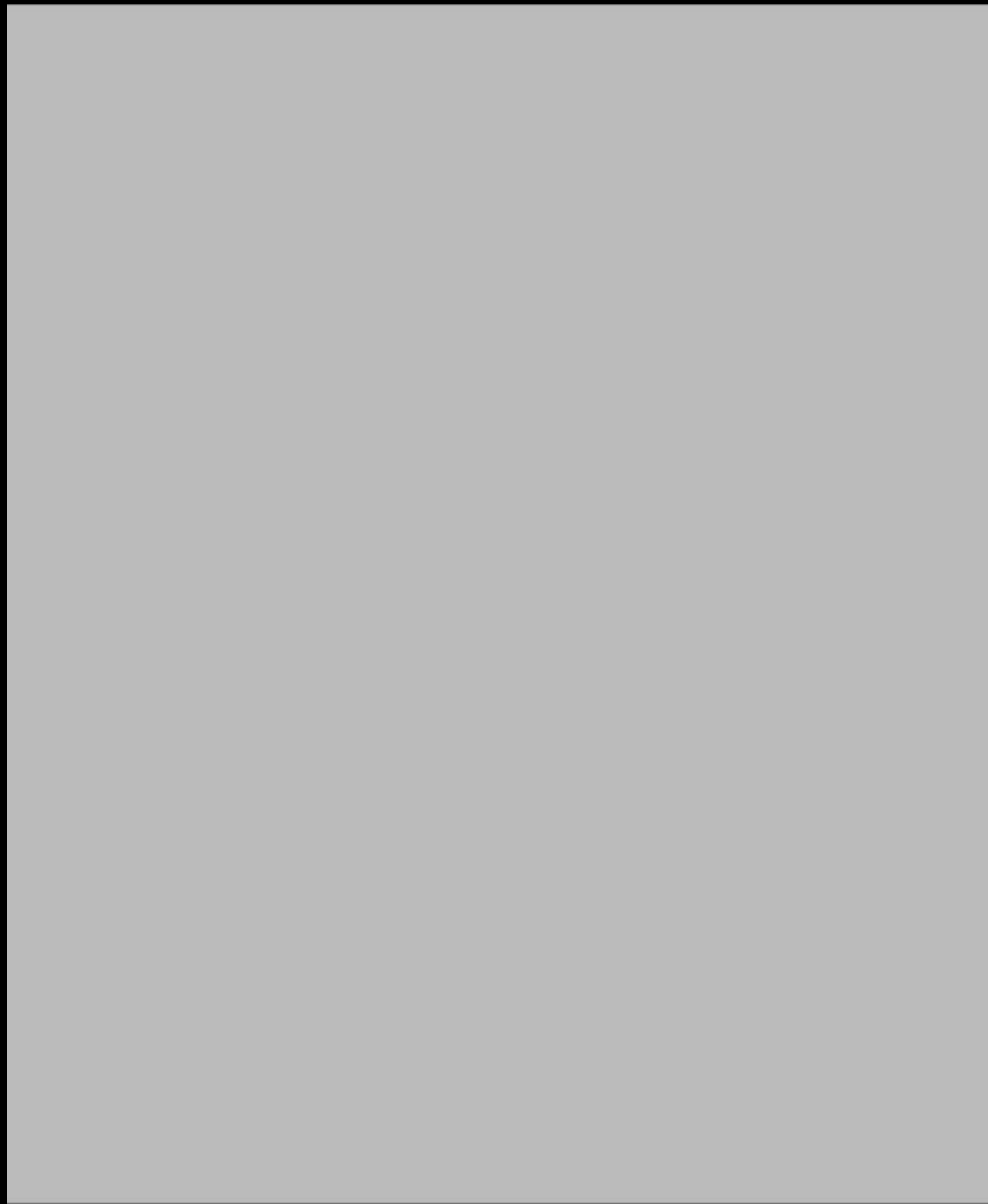
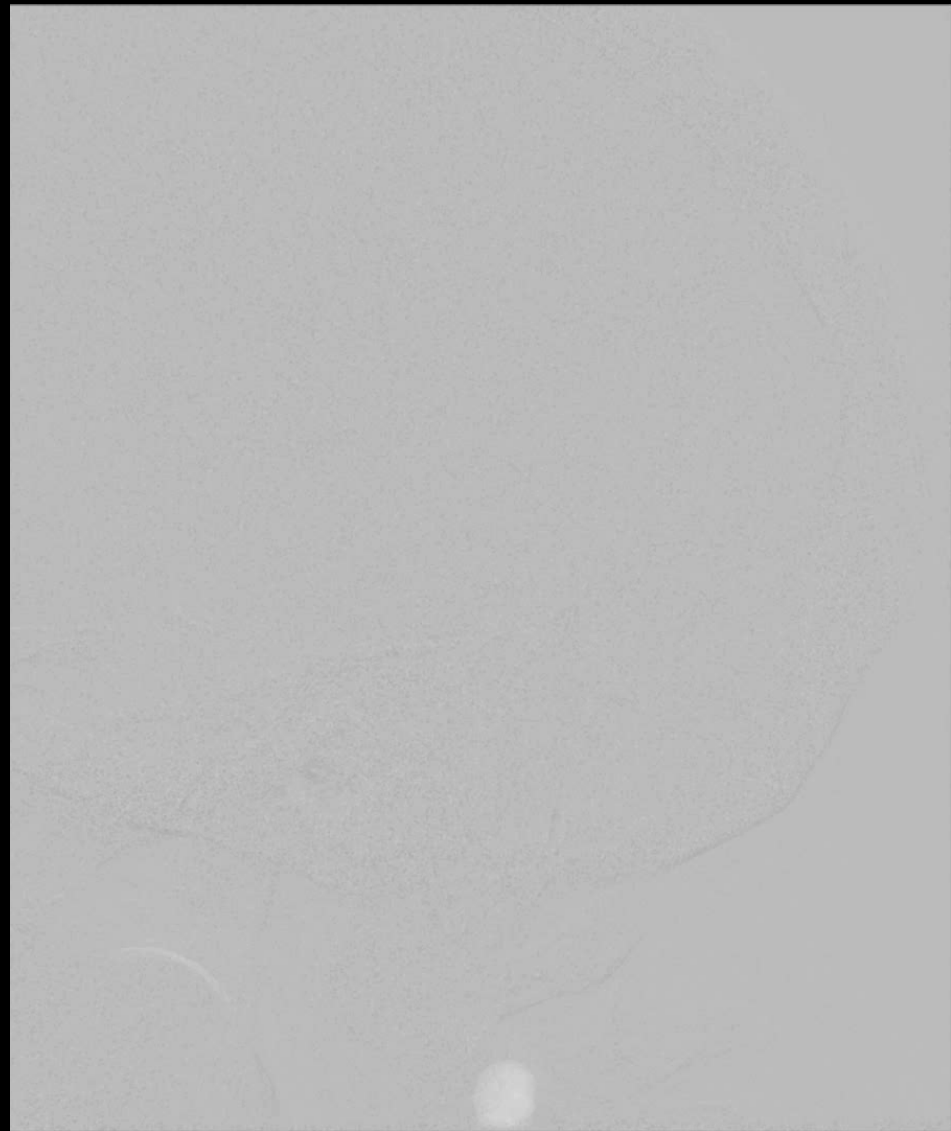
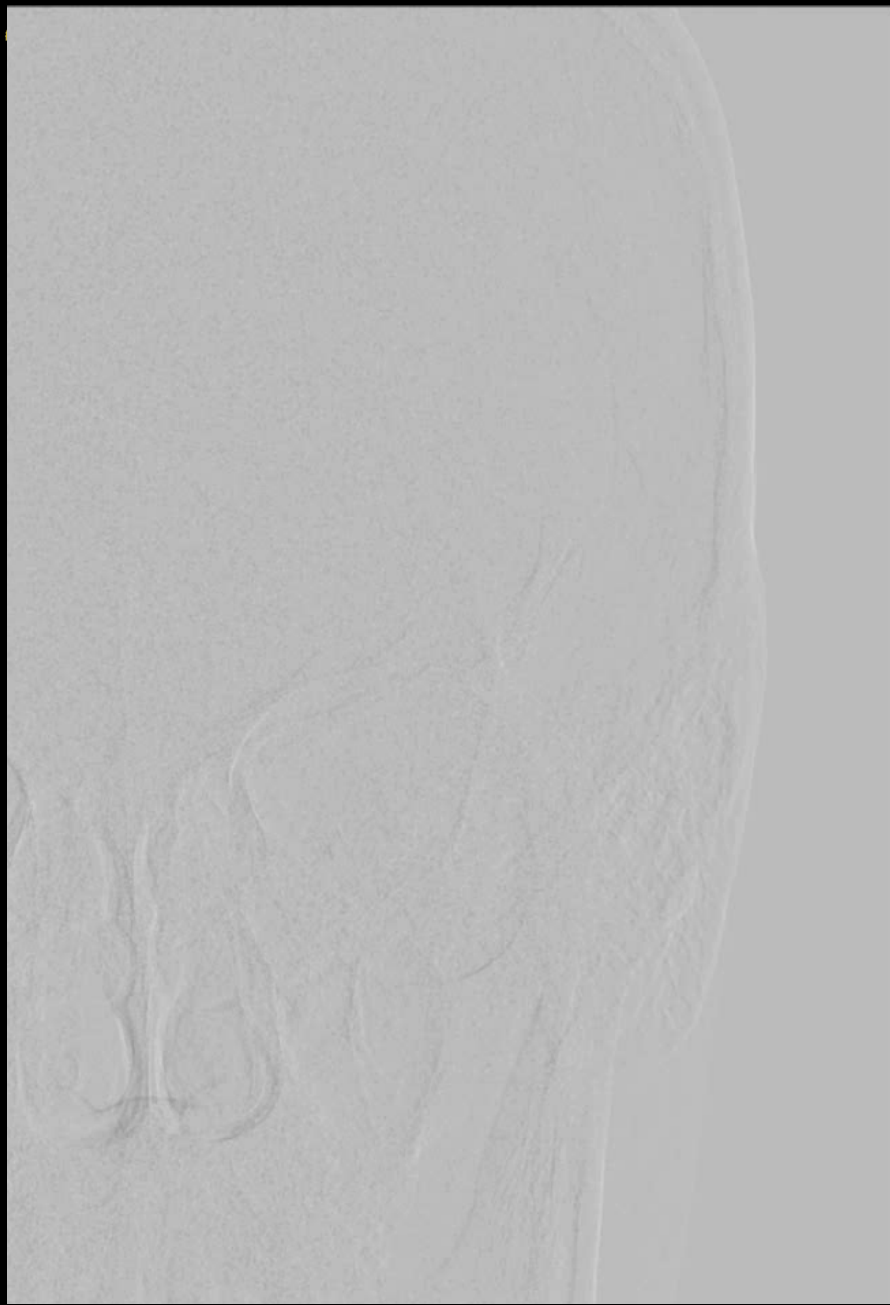


Case #2

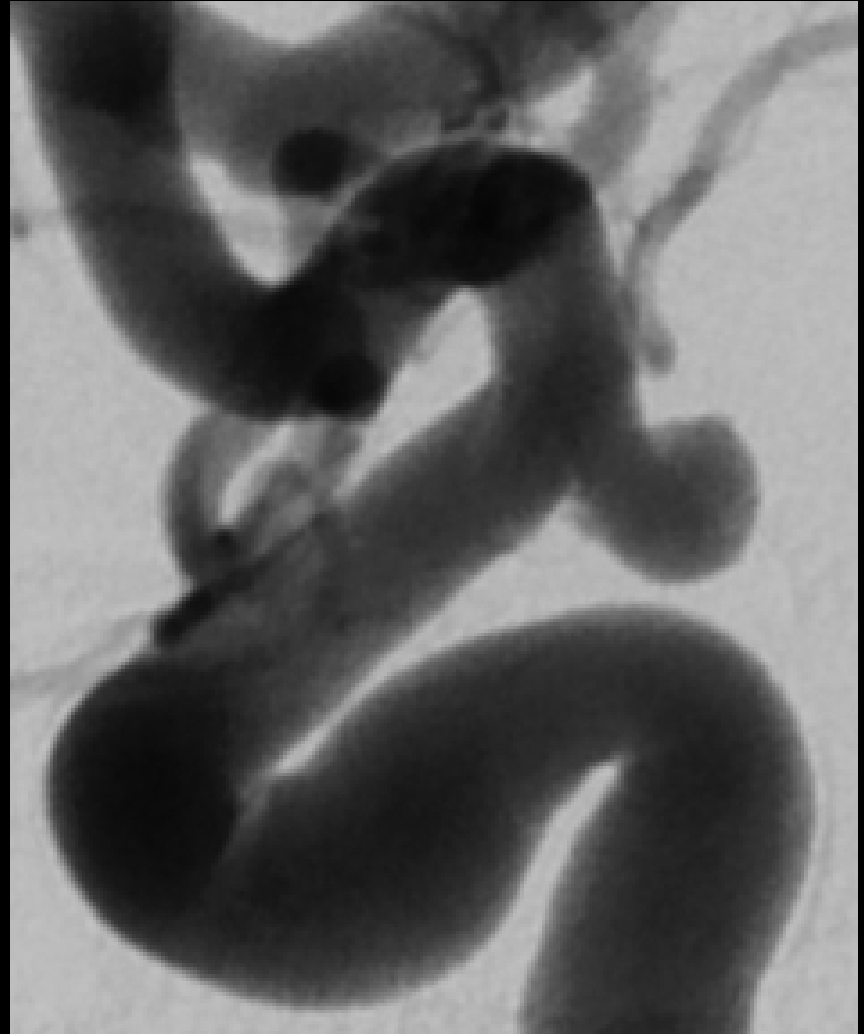
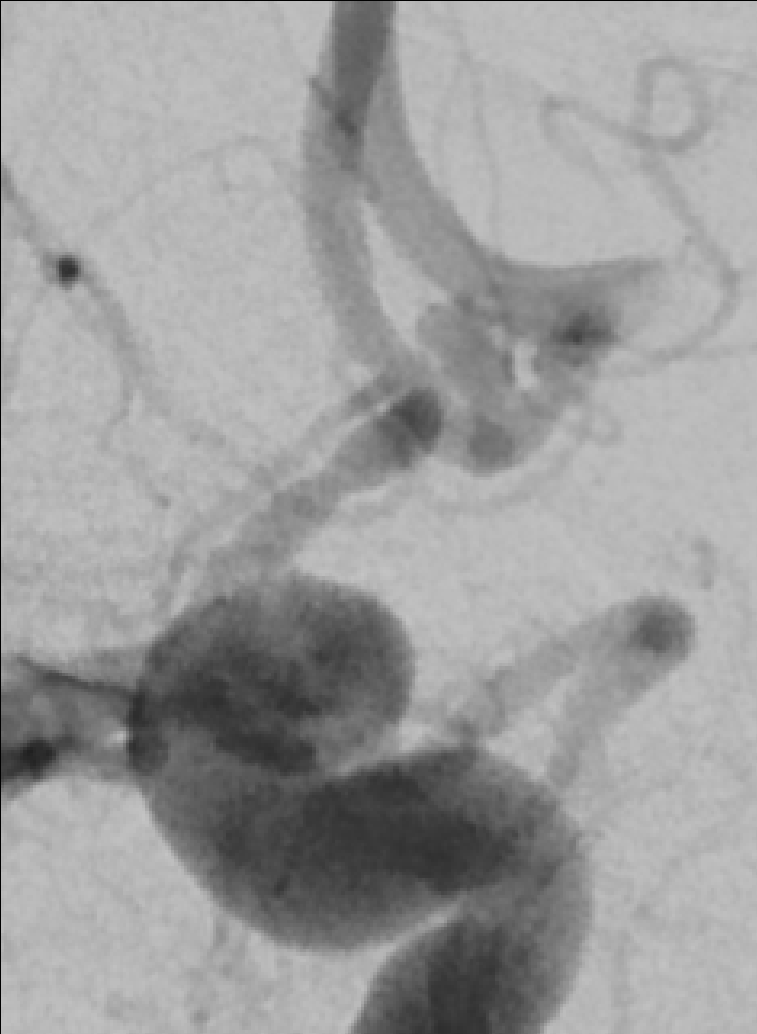
A 43yo woman presents with Hunt and Hess 2, Fisher 3 SAH:

- 5mm left PComm aneurysm
- 2mm Acomm aneurysm
- Spetzler-Martin grade 4 L parieto-occipital AVM



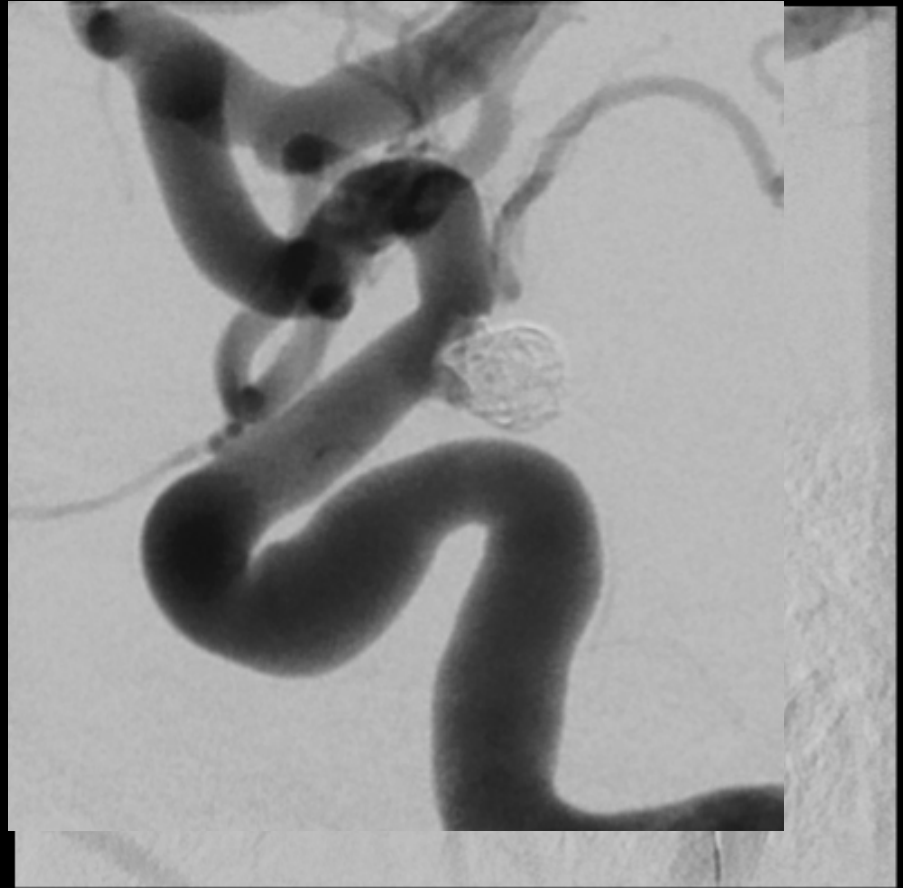
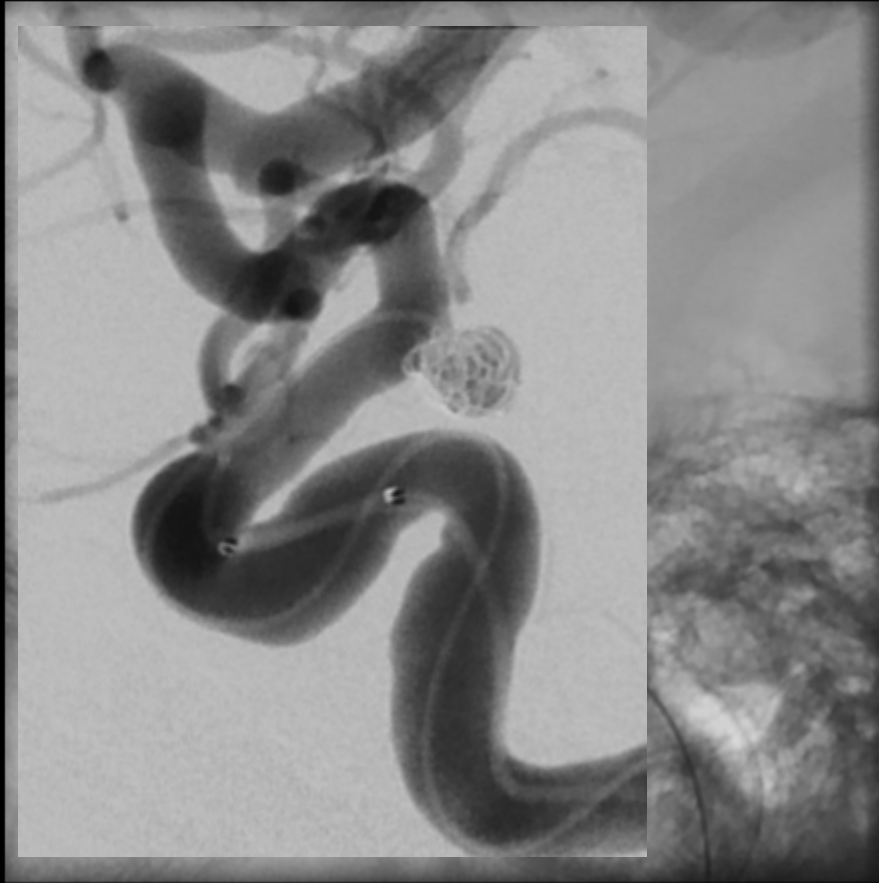


43yo woman presents with Hunt and Hess 2, Fisher 3 SAH
5mm LPComm aneurysm, 2mm Acomm aneurysm and a
S-M4 L parieto-occipital AVM

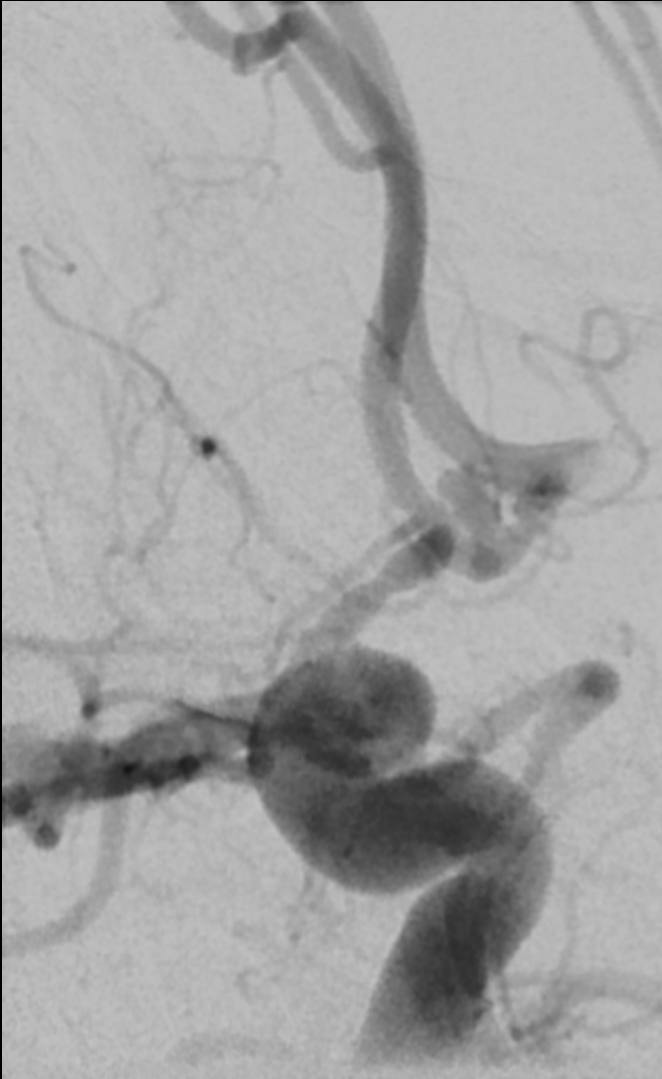


Poll: The Best Course of Action Is?

1. Craniotomy for clipping of both aneurysms
2. Right-sided craniotomy for clipping of Acomm aneurysm only
3. Left-sided craniotomy for excision of the AVM and clipping of both aneurysms
4. Coiling of Pcomm aneurysm
5. Coiling of Acomm aneurysm
6. Coiling of both aneurysms
7. Coiling of both aneurysms and embolization of the AVM



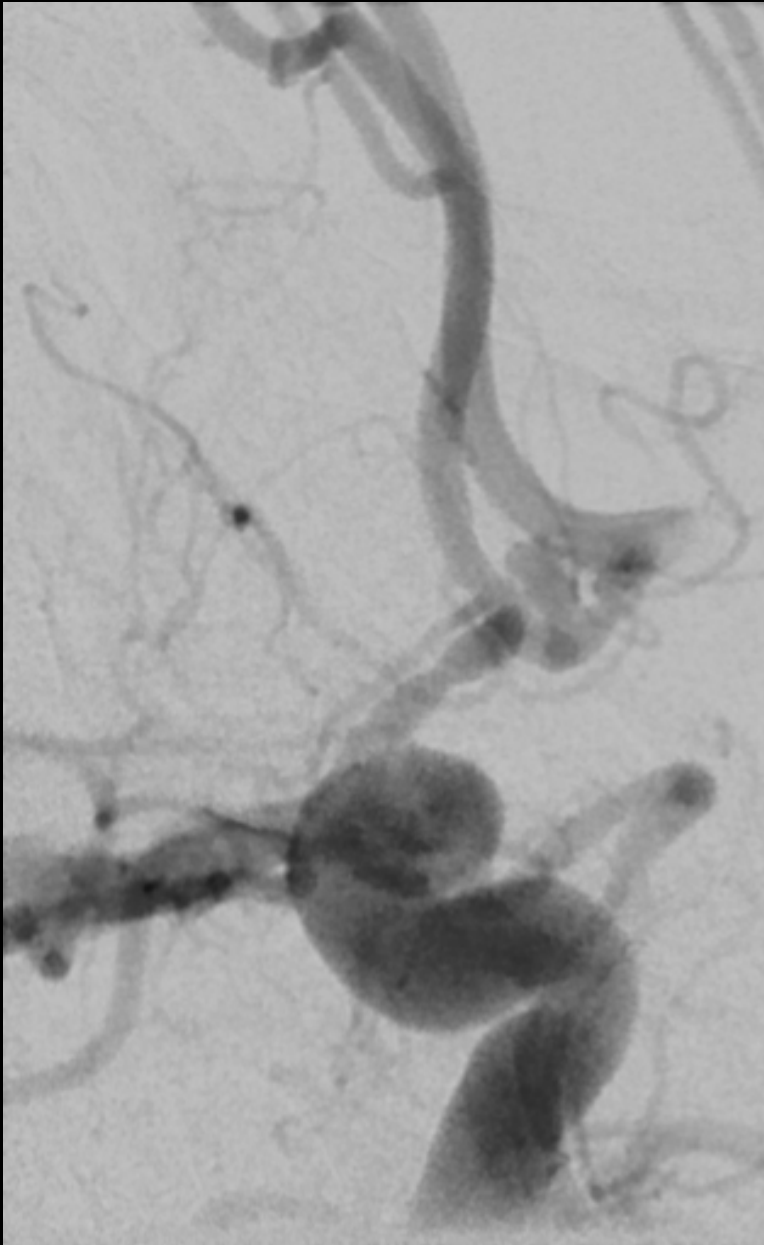
The decision is made to coil the left Pcomm and explore the possibility of coiling the Acomm also. A hydroframe 5x15 is chosen and this is placed with balloon assistance. A hydrosoft 3x6 is placed and the aneurysm is deemed reasonably well coiled.



- 45 minutes is spent attempting to catheterize the Acomm aneurysm from both sides.
- The aneurysm is small and the access is tortuous.
- I begin to get the feeling that I might hurt her if I keep trying to get a catheter into this small Acomm aneurysm.

Poll: The Best Course of Action Is?

1. Right-sided craniotomy for clipping of Acomm aneurysm emergently
2. Right-sided craniotomy for clipping of Acomm aneurysm when best OR team is available, within next 2 days
3. Medical management through the vasospasm period before any further treatment because the larger aneurysm is treated.
4. Craniotomy for excision of AVM and clipping of Acomm aneurysm
5. Persist in attempting to coil the Acomm aneurysm using other techniques



- She is awakened from the coiling, and has no deficits.
- The Acomm aneurysm is clipped from the right side and fresh subarachnoid clot is seen on the aneurysm.
- She awakens from the craniotomy aphasic and hemiplegic on the right.



Study Date: 1/28/...
Study Time: 2:51:...
MRN: 49344125

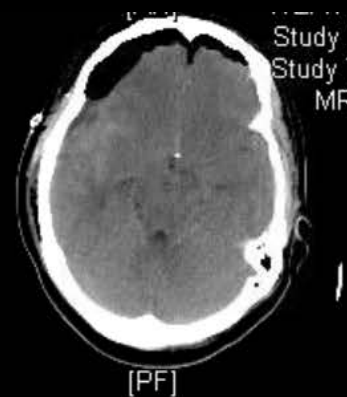
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[L] [R]

C40 THICK WO
W100

CK WO

[PF]



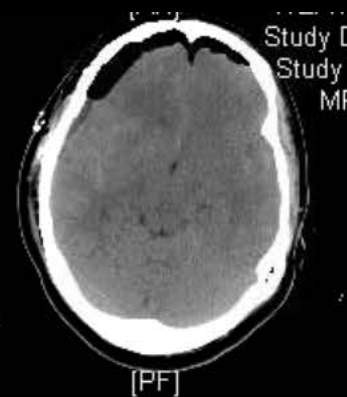
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[L] [R]

C40 THICK WO
W100

[PF]



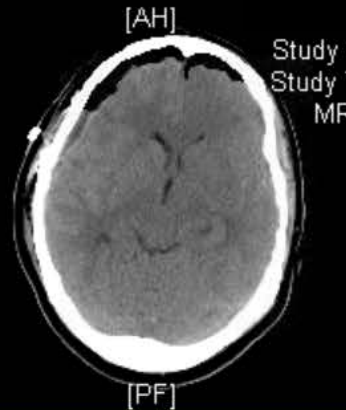
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Study Time: 2:51:...
MRN: 49344125

Im: 12

[L] [R]

[PF]

2
2



Study Date: 1/28/...
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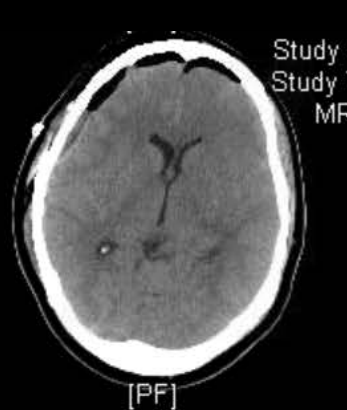
Im: 13

[L] [R]

C40 THICK WO
W100

CK WO

[PF]



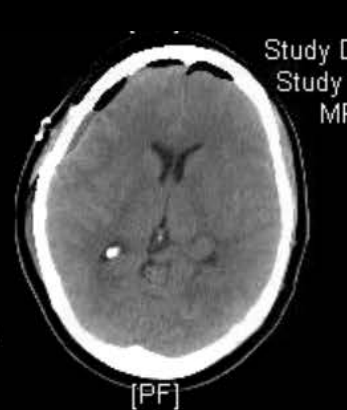
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Study Time: 2:51:...
MRN: 49344125

Im: 14

[L] [R]

C40 THICK WO
W100

[PF]

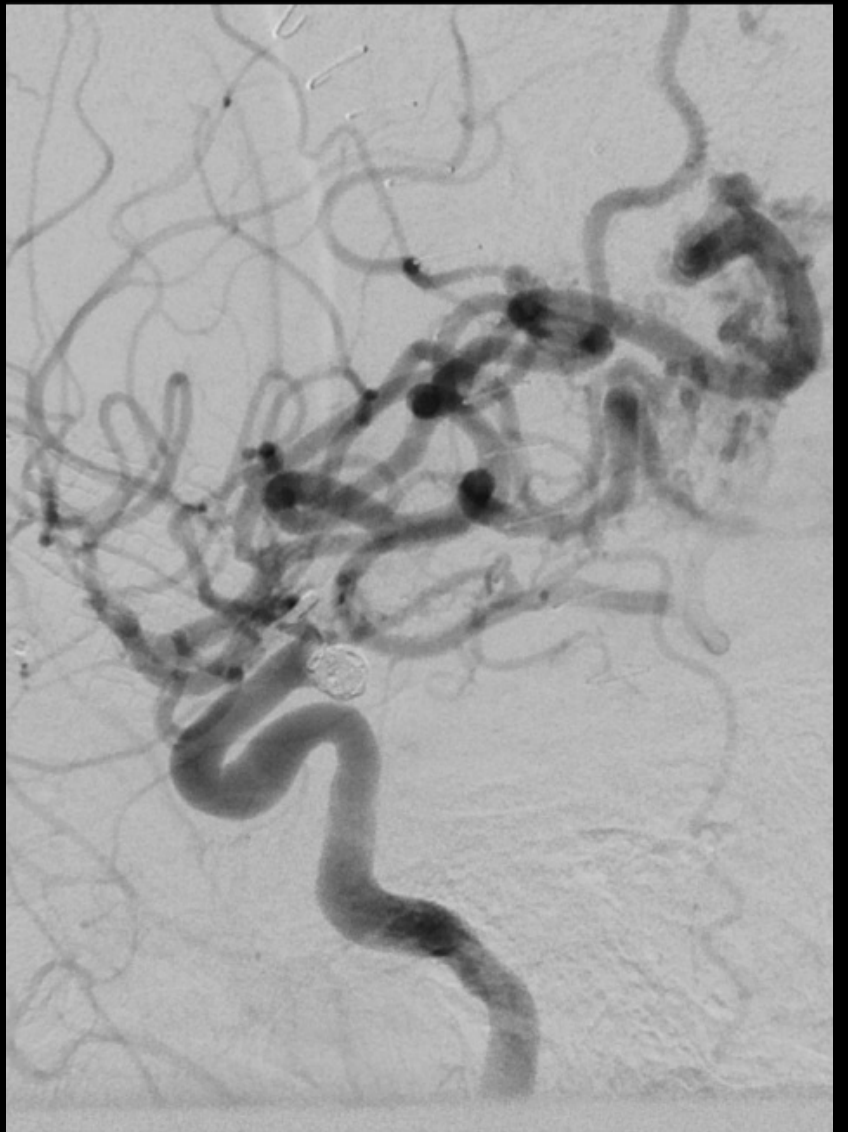
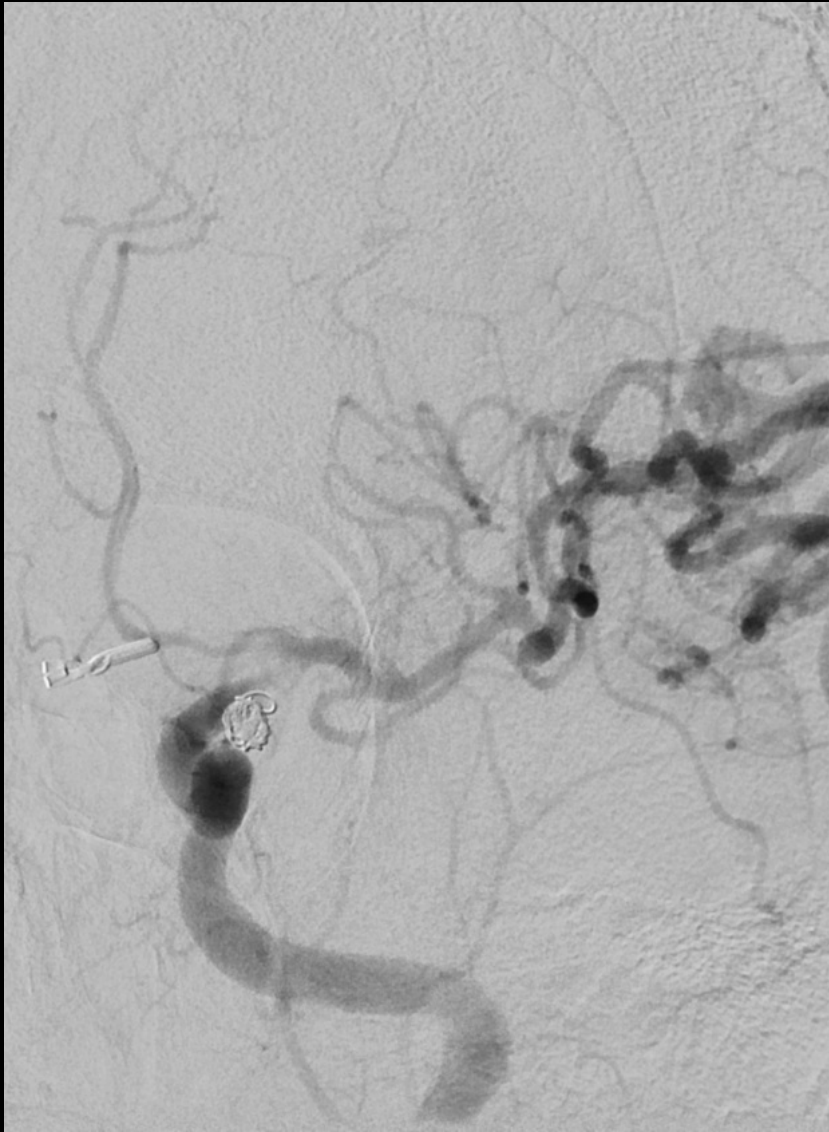


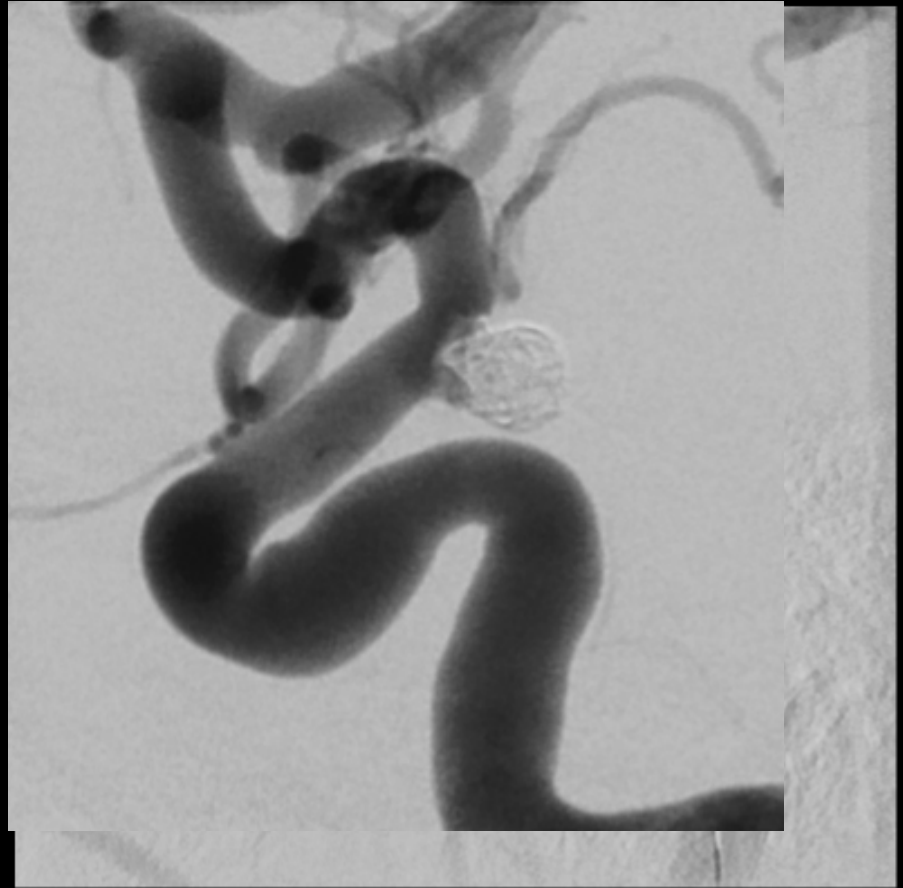
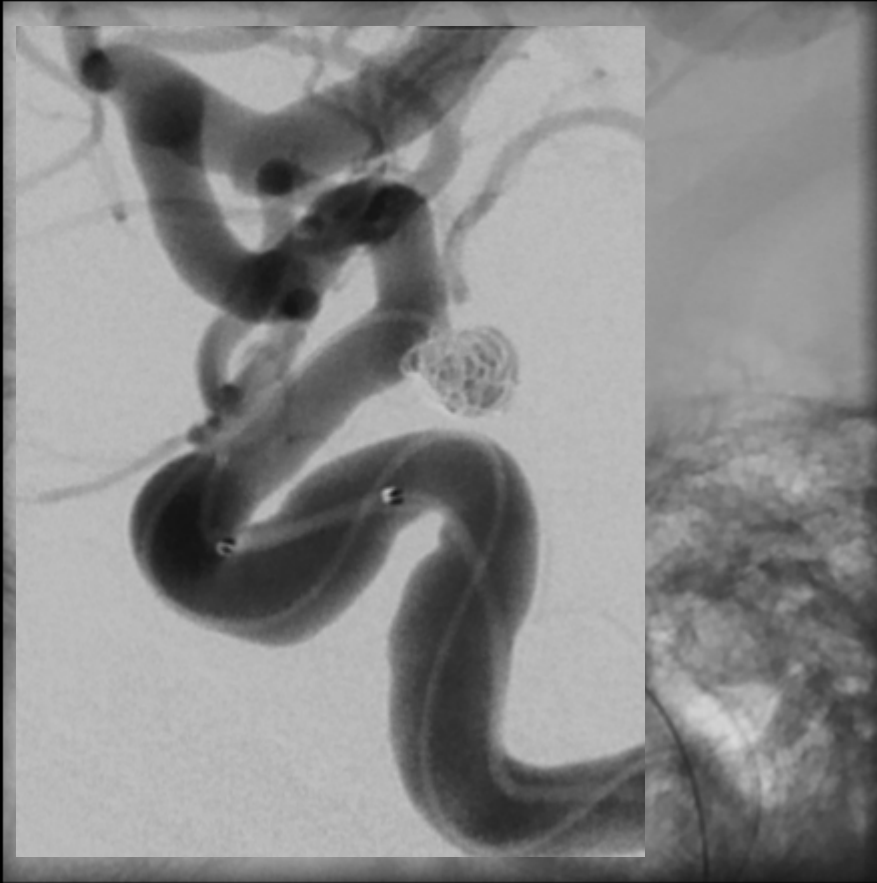
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MRN: 49344125

Im: 15

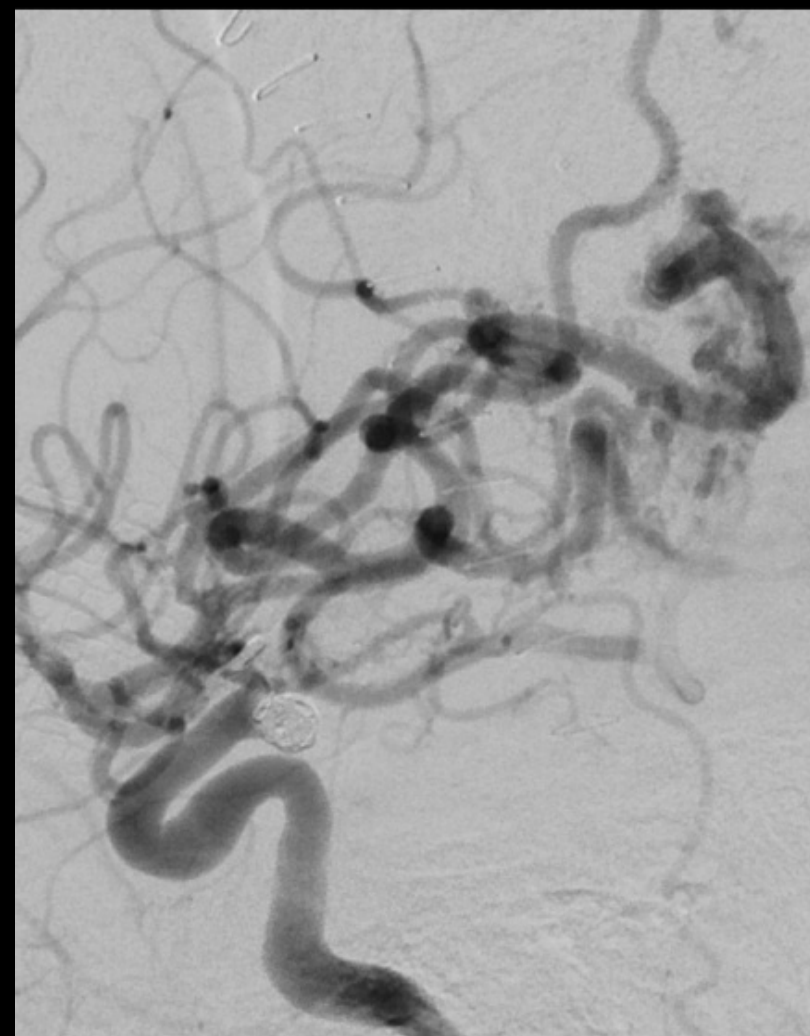
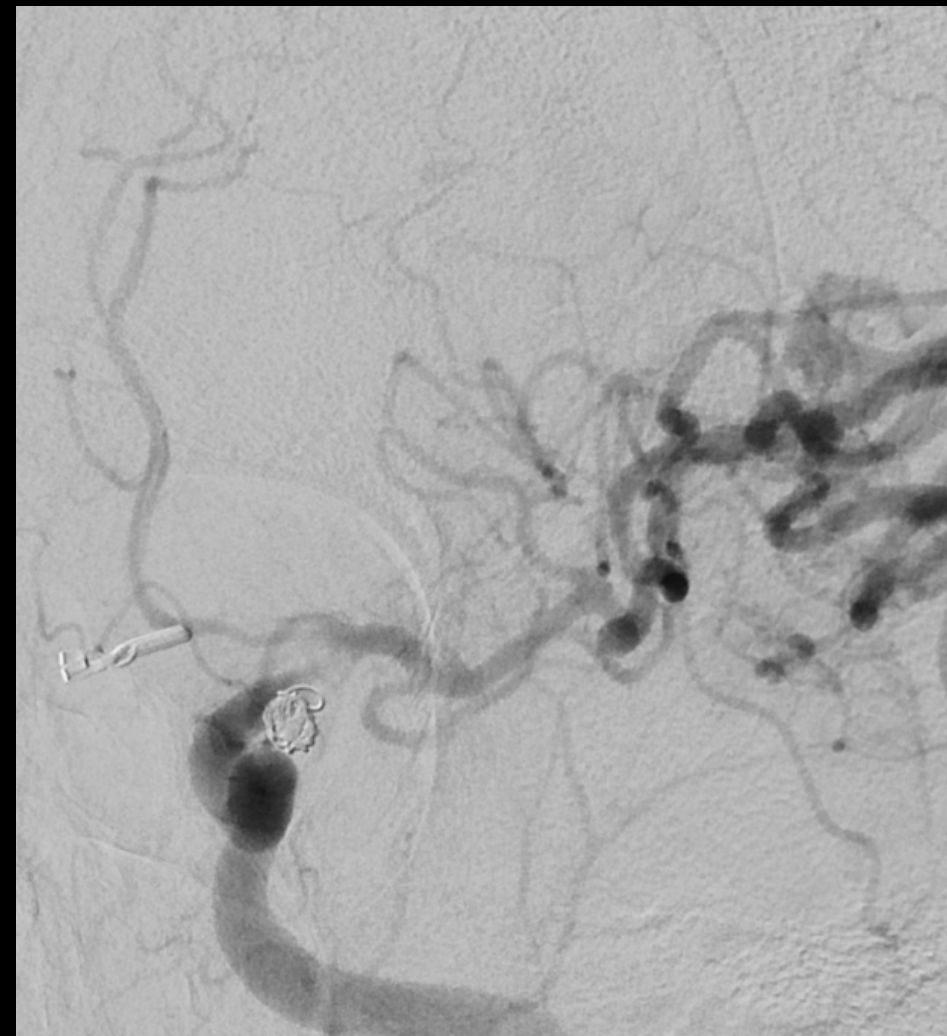
[L] [R]

[PF]





This is what the coils looked like at the end of coiling- I missed the clot seen on the coil at the aneurysm neck and the significant movement of the coil.



4mg abciximab is infused directly into the clot through a microcatheter with some improvement and an IV abciximab drip is started. The RICA is checked and the aneurysm is well clipped without other issues. When the diagnostic catheter is returned to the left, the clot seems to be worsening and progressing towards occlusion.



- A stent is deployed with good resolution of the clot and the patient is awakened.
- She has an incomplete MCA stroke, but significant aphasia and hemiparesis.

Lessons:

1. I should treat the aneurysm that I believed ruptured and that judgement should be made on the basis of aneurysm morphology, not size.
2. It is stupid to be over-aggressive with coils in a SAH patient, particularly if they have other problems (AVM, multiple aneurysms)
3. I need to pay attention. The coils moved. A 3D dual-volume dynaCT might have shown vessel impingement. Its better to know and we have good imaging tools to inspect what we have done.
4. I don't actually regret avoiding the left-sided craniotomy, nor that I stopped trying to catheterize the Acomm aneurysm.