

PERSPECTIVES 2017

December Friday 15 - BORDEAUX

Organization: E. Ducasse, M. Sibé



Ma perspective de traitement de la fémorale commune la plus prometteuse

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Disclosure

Speaker name: Yann Gouëffic



- I have the following potential conflicts of interest to report:
 - Receipt of grants/research support

Details: Abbott; Bard; Medtronic; Terumo; WL Gore

Receipt of honoraria and travel support

Details: Abbott; Bard; Boston Sc; Cook; Medtronic; Perouse; Spectranetics

P Employment in industry

Details: /

Shareholder in a healthcare company

Details: /

Owner of a healthcare company

Details: /

I do not have any potential conflicts of interest to report

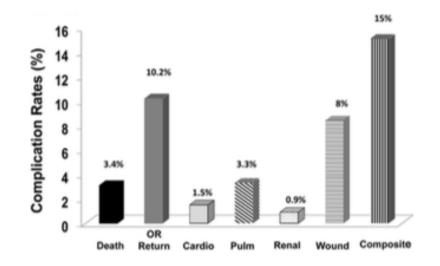
Postoperative complications after common femoral endarterectomy

Organization: E. Ducasse, I

December Friday 15

Bao-Ngoc Nguyen, MD, Richard L. Amdur, PhD, Mustafa Abugideiri, BS, Rodeen Rahbar, MD, Richard F. Neville, MD, and Anton N. Sidawy, MD, MPH, Washington, D.C.

- 1843 CFEs, Diabetes: 33%; CLI: 36%
- CFE between 2005-2010 from the ACS-NSQIP database
- Perioperative morbimortality outcomes before and after hospital discharge
- Morbi-mortality rates 15%
- Average length of stay : 4.6 \pm 7.5 d



Conclusions: CFE is not as "benign" a procedure as previously believed. The risks of death and wound complications are not insignificant, and a high percentage of these complications occurred after patients were discharged from the hospital. Patients should be carefully selected, especially in the elderly population, and close postoperative follow-up should be considered. (J Vasc Surg 2015;61:1489-94.)





Interventional Cardiology

Endovascular Treatment of Common Femoral Artery Disease

Medium-Term Outcomes of 360 Consecutive Procedures

Robert F. Bonvini, MD,*† Aljoscha Rastan, MD,* Sebastian Sixt, MD,* Elias Noory, MD,*
Thomas Schwarz, MD,* Ulrich Frank, MD,‡ Marco Roffi, MD,† Pierre Andre Dorsar, PttD,†
Uwe Schwarzwilder, MD,* Karlheine Bürgelin, MD,* Roland Macharrina, MD,* Thomas Zeller, MD*
Bad Kroningen, Germany; and General and Chier, Switzerland

Key findings:

■ 360 limbs / CLI: 22.1%

■ Lost of FU @ 10mo: 12.2%

Perioperative complications: 6.4%

■ Restenosis rate: 27.6%

■ TLR: 19.9%

The use of <u>stents</u> was identified as <u>the</u>
<u>only independent protective factor</u>
against procedural failure, TLR and 1-year
restenosis

HISEVIER

Journal of Vascular Surgery

Volume 53, Issue 4, April 2011, Pages 1000-1006



Endovascular treatment of common femoral artery obstructions

Frederic Baumann, MD, Mirka Ruch, Torsten Willenberg, MD, Florian Dick, MD, Dai-Do Do, MD, Hak-Hong Keo, MD, Iris Baumgartner, MD, and Nicolas Diehm, MD, Serne, Switzerhand

Key findings:

■ 98 limbs / CLI: 19%

■ De novo / restenosis: 85/15%

Perioperative complications: 6.4%

■ Bailout stenting: 27%

■TLR: 17/46%

Primary sustained clinical improvement was <u>significantly</u> better in patients in whom <u>stents</u> had been implanted

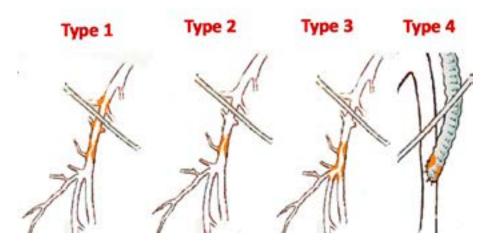
Baumann, J Vasc Surg, 2011

Pilot study 2006-2008 (Azéma, Eur J Vasc Endovasc Surg, 2011)

40 limbs - Primary stenting







Perioperative morbi-mortality rate: 5%

ly clinical improvement @ 1y: 80%

TLR free @ 1-y: 85%

In-stent restenosis rate*: 20%

Stent fracture**: 2.5%

^{*} Defined systolic velocity peak index > 2.4

^{**} according Jaff M., Catheter Cardiovasc Interv 2007

TECCO trial

French multicenter randomized trial comparing surgery versus stenting for the treatment of CFA atherosclerotic

lesion (From 2011 to 2015) (NCT01353651)



Stenting or Surgery for De Novo Common Femoral Artery Stenosis



Yann Goreffic, MD, PsD, **, be Nellie Della Schiava, MD, *Fabien Thaveau, MD, PsD, *Eugenio Rosset, MD, PsD, *
Ivan-Pietre Favre, MD, PsD, *Lucie Salomon du Mont, MD, *Jean-Marc Alsac, MD, PsD, *Réda Hassen-Khodja, MD, *
Thierry Reix, MD, *Eric Allaire, MD, PsD, *Eric Ducasse, MD, PsD, **Raphael Soles, MD, *Béatrice Guyomarc'h, *
Bahaa Nasr, MD*

JACC: CARDIOVASCULAR INTERVENTIONS CHE/HDC



CHU de St Etienne (N°11), CHU de Rouen (N°12), Clinque du Tonkin (N°13), Nouvelles Cliniques Nantaises (N°14), Clinique St Augustin (N°15), HEGP (N°16),) Hopital Henri Mondor (N°17)

TECCO trial protocol

Sponsor Nantes University Hospital - TECCO trial, NCT01353651



- Investigator initiated study
- RCT multicenter and controlled
- Rigorous data collection process, independent
- Adjudication by:
 - Duplex ultrasound core laboratory
 - Data safety monitoring board
- Follow-up includes
 - 1, 6, 12, and 24-month clinical assessment
 - 1, 12 and 24-month stent x-ray
- Monitoring with 100% source data verification

- Modified intent to treat analysis /
 Per protocol analysis
- Sample size calculation: 120 patients
- Randomly assigned in a 1:1 ratio
- 80% power to detect a between-group difference of 20% percentage points in the morbid-mortality rate at a two-sided alpha level of 0.05 (25% in the surgery group and 5% in the stenting group).
- Primary endpoint: morbid-mortality rate at 1 month including general complications and Local complications

Population



Main inclusion criteria

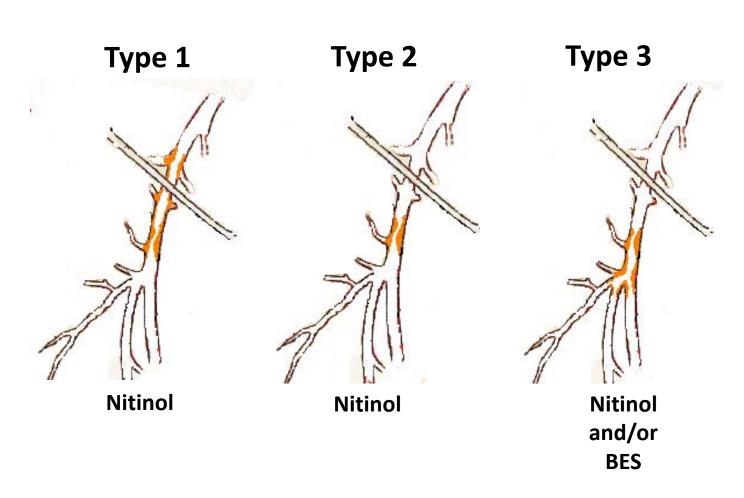
- Age between 40 and 90 yearsold
- De novo atheromatous common femoral artery stenosis-Rutherford stages 3 to 6

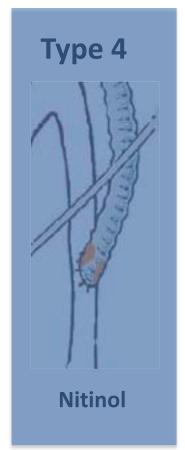
Main exclusion criteria

- -Restenosis
- -Thrombosis
- No atheromatous disease
 - Asymptomatic lesion
- Life expectancy < 1 year

CFA lesions classification







Procedures



Open repair

At the discretion of the physician (bypass, endarteriectomy...)

Endovascular repair

- Anaesthesia: at the discretion
- Over the bifurcation,
 ipsilateral or brachial
 approaches
 - Primary stenting
- Antiplatelet treatment: at the discretion

TECCO flow chart

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120 were included 3 were not randomized and withdrawn 1 patients with life expectancy < 1 year 2 patients without common femoral artery lesion

117 Underwent randomization

61 Were assigned to surgery group 58 Underwent assigned intervention 3 Did not undergo assigned intervention 2 Withdrew consent 1 Change group to stenting group

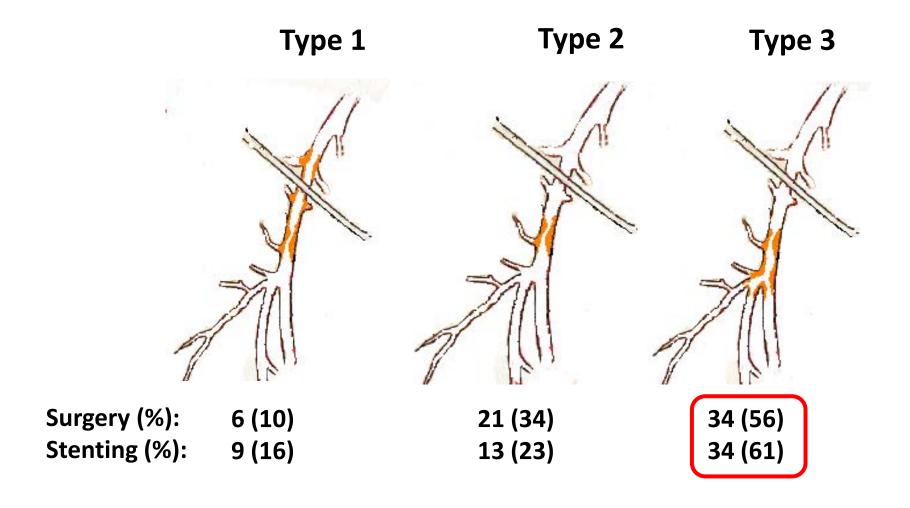
56 Were assigned to stenting group 54 Underwent assigned intervention 2 Did not undergo assigned intervention 1 Withdrew consent 1 Change group to surgery group

43 Completed 24 months follow-up 5 Discontinued study 3 lost to follow-up 1 was withdrawn by investigator 1 death

42 Completed 24 months follow-up 7 Discontinued study 4 lost to follow-up 3 deaths

TECCO lesions characteristics





Intraoperative data



Surgery (N=58)		
Endarterectomy	46 (69)	
with venous patch (%)	7 (12)	
with prosthetic patch (%)	37 (64)	
direct suture (%)	2 (3)	
Bypass with a prosthesis	11 (19)	
Eversion	1 (2)	

Stenting (N=54)	
Crossover access – no. (%)	43 (78)
Brachial access – no. (%)	7 (13)
Femoral ipsilateral – no. (%)	4 (7)

Primary endpoint



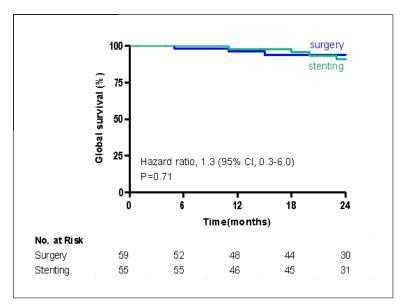
Modified intent to treat analysis

	Surgery (n=61)	Stenting (n=56)	р
Morbid-mortality rate @ 1 month, n (%)	16 (26)	7 (12.5)	0.05

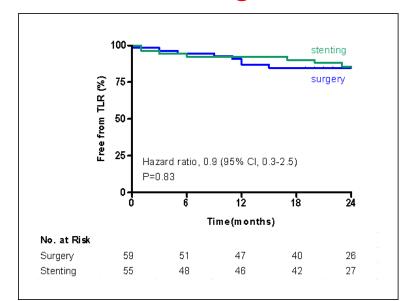
Per protocol analysis

	Surgery (n=58)	Stenting (n=47)	р
Morbid-mortality rate @ 1 month, n (%)	16 (26)	3 (6.4)	0.005

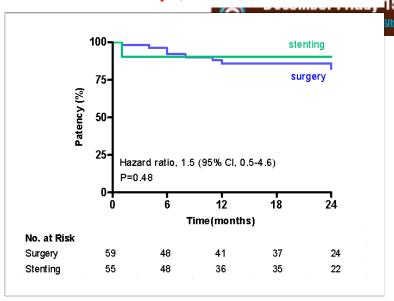
Survival @ 24 months



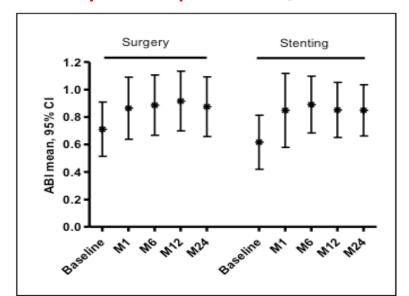
Freedom from TLR @ 24 months



Patency @ 24 months

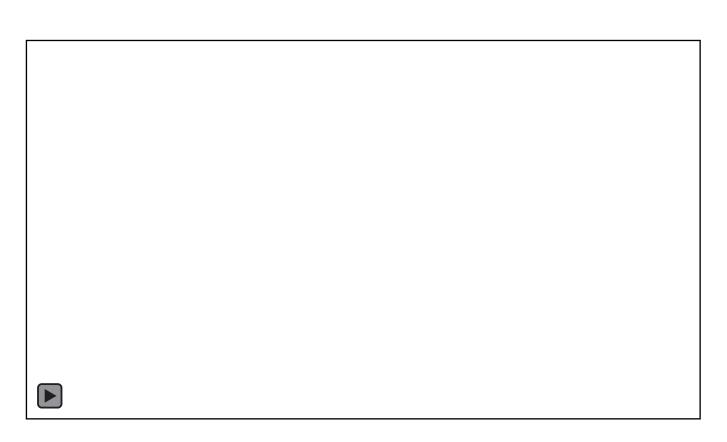


Haemodynamic improvement @ 24 months



CFA bifurcation (type 3) repair is feasable





In TECCO RCT, 61% of the lesions were type 3

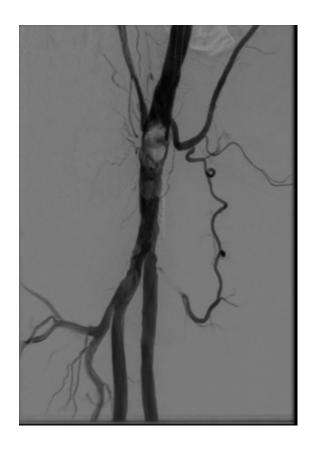
Coral reef lesions are not a limit

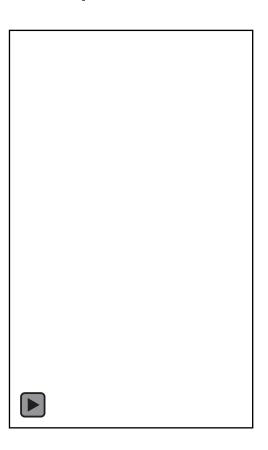


Pre operative lesions

Pre-inflation 9-40mm

Supera 8-40mm





Retrograde recanalization is

possible

Videos not available



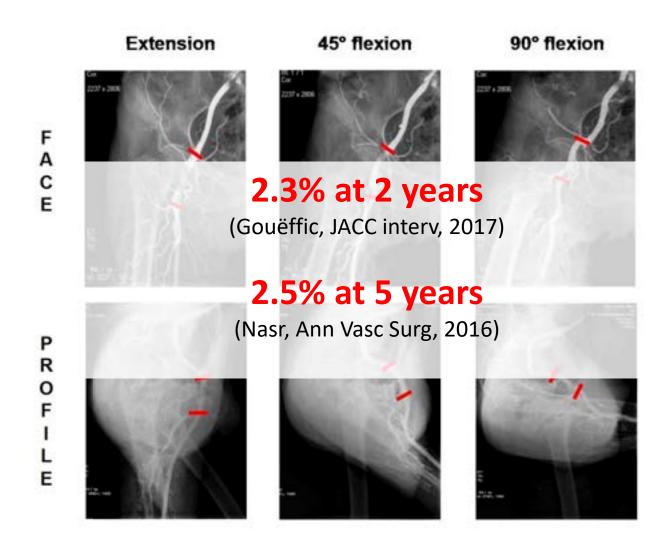
Stented CFA does not compromise future approaches



Videos not available

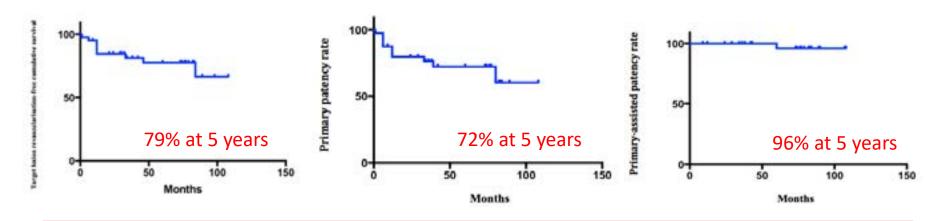
Fear of stent fracture is not longer relevent











Conclusions: Endovascular repair of the common femoral artery and its bifurcation seems to provide sustained clinical and morphological long-term results. Fear of stent fracture and local complications due to hip mobility are no longer relevant.

Ma perspective de traitement de la fémorale commune la plus prometteuse ?



- Diminution de morbo-mortalité périopératoire
- Résultats à long terme
- Conservation de la voie d'abord fémoral
- Traitement de lésions complexes
- Calcifications ne sont pas une limite
- L'absence de retentissement des mouvements de hanche

Le traitement endovasculaire par stenting est le traitement de 1^{ère} intention de la fémorale commune

