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# Buenos Aires experience with Barricade Coils First 27 Aneurysms treated with mid-term Follow Up

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## Introduction

To evaluate the safety and efficacy in the treatment of intracranial aneurysms with a new coil “Barricade”, with mid-term F-up.

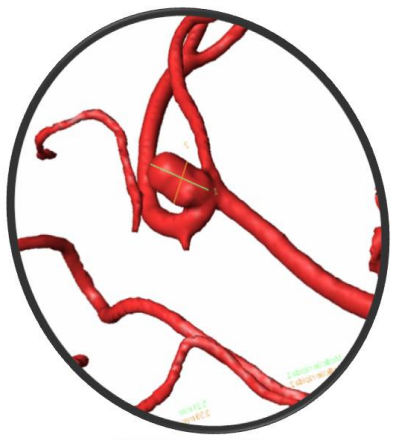
## Methods

Between June 2013 and July 2014, 26 patients (Female: 16) with 27 aneurysms underwent endovascular treatment using Barricade Coils (Framing coils, Filling and Finishing coils were used). All patients presented SAH. Aneurysms location were: PcomA (n:11), AcomA (n:9), ICA bifurcation (n:2), Basilar tip (1). MCA (1), AchA (n:1), Pericalloso (n:1) and SCA (n:1). 24 aneurysms were small and the others big.

## CASE #1

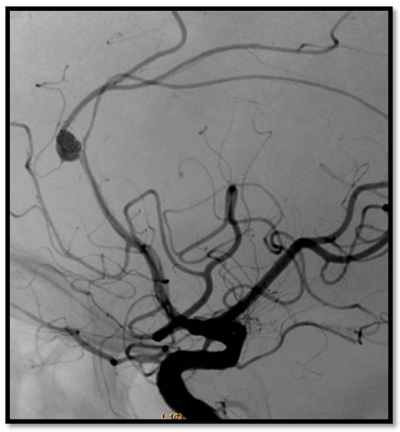
Male, 72 yo. SHA : Fisher IV
H&H III. LEFT PERICALLOSO ANEURYSM
Aneurysm Diameter
L: 4.4mm
W: 3.4 mm
N: 3.2 mm

**DSA 3D PRE TREATMENT**



**DSA POST TREATMENT WITH BARRICADE COILS**

**DSA 6 MONTHS FOLLOW UP TOTAL OCCLUSION**

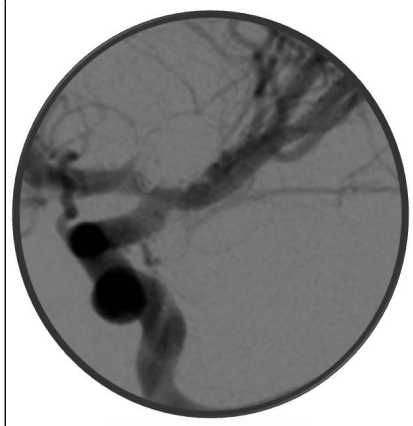


## CASE #2

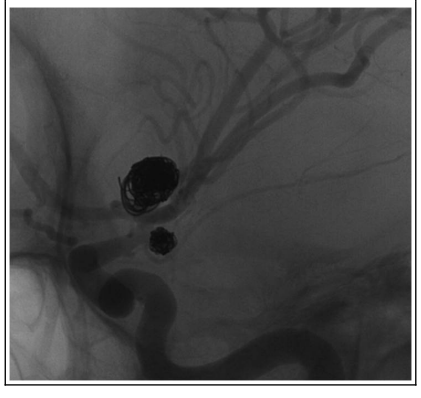
Female, 23 yo.
SHA : Fisher III / H&H II
L-AchA bleb / L-ICA bifurcation An.
L: 11.2 mm / L: 3.7
W: 8.6 mm / W: 4.9
N: 3.5 mm / N: 3.6

**DSA 3D PRE TREATMENT**

**DSA POST TREATMENT WITH BOTH ANEURYSM WITH BARRICADE COILS**



**DSA 7 FOLLOW UP WITH TOTAL OCCLUSION OF BOTH ANEURYSMS**



## COIL PERFORMANCE

Exceptional Framing with stable basket
Successful Framing in wide range of aneurysm shapes
Minimal catheter kick back during embolization
One of the softest finishing coils available
Predictable behavior
“Competitive Coil”

## Results

All procedures were performed without any technical complications. A total of 131 coils were implanted and deployed successfully (mean time to detach: 4-6 sec). Immediately total occlusion occurred in 23 aneurysms, 6 aneurysms required stent assistance due to wide neck. Mid-Term follow up (6 months: range 6 to 11 months) was performed in 24 aneurysms showing total occlusion in 20 of them and neck remnant in the others.

## Conclusions

Barricade coils proved to be safe and effective to treat intracranial aneurysms with a predictable behavior. Long term follow up will be needed to show long term efficacy.

## Learning Objectives