

Single-Center Clinical Experience with Barricade™ Coil System

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Disclosures

Consultant for Blockade.

Barricade Coil System

- Bare Platinum Coils / Electrolytic Detachment
- Barricade Framing Coils
 - Complex shape
 - Available in 10 and 18
- Barricade Filling Coils
 - Helical shape
 - Available in 10
- Barricade Finishing Coils
 - Helical and complex shape
 - Available in 10

Series: Inclusion/Exclusion

- All patients treated with Barricade Coils were prospectively included in this series.
- Inclusion/Exclusion criteria:
 - Included:
 - Patients \geq 18 ans
 - Aneurysms treated with coiling or remodeling technique
 - Excluded:
 - use of an adjunctive device (stent, flow diverter, WEB)
 - Dissecting and fusiform aneurysms

Population

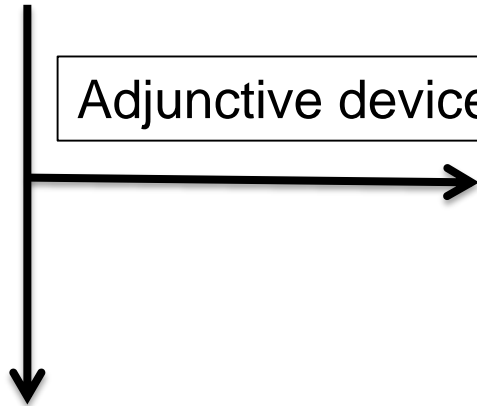
- From October 2013 to December 2015,

98 patients (110 anévrismes)

Adjunctive devices

10 patients (13 anévrismes)

88 patients (97 anévrismes)



Population

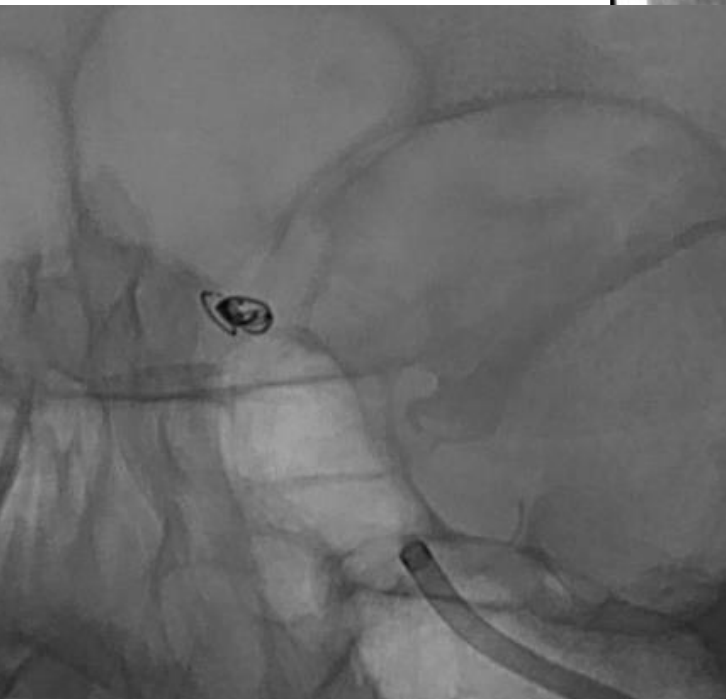
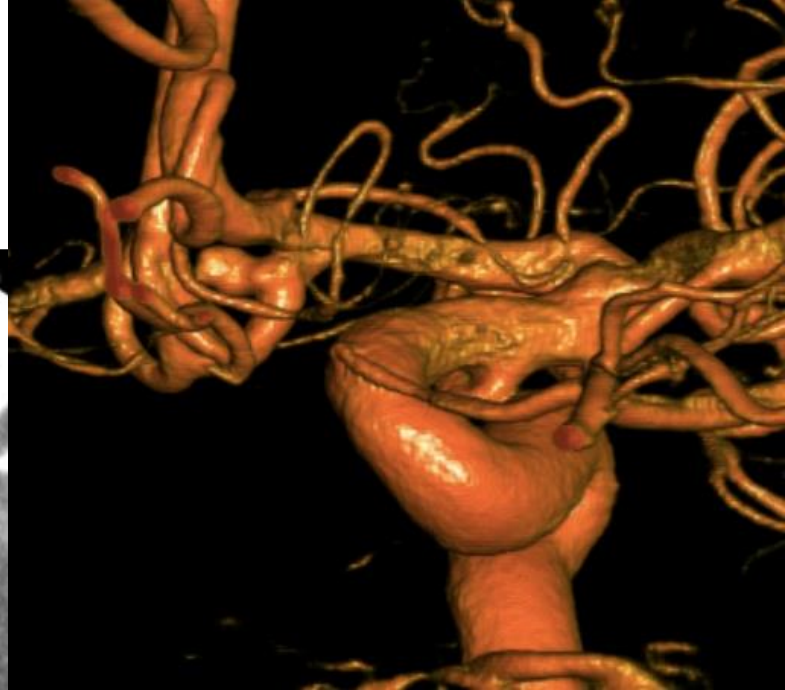
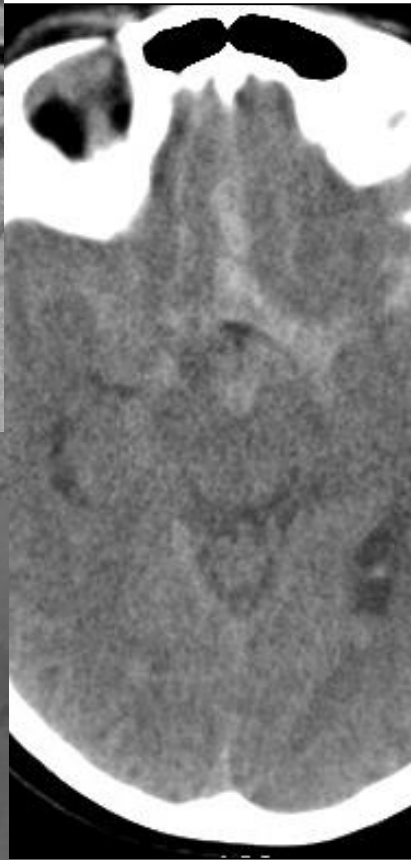
- Gender:
 - M: 29 (32.9%)
 - F: 59 (67.1%)
- Age:
 - 30 – 83 years
 - Mean: 52 +/- 13 years
- Aneurysm status:
 - R: 57 (58.7%)
 - UnR: 40 (41.3%)

Population

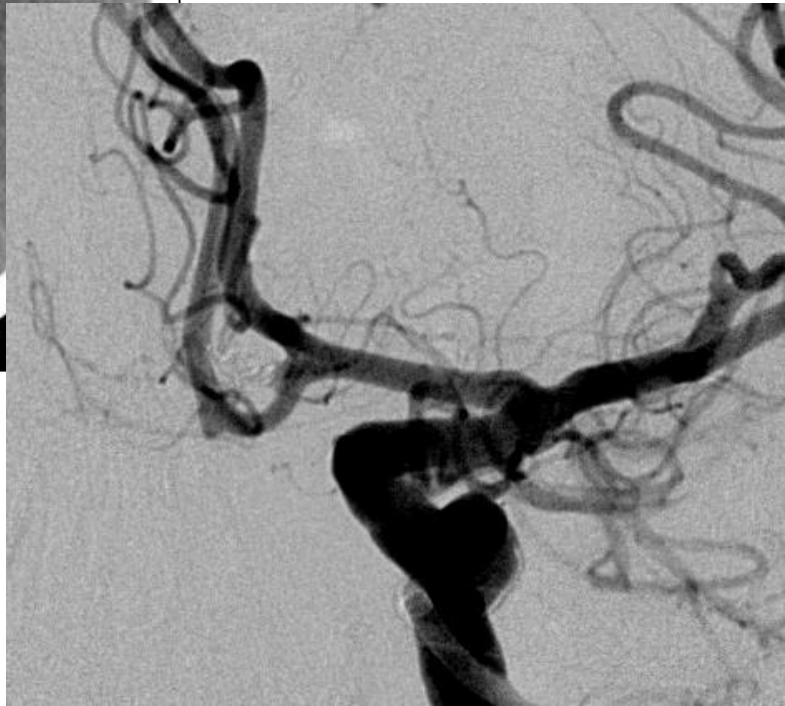
- Previous treatment:
 - No: 85 (87.6%)
 - Yes: 12 (12.4%)
- Location:
 - ICA: 36 (37.1%)
 - Acom: 31 (31.9%)
 - MCA: 16 (16.5%)
 - PC: 14 (14.4%)
- Mean aneurysm size: 8 +/- 5 mm
- Mean neck size: 4 +/- 2 mm

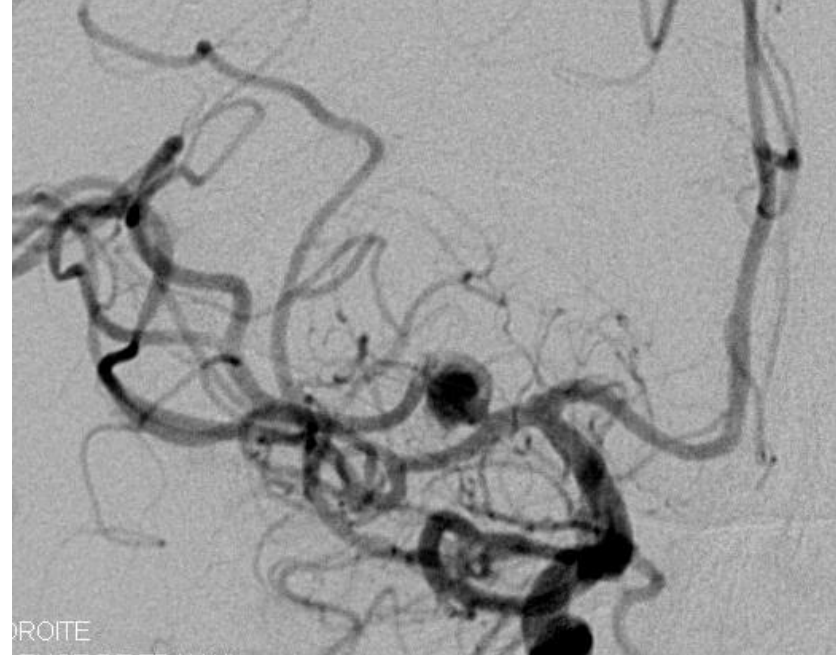
Techniques

- Treatment feasibility: 97/97 (100%)
- Techniques:
 - Coiling: 77 (79.4%)
 - Remodeling: 20 (20.6%)



Coils Barricade

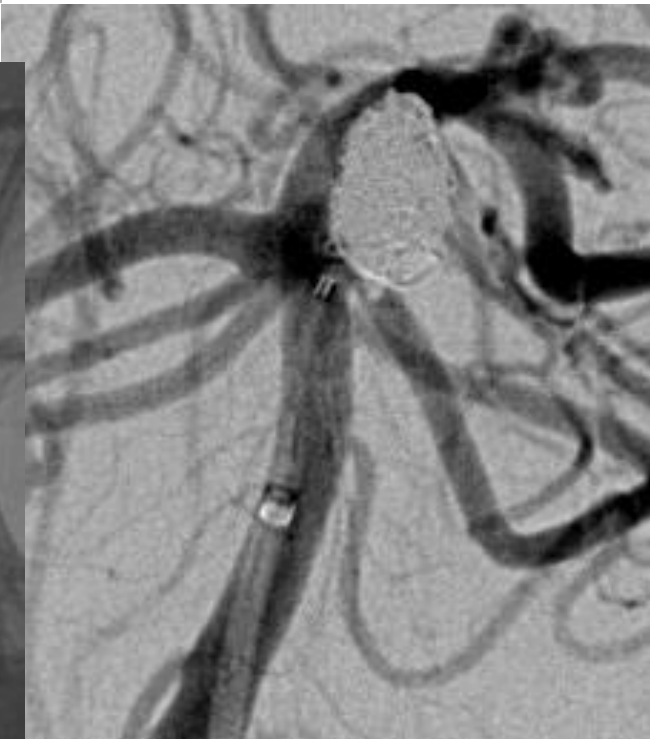
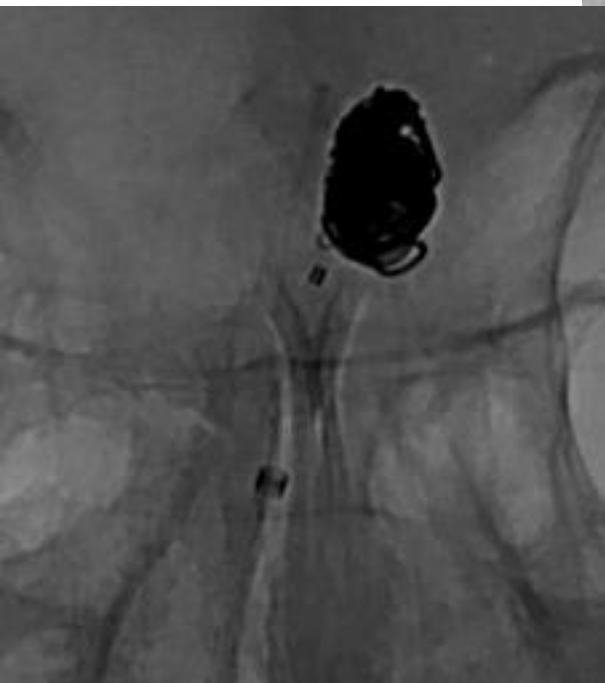
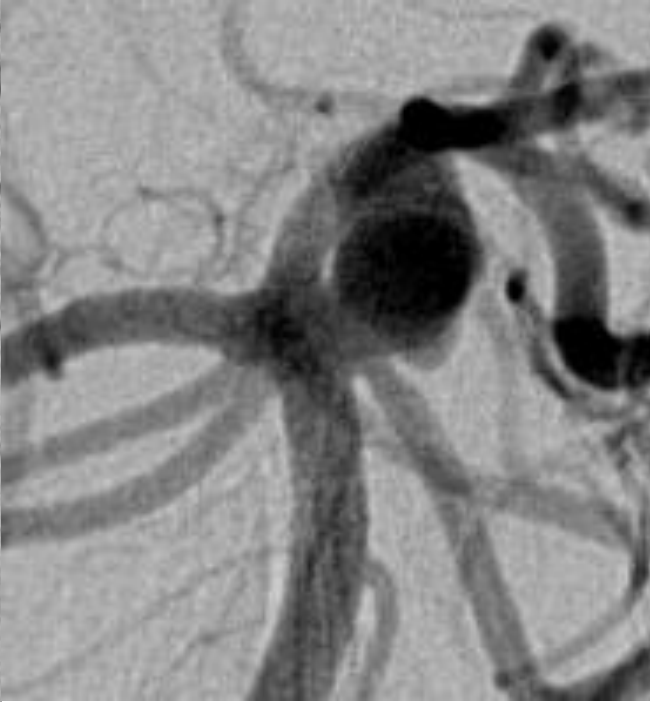
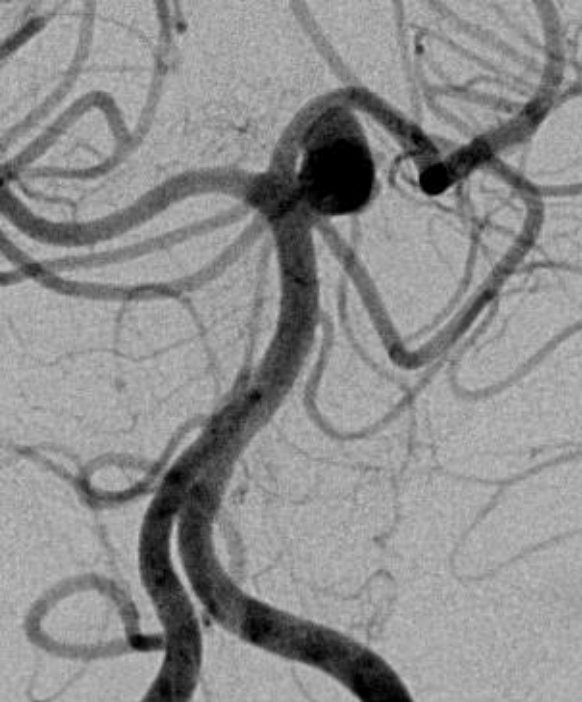


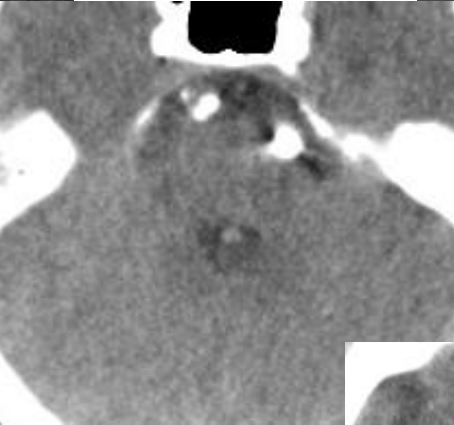
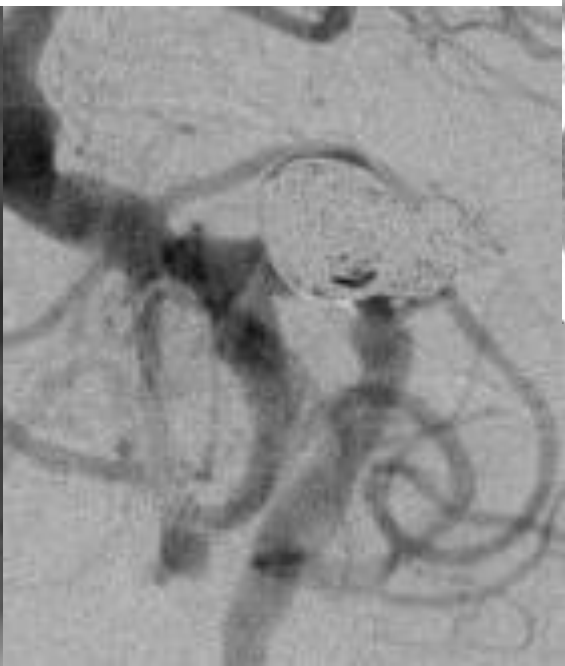
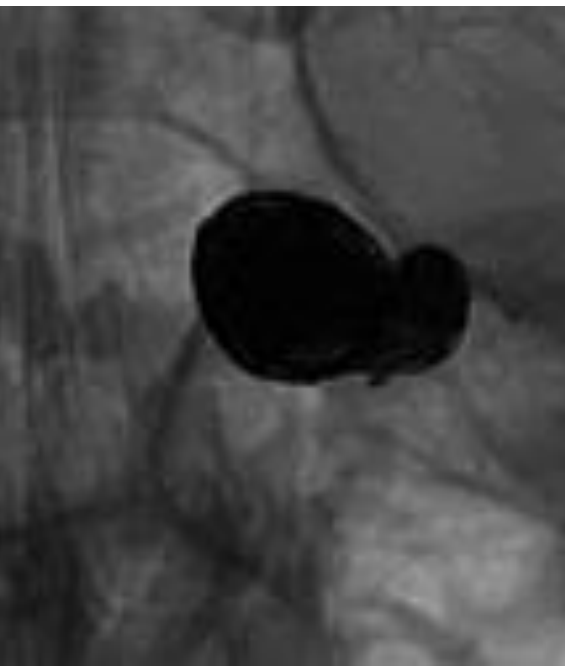
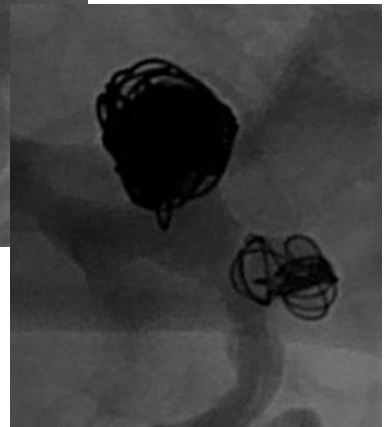
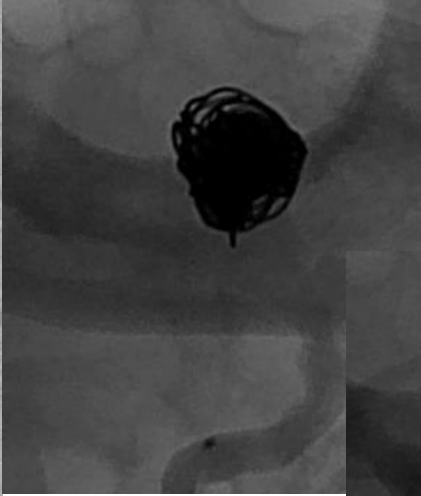


Procedural events

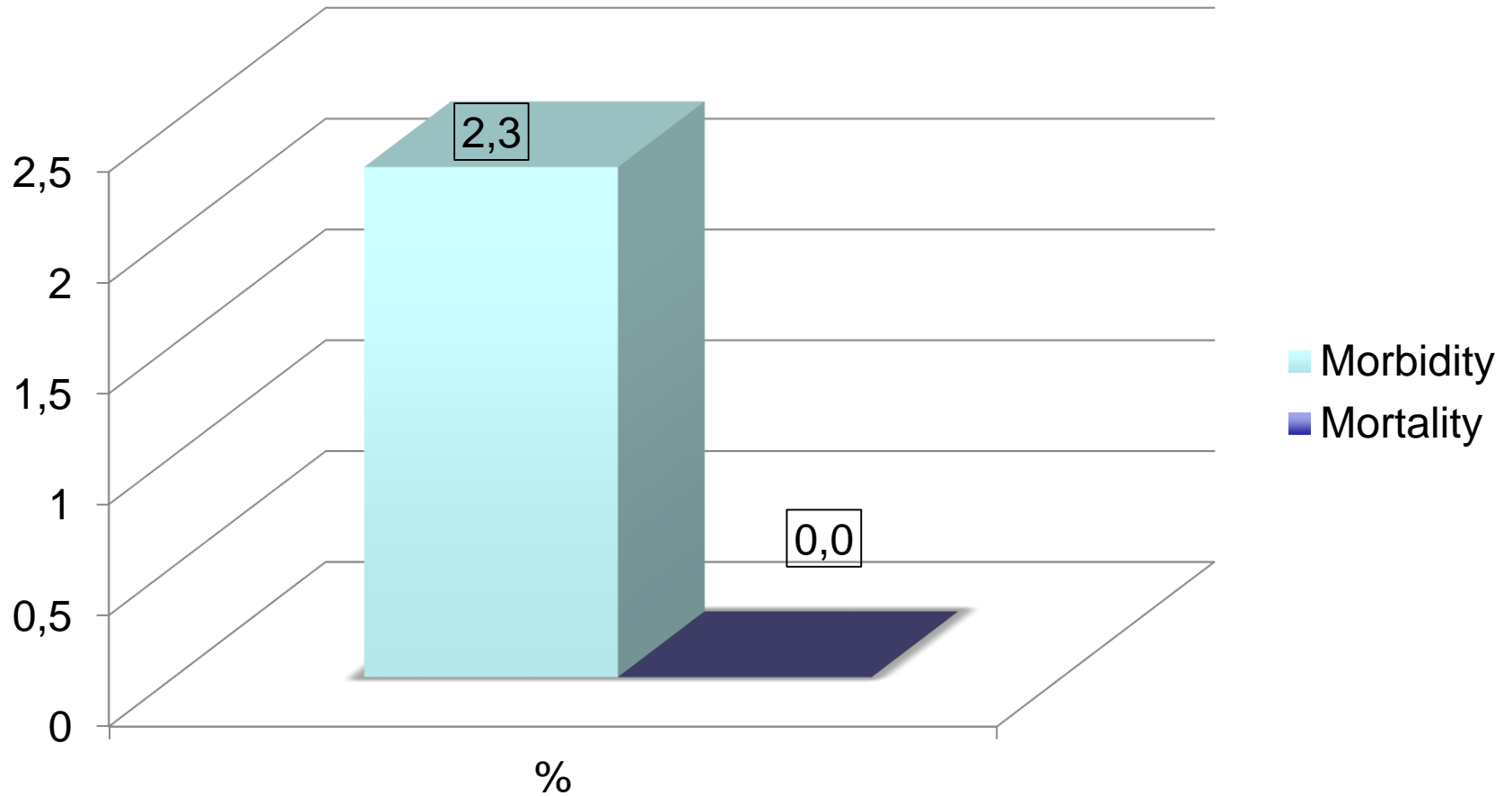
- TE events: 13 (13.4%)
 - Clotting near the neck: 4
 - Distal emboli: 8
 - Parent vessel occlusion: 1

 - Clinical worsening: 2 patients (2.3%)
- Intraoperative rupture: 5 (5.2%)
 - Clinical worsening: 0 (0.0%)

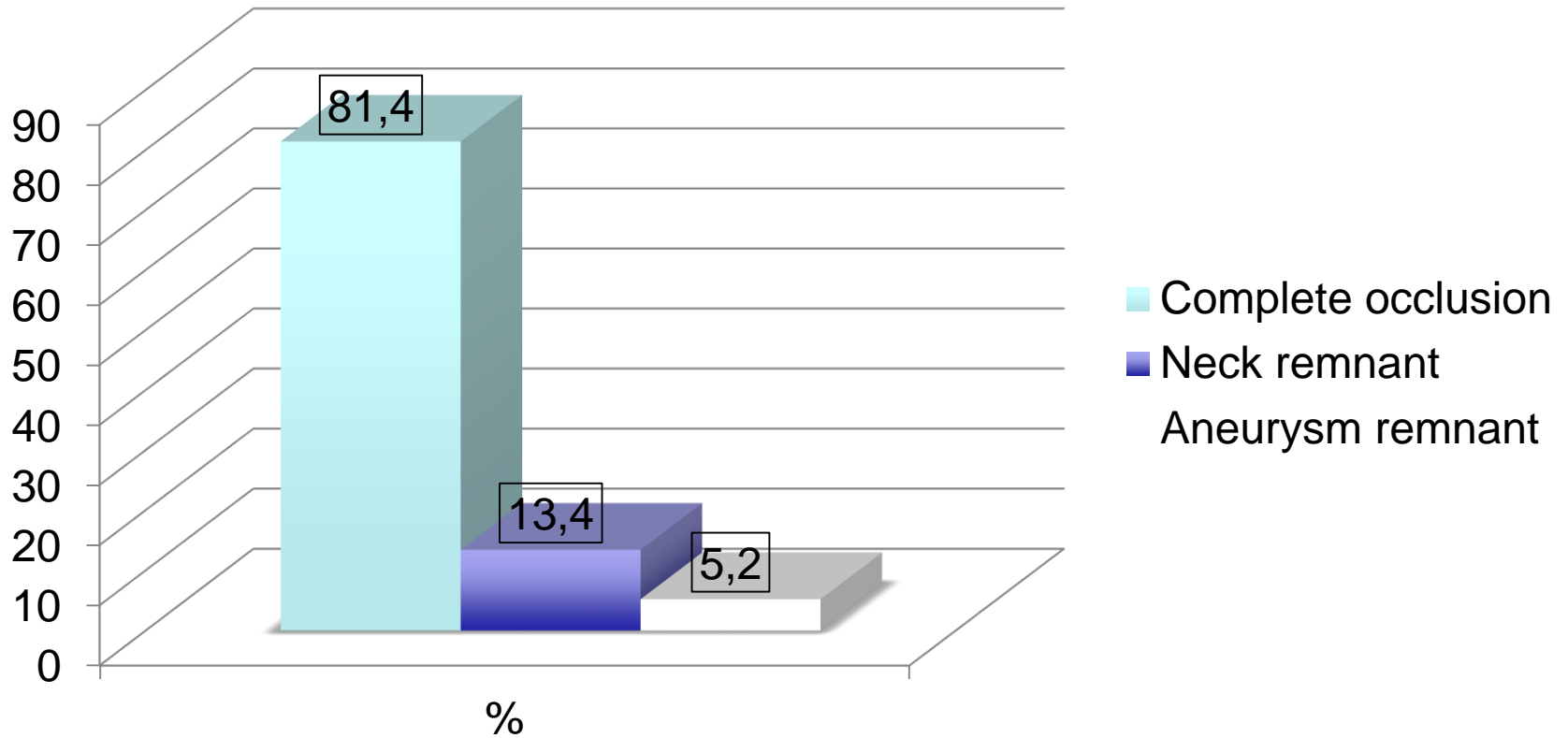




Procedural morbi-mortality



Post-operative anatomical results



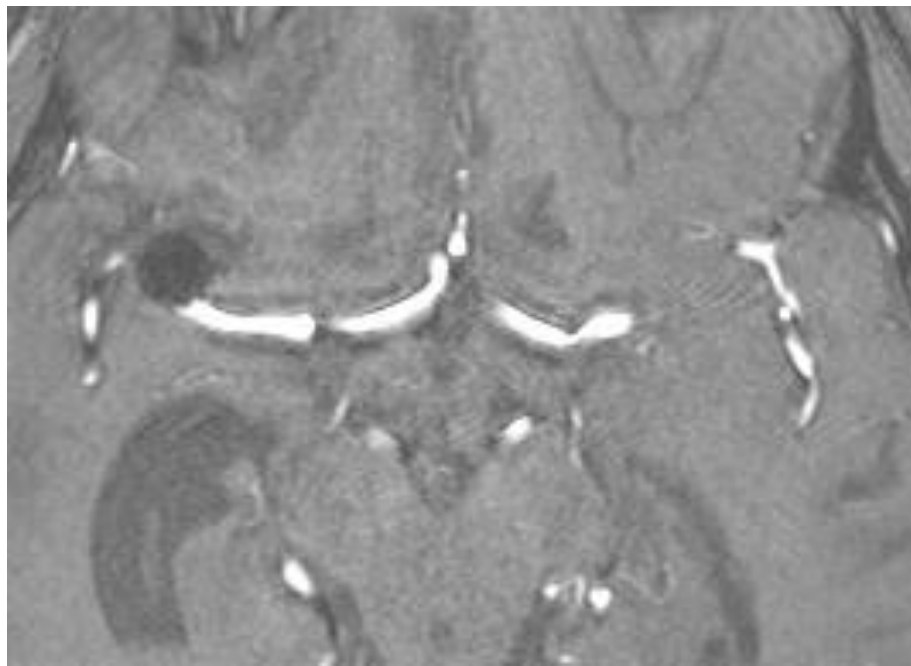
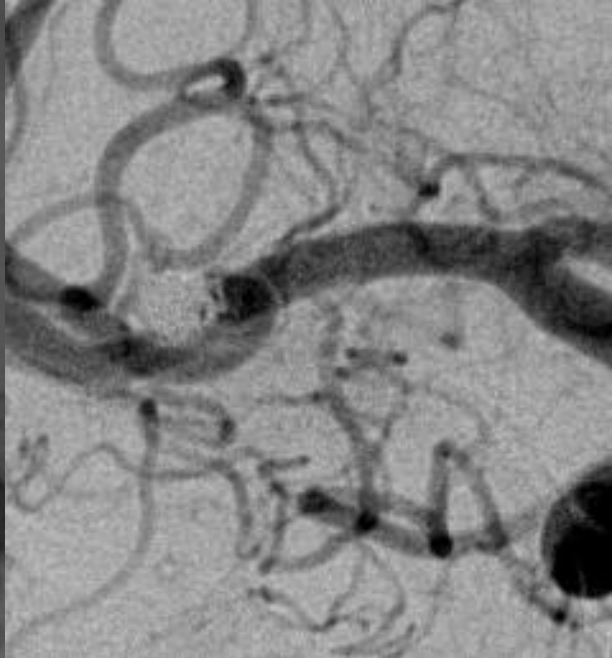
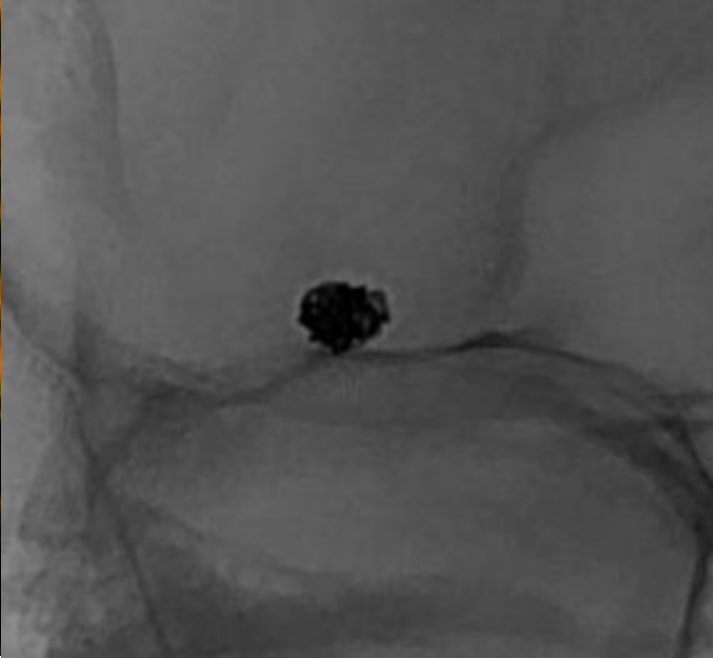
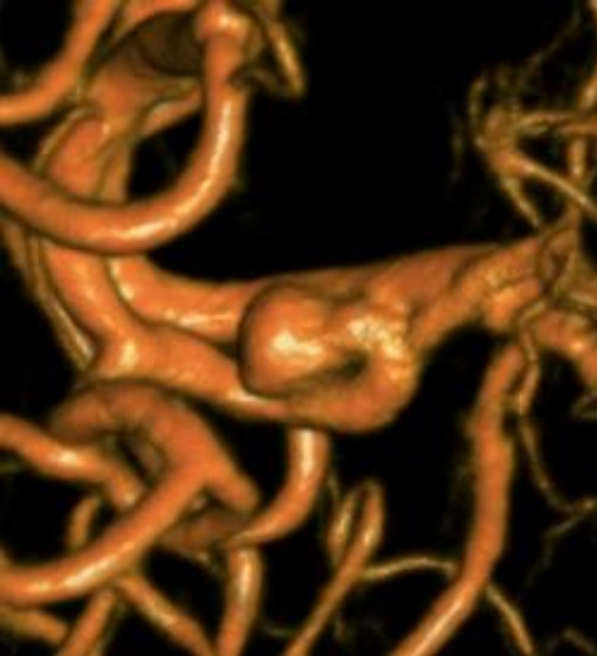
Conclusions

- In this preliminary experience
- Barricade coils were easy to manipulate
- Safety is similar to other coils
- Efficacy has to be evaluated in short, mid and long-term follow-up
- French Registry started in March 2016

Conclusions

- Limits of Barricade coils:
 - Delivery pusher delamination: no more observed after pusher modification
 - MRI blooming effect: changes of the detachment zone are underway.
 - Detachment system with cables.







ESMINT

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8th Congress of the
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