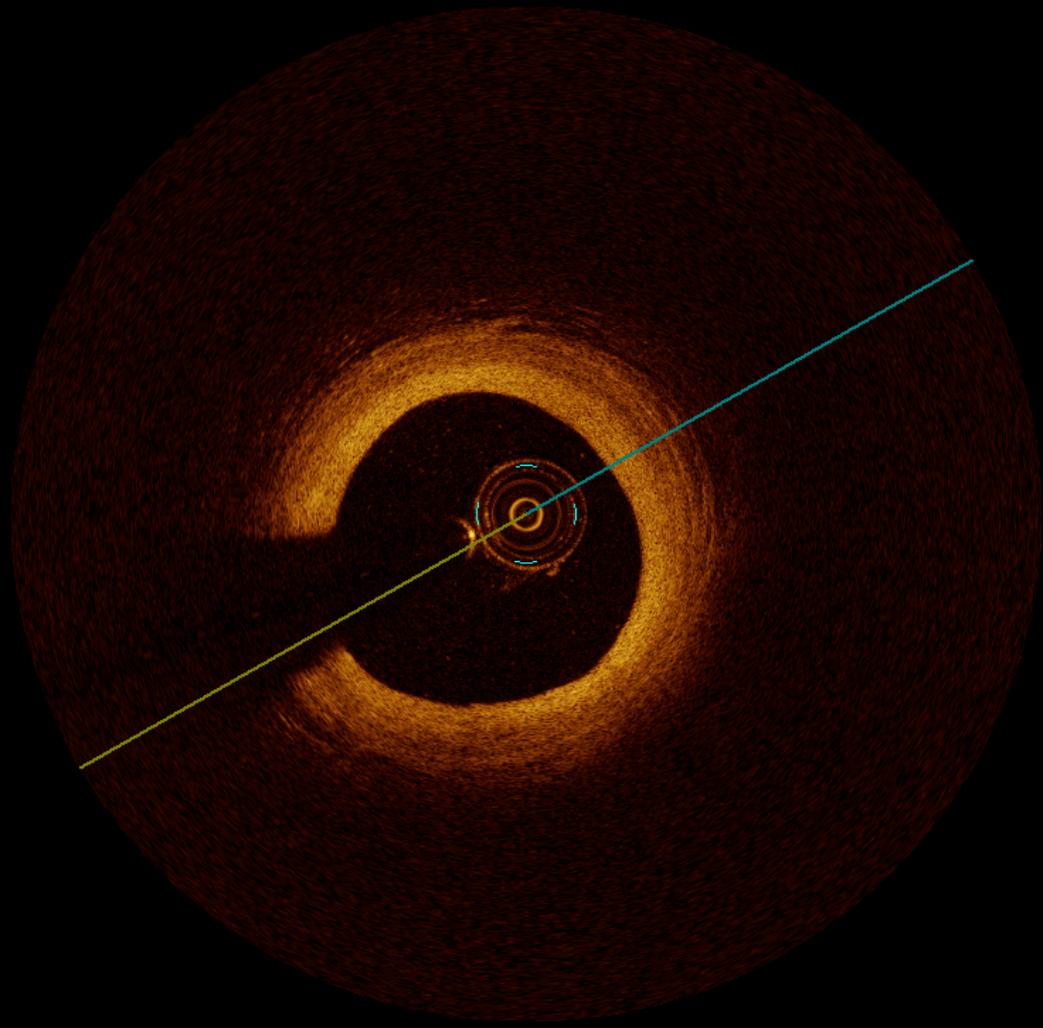
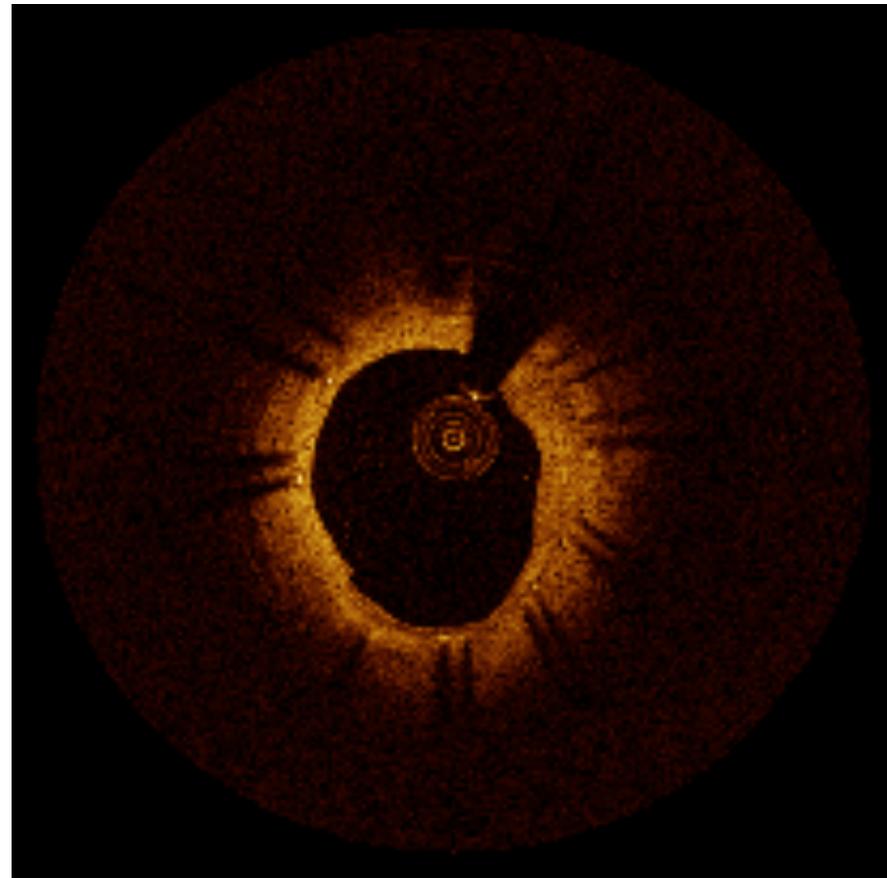
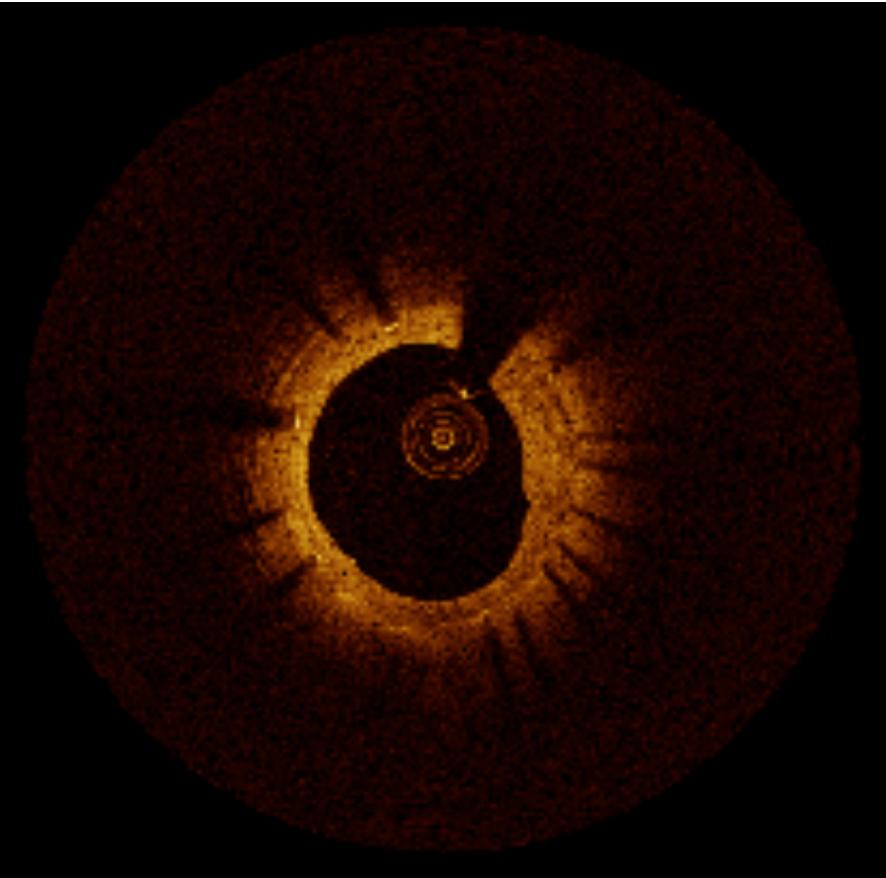


Figure 3. Proposed catheter-based management of ULM restenosis.

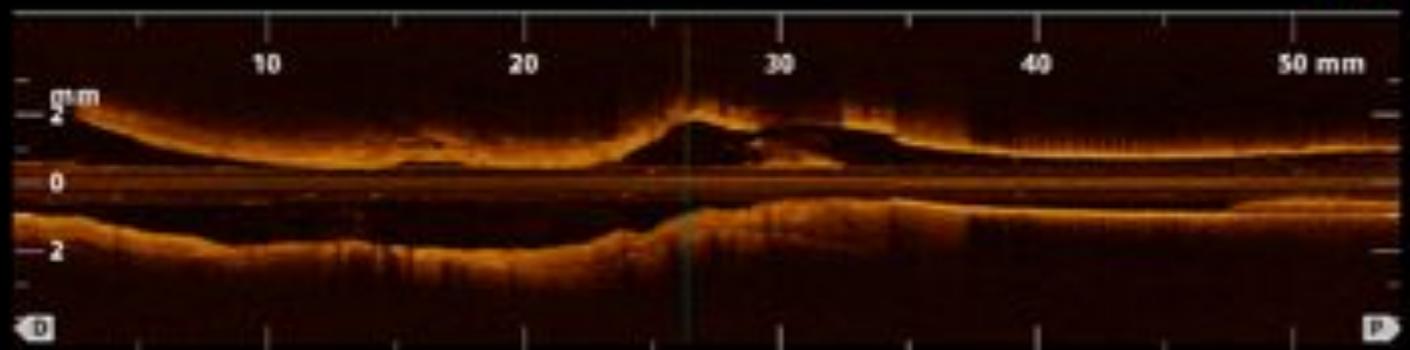
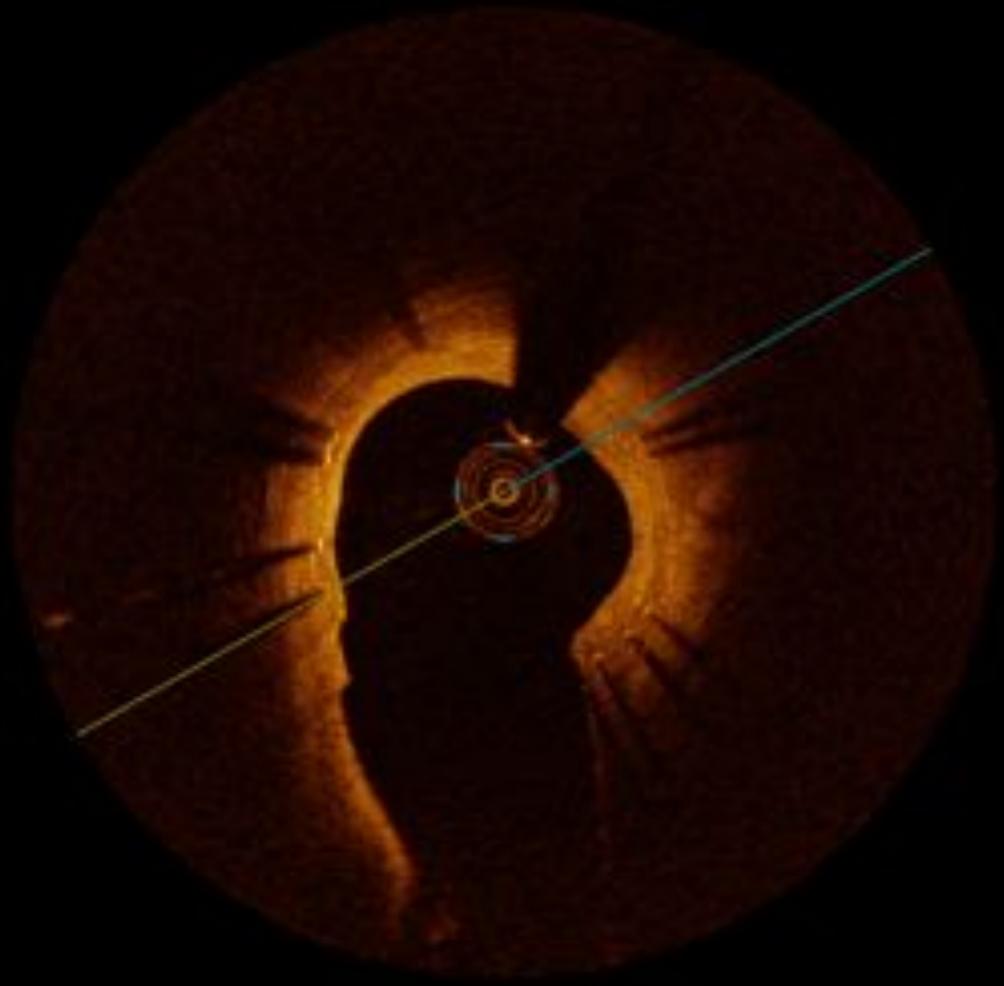


Présentation clinique : OCT

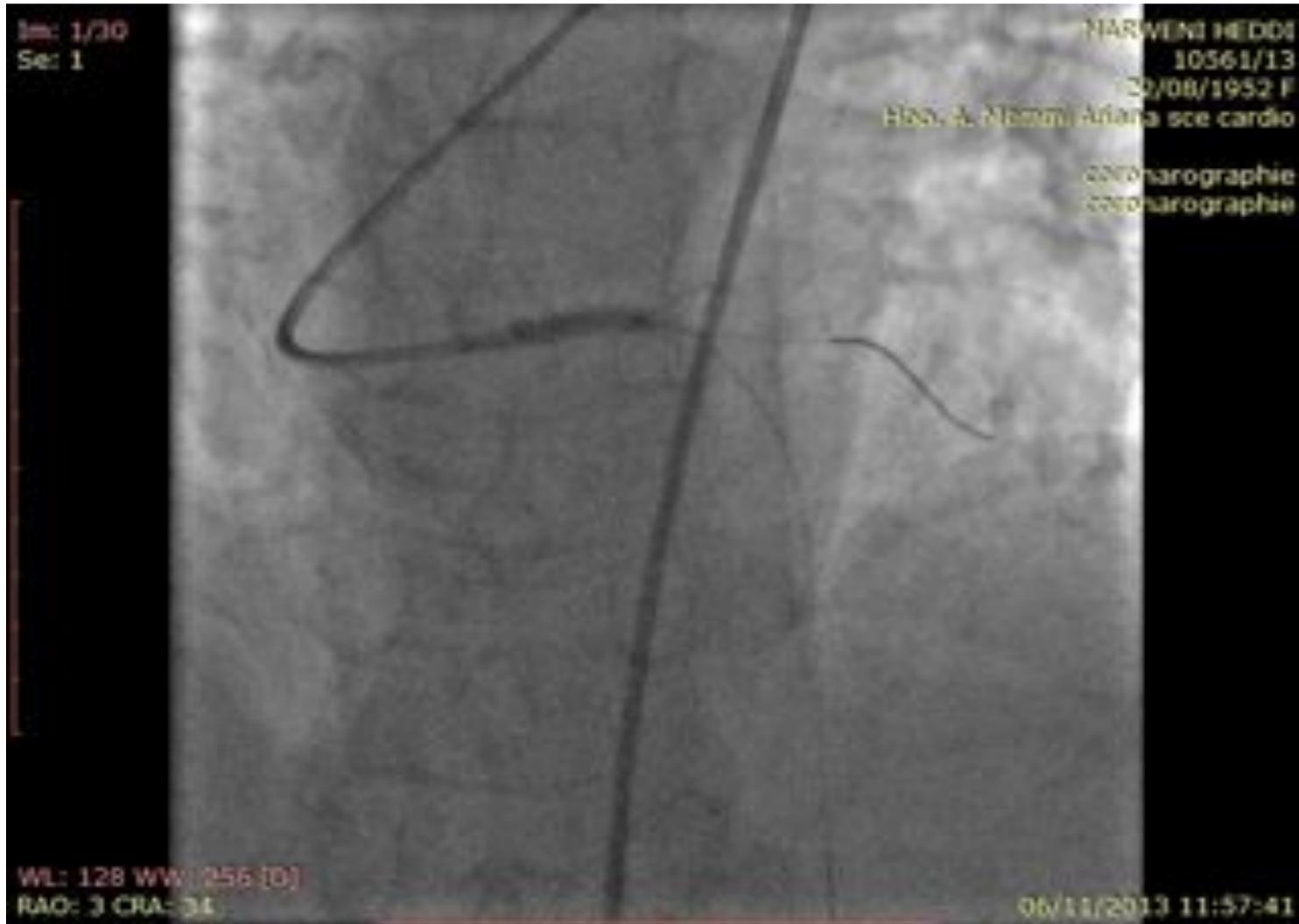


Présentation clinique : OCT

- **Mécanisme de la RIS :**
prolifération néo intimale
- **→ ATC avec un stent actif à**
Evrolimus



PROCEDURE ATC



PROCEDURE ATC



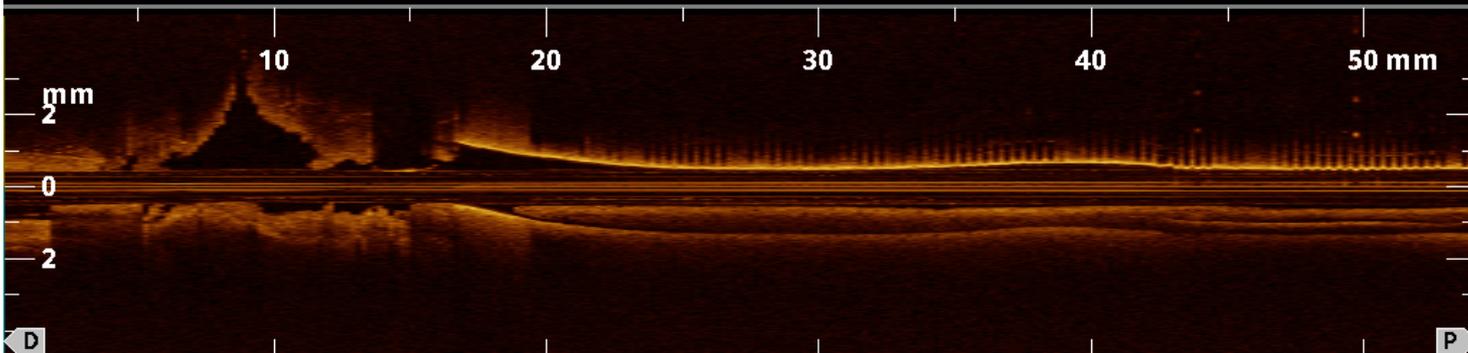
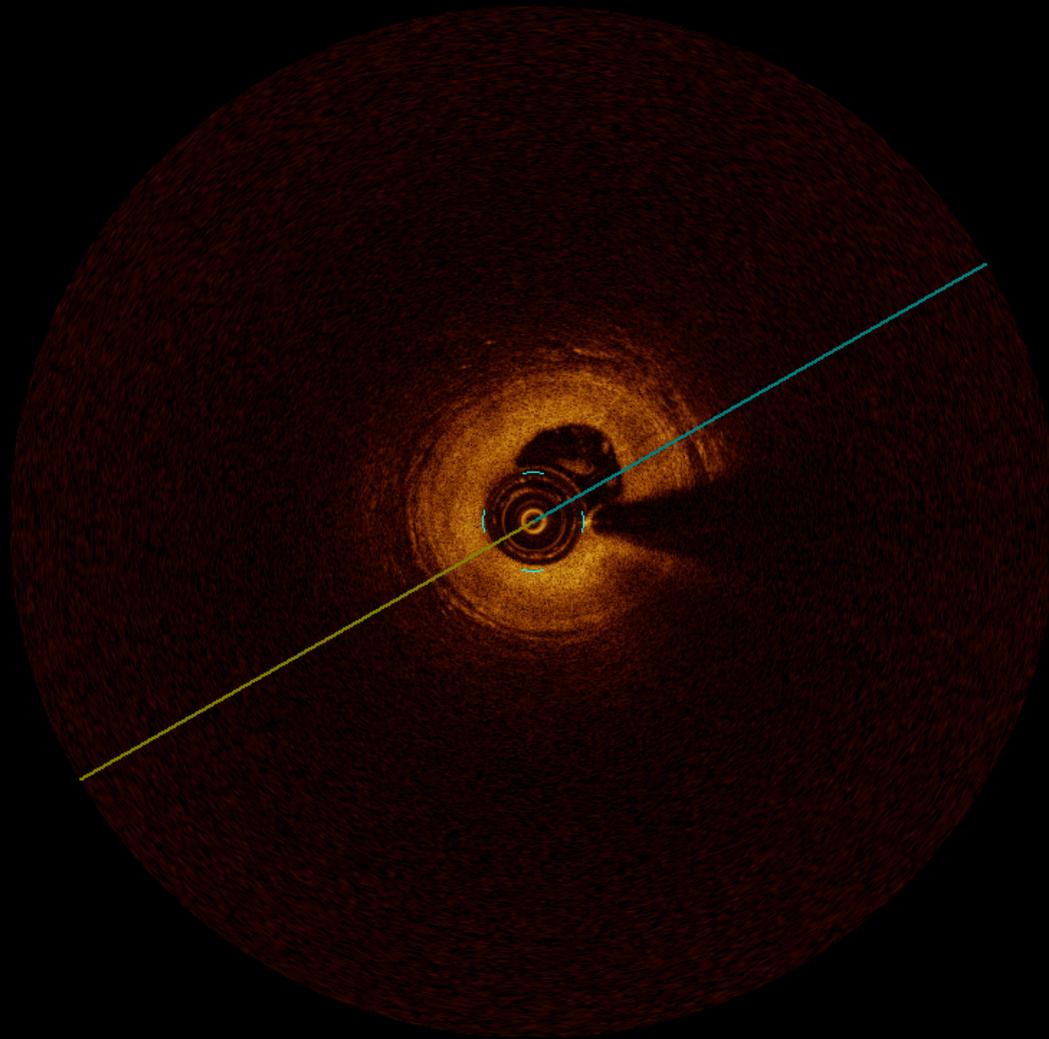
PROCEDURE ATC

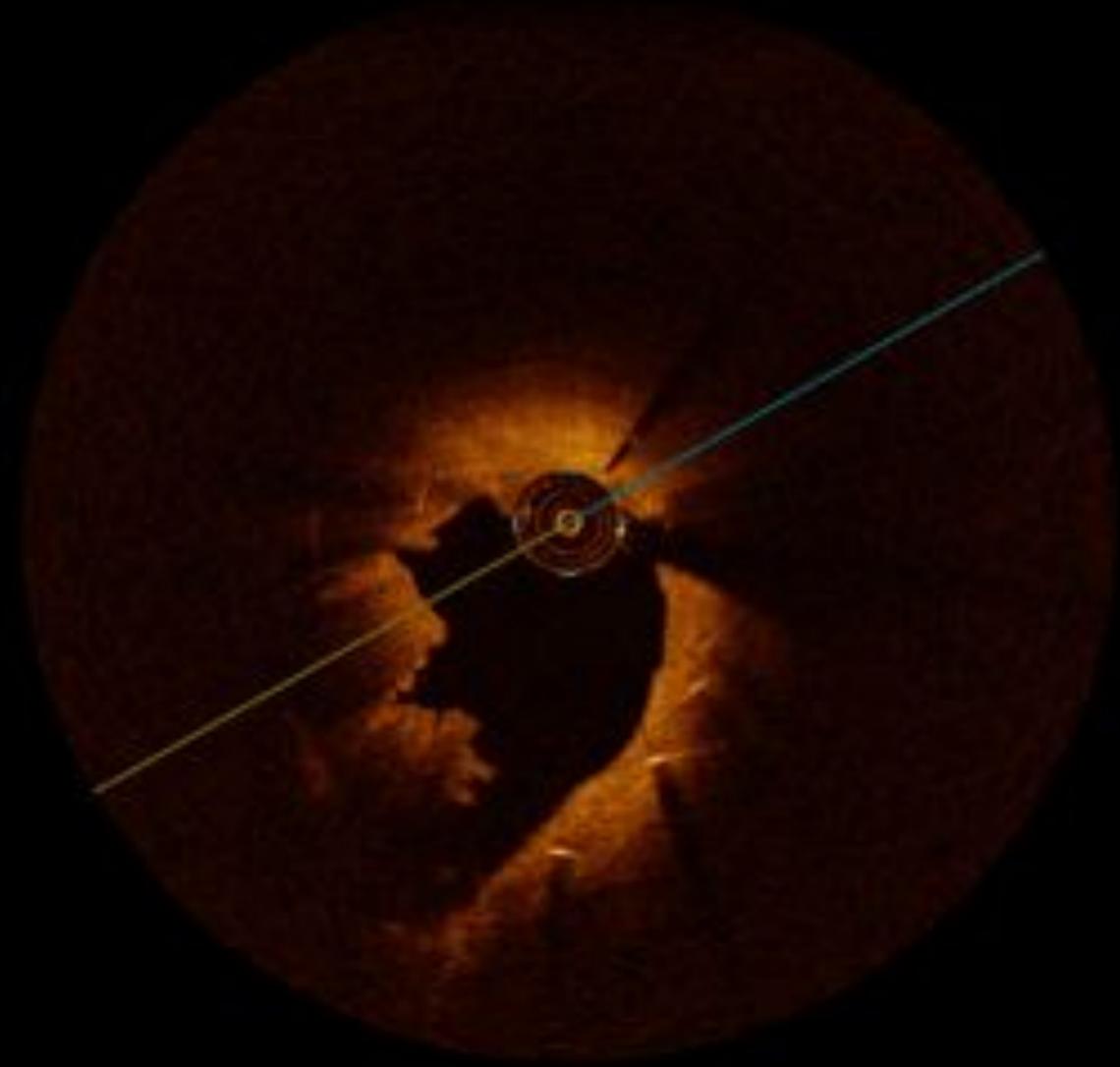


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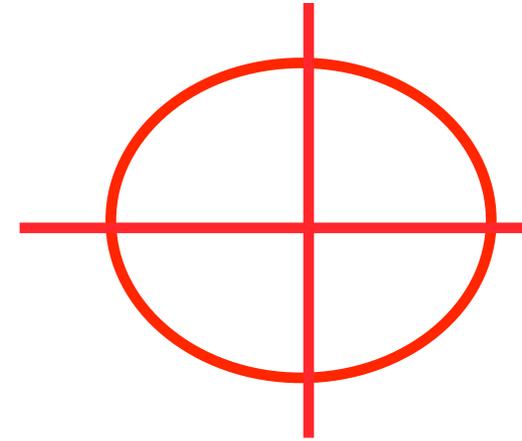
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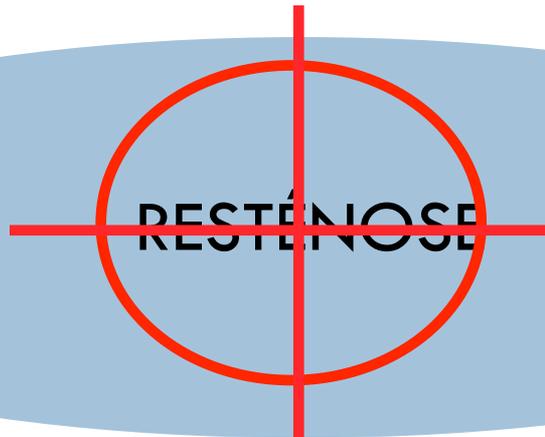


ATC du TCGD : Nos ennemis

Thrombus et la plaquette activée



RESTÉNOSE



PROCEDURE ATC

Im: 1/45
Sec: 1

NARWENI HEDD1
10561/13
02/08/1952 F
Hscv: A. Nimm/Arina sce cardio
Coronarographie
Coronarographie

WL: 128 WW: 256 [D]
RAO: 3 CAU: 26

08/11/2013 12:01:26

Im: 1/47
Sec: 1

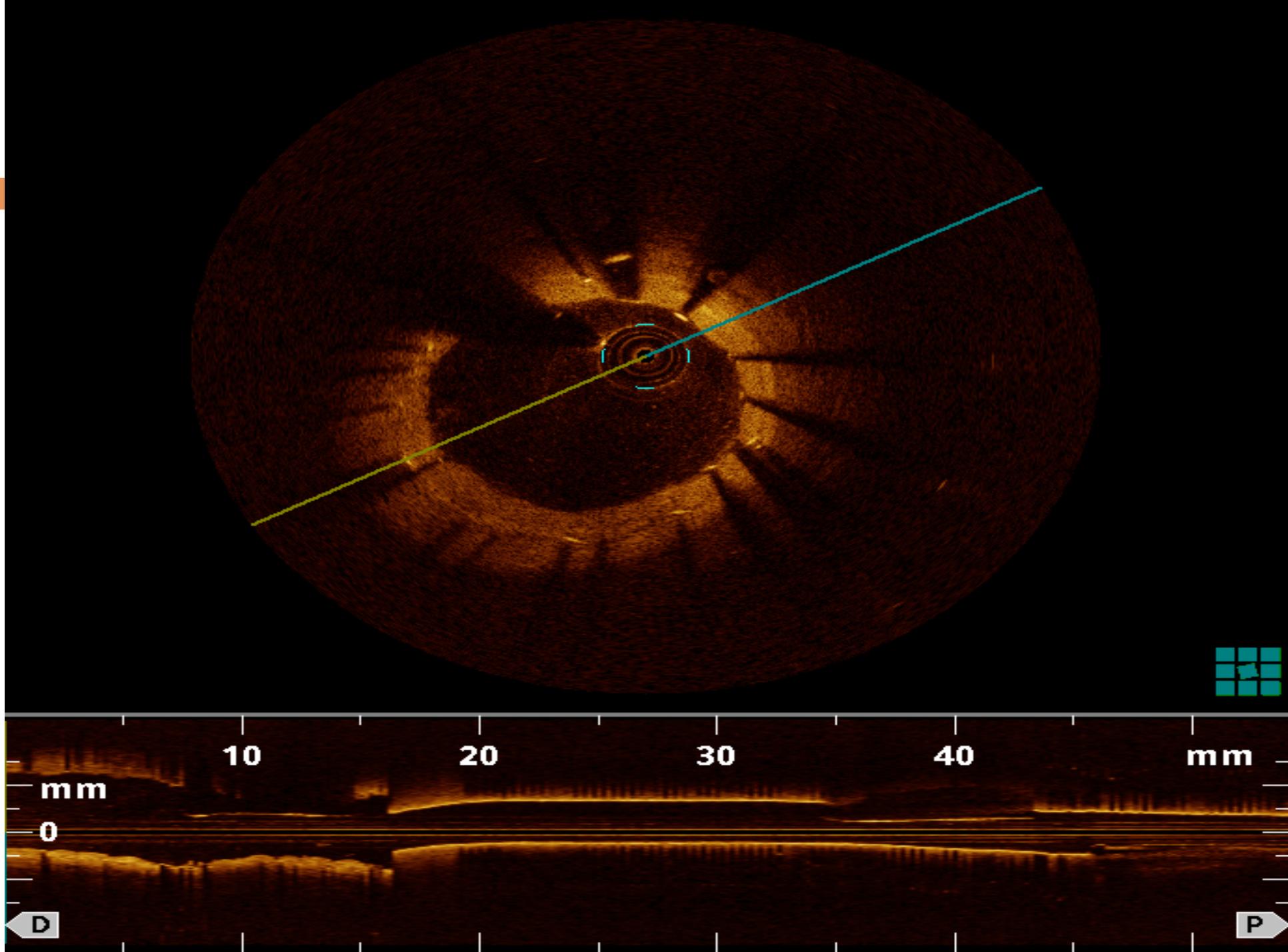
NARWENI HEDD1
10561/13
02/08/1952 F
Hscv: A. Nimm/Arina sce cardio
Coronarographie
Coronarographie

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RAO: 3 CAU: 26

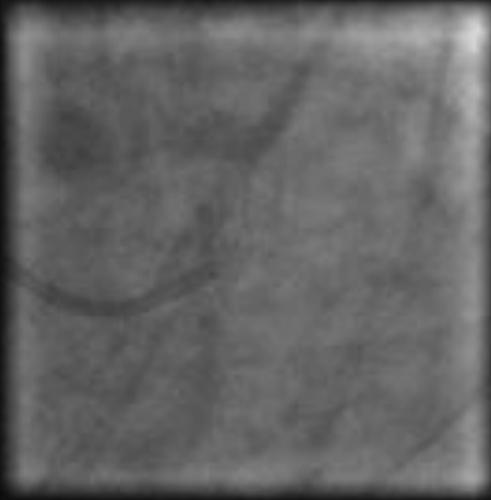
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Follow up



- Coro systématique à 1 mois : disparition du thrombus.
- Appel téléphonique il y'a 3 semaine : 0 MACCE à 6 mois.

Conclusion

- **Angioplastie du TCG : pratique courante → gestion RIS ?**
- **Le choix de la stratégie du traitement de la RIS dépend du mécanisme: déterminé par IVUS et/ou OCT**
- **Une stratégie simple au départ associée à une stratégie simple pour traiter la RIS : meilleur approche**
- **« Il faut approcher la RIS du TCGD de la même façon qu'on approche une sténose native ».**

Merci de votre attention

