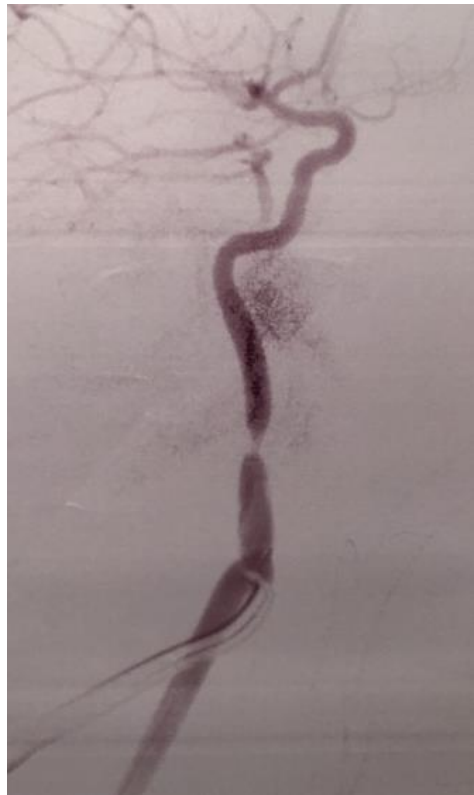


Carotid Stenting

In Complement of CEA

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Disclosure

Speaker name:

Pr Yves ALIMI

- I have the following potential conflicts of interest to report:
- Consulting
- Employment in industry
- Shareholder in a healthcare company
- Owner of a healthcare company
- Other(s)
- I do not have any potential conflict of interest

Carotids EA: Early Complications

Early strokes (%) post-CEA D30:

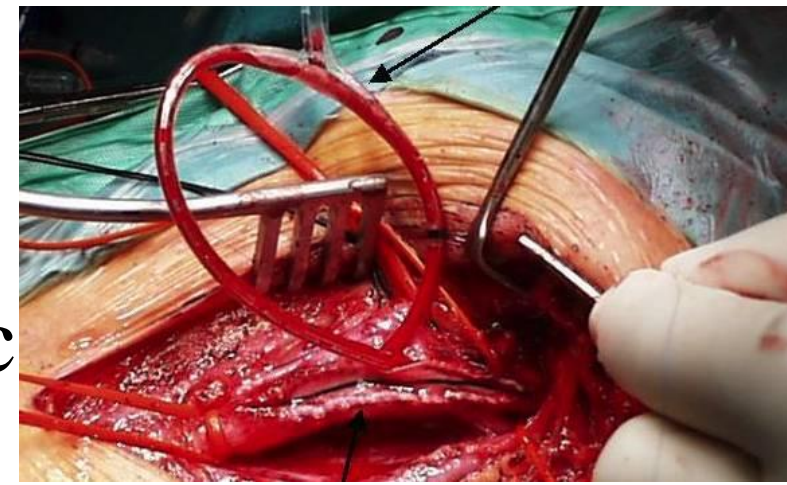
- EVA-3S : 3,9
- NASCET et ESCT : 6
- CREST : 2,6
- CAVATAS : 9,9

Intra-operative Complications :

- Technical difficulties,
- Clamps or shunt lesions,
- Bleeding (anastomotic site /sutures)



Our Series



- 2006 - 2015 : **1180 CEA** with systematic intra-op. angiographic contrôle.

20 pts (1,7%) : Carotid stenting in complement for angiographic abnormality.



- **17 M, 3 F,**
- Mean age : 74 yrs (52-89)
- **6 sympt pts** : 5 TIA/1 stroke

Surgical Technics : 20 patients

• Initial Procedures :

- CEA with patch: 10 (50 %)
- CEA by eversion 3 (15 %)
- Bypass: - prosthesis 5 (25 %)
 - great saph. V. 2 (10 %)
- 14 pts (70%) : Shunt (Sundt: 9, Pruitt-Inhara: 5)
- 5 pts (25%): 2nd surgical procedure before stenting

Which Lesions Stented ? 20 patients

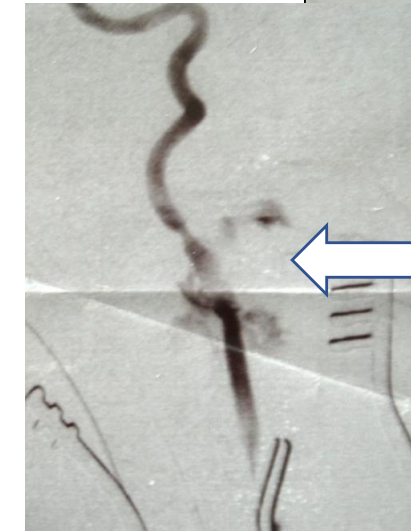
- **Carotid Stenosis :**

- lesions on clamps: 8
- trauma due to the shunt: 3
- Dysplasia: 1
- Distal atheromatous lesions : 4

16



3



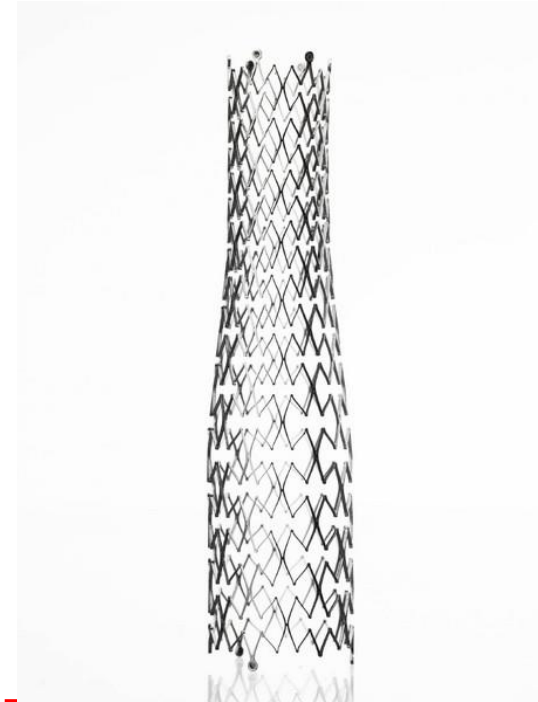
1

- **Intimal flap:**

- **Distal artery rupture on clamp:**

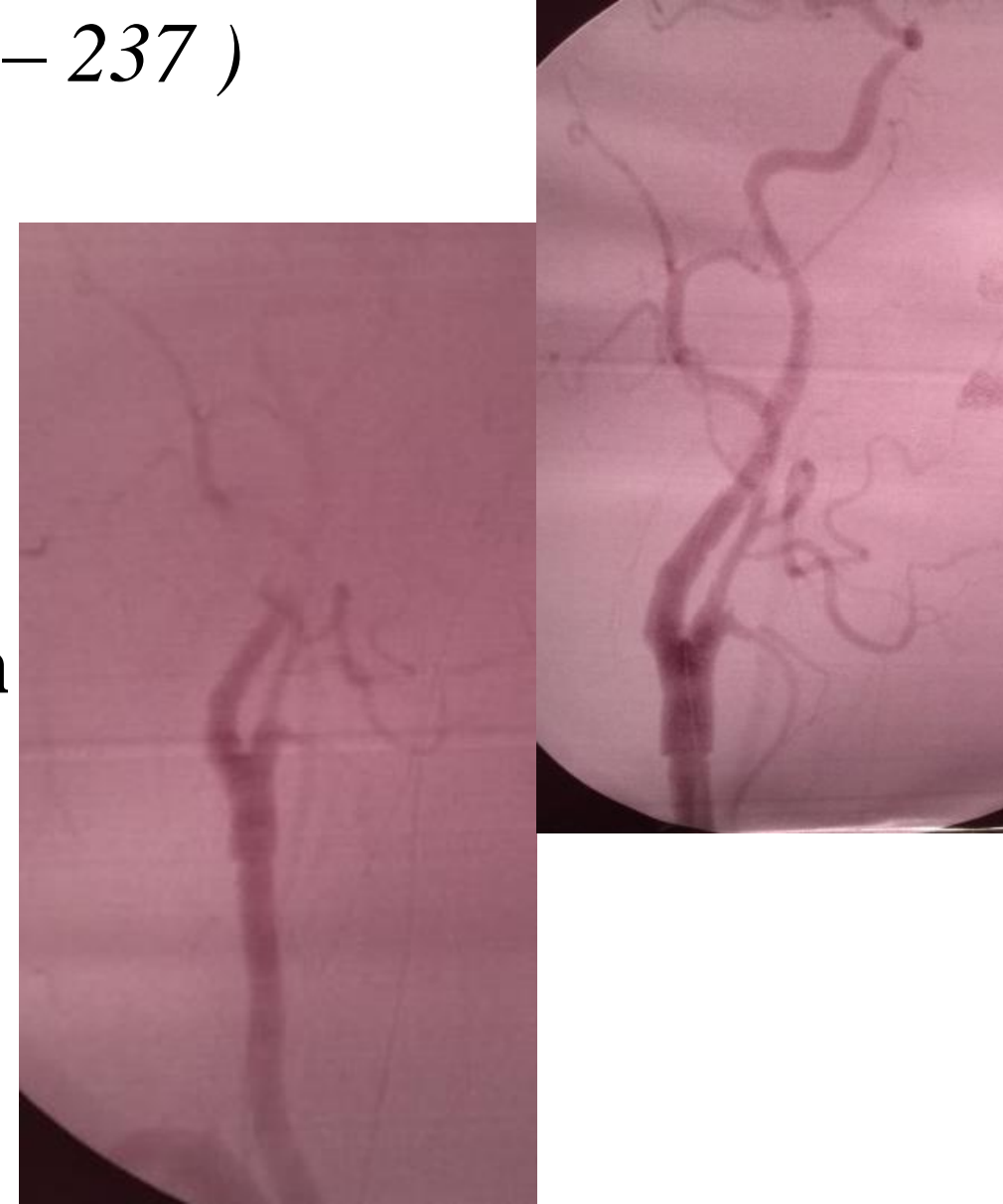
Carotid Stenting : Technique

- Heparin NF: 50 UI /kg,
- Antegrad ponction of CP,
- Sheath: 6 fr. (5 à 8),
- Terumo Guide : 0,025 and 0,014,
- **Transitory clamping of CP : Carotid flux reversal,**
- **Auto-exp. Stent:** 6 x 28 mm (*Precise* ®, *Carotid Wallstent* ®),
- Complementary TAL : 6 x 31 mm) & declamping CP
- Post-op. **Double anti-platelet treatment:** 1 year.



EARLY RESULTS

- Mean Operative Duration: **158 min** (81 – 237)
- **Early post-operative complications :**
 - **1 Stroke D2** and death D6,
 - 1 intra-petrous asympt. IC **dissection** with medical treatment,



LATE RESULTS

- **Hospital Duration: 6,5 days (3-18)**
- **Mean Follow-up: 36 months (5 - 113)**
- **3-years Secondary patency: 100 %**

1 intra-stent re-stenosis M17 (ATL)



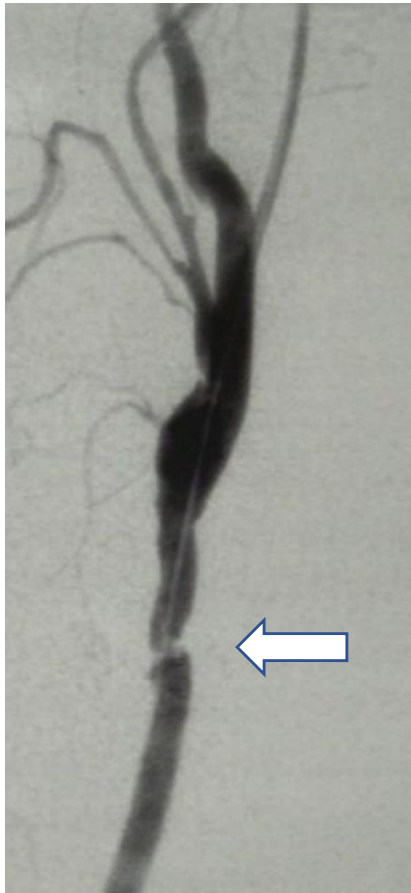
LITERATURE

<u>Authors</u>	n pts	% CEA	Cerebral Protection	Follow-up (months)	<u>AVC (%)</u> 30d / Late		Late patency(%)
Ross (2000)	13	4,1	non	15	0	8	-
Tameo (2000)	14	2,9	PC clamping	18	7	0	100
Chiesa (2010)	34	0,6	non	19	9	0	100
Alimi (2017)	20	1,7	PC clamping	36	5	0	100

CONCLUSION

- **Intra-op. Carotid stenting in complement:**

Main technique in case of technical complication.



- **Feasible and safe Technique,**
- **Late Patency : 100 % .**

