

Case 2: knowledge and training

- You *need both* to successfully treat and avoid complications
- This is what's missing in the discussion today about non-neuro physicians doing thrombectomies!

Knowledge matters!

- 37 yo male
- Previously healthy
- Sudden L hemiparesis when biking

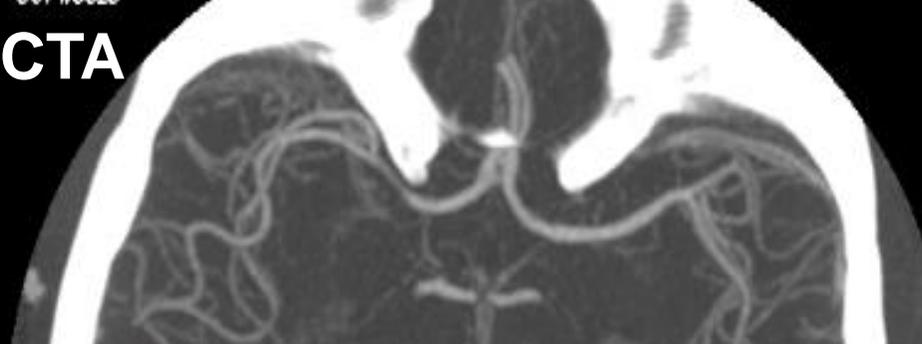
- NIHSS score 14
- L hemisymptoms
- Neglect

At admittance

CT



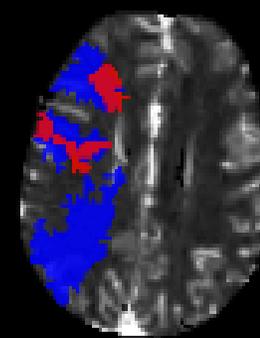
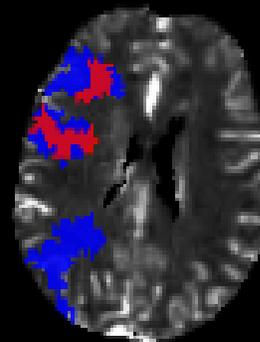
CTA



CTA



CTP OLEA



Treatment

- M1 upper siphon occluded
- Good by-pass effect
- No yield from MT
- Slightly improved flow

**Initial
run**



Device in place



**After
MT**



Now what...?

- Try again?
 - Change device?
 - Change technique?
- or,

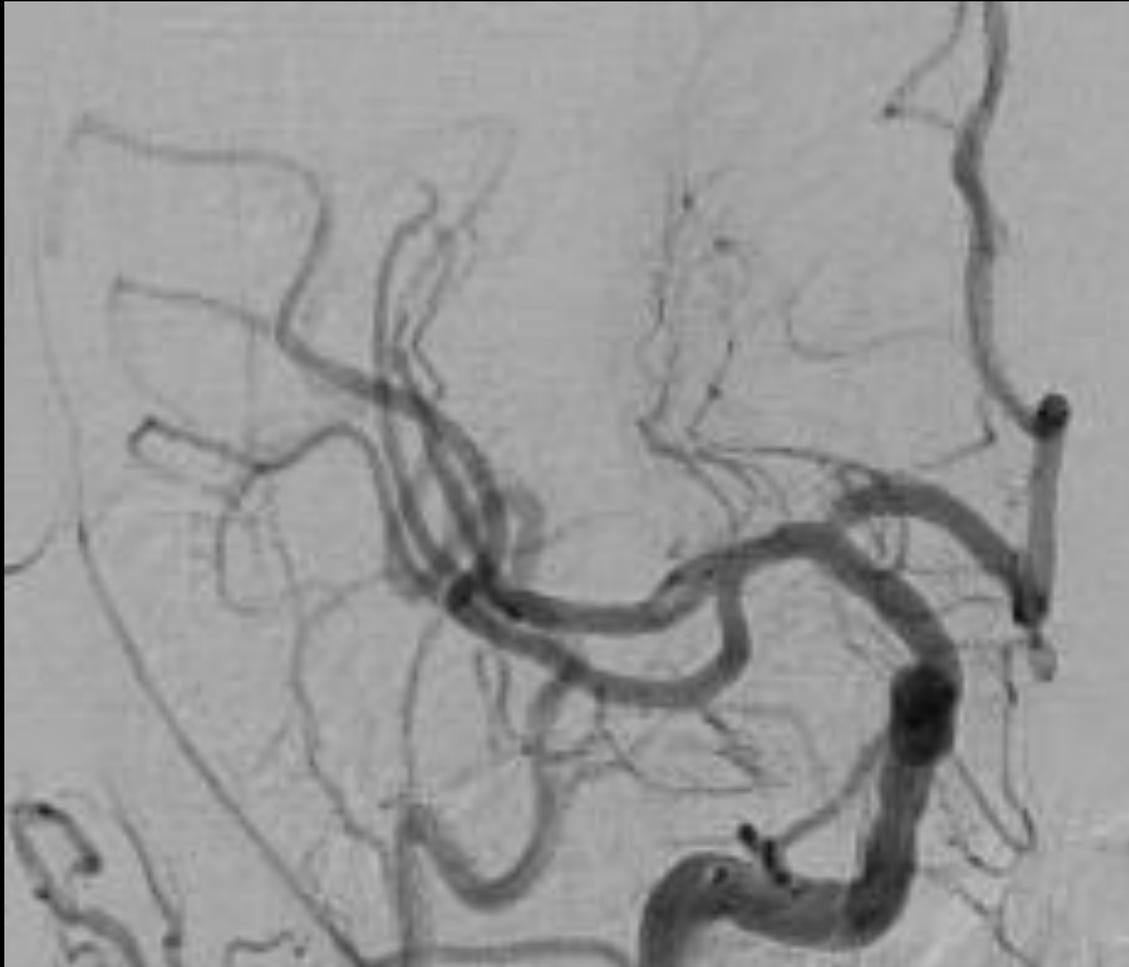
...use *your knowledge, experience*
and *training*

Circumstantial evidence

- 37 yo
- No medical = cardiac history
- Fluctuating flow
- Good temporary by-pass effect
- No yield

Intracranial dissection!

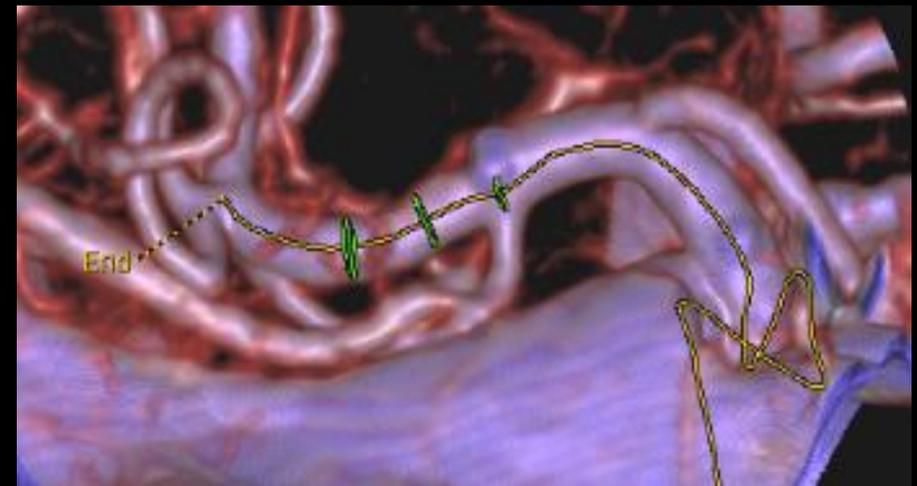
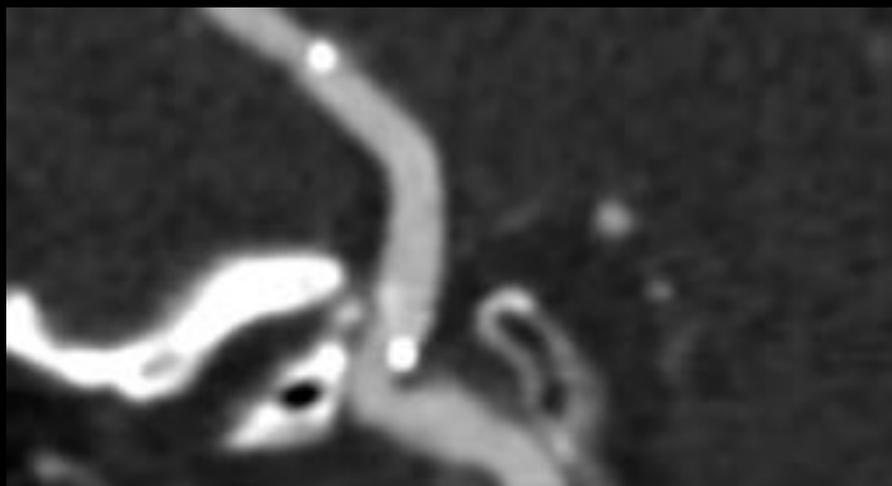
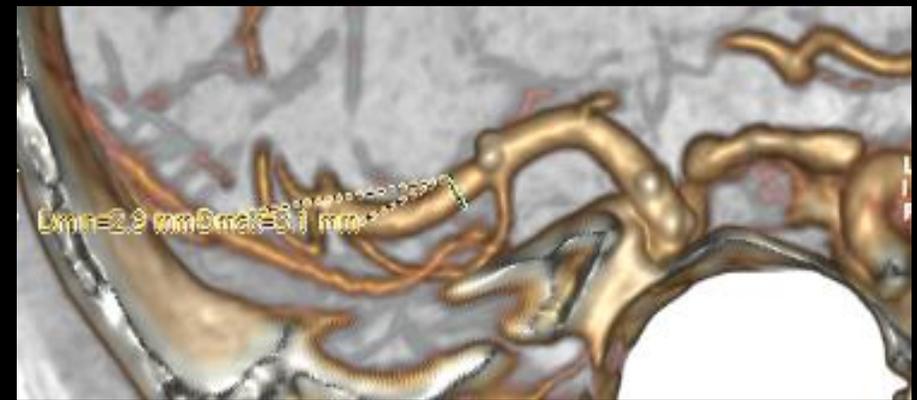
**Final run after
stenting**



24 h CT



48 h CTA

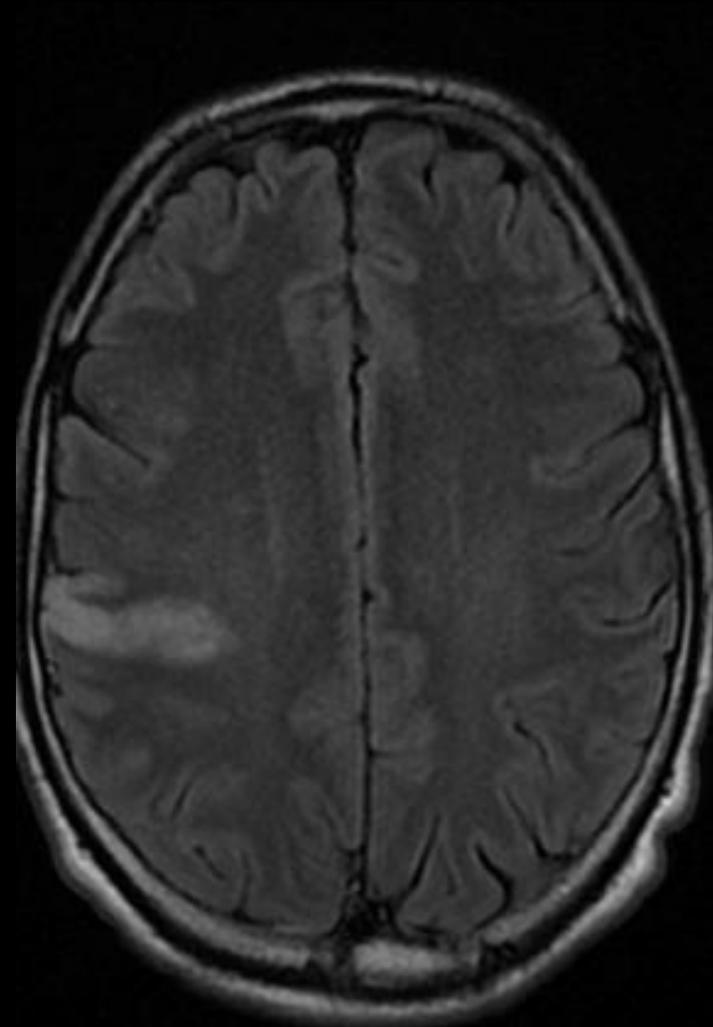
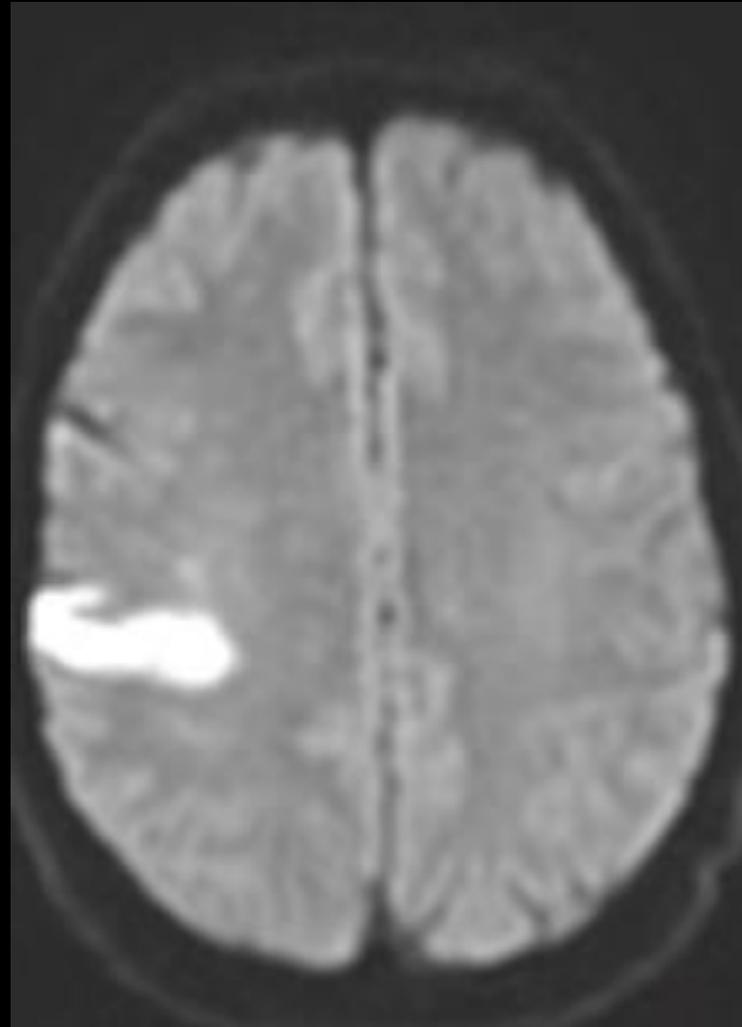


48 h MR

DWI

T2 FLAIR

- Home after 72h
- NIHSS = 1



Important!

...it requires *knowledge, training and experience* to perform mechanical thrombectomies effectively and safely

and,

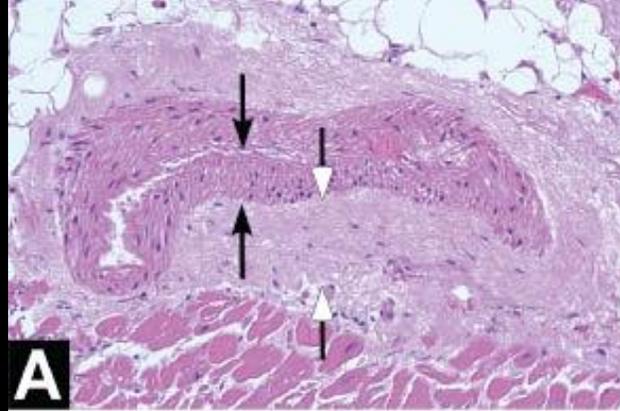
...you need to *care* for the patients properly

Knowledge

- About the brain as an organ
- About the intracranial circulation
- About the specifics of intracranial arteries

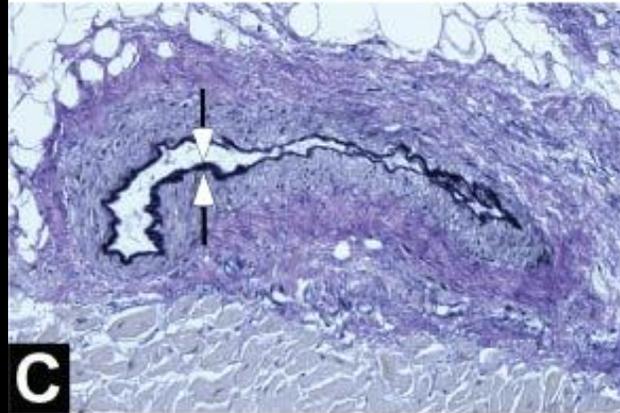
LAD

Muscularis
Adventitia

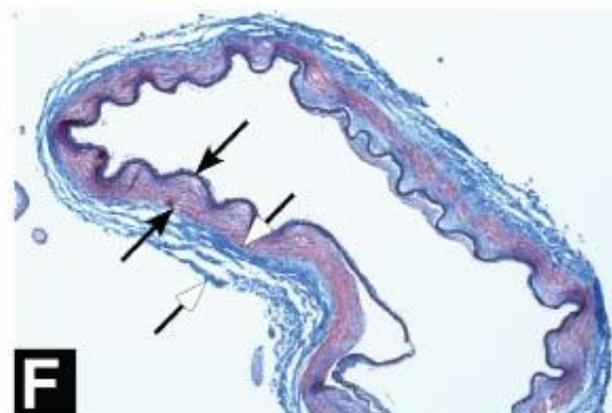
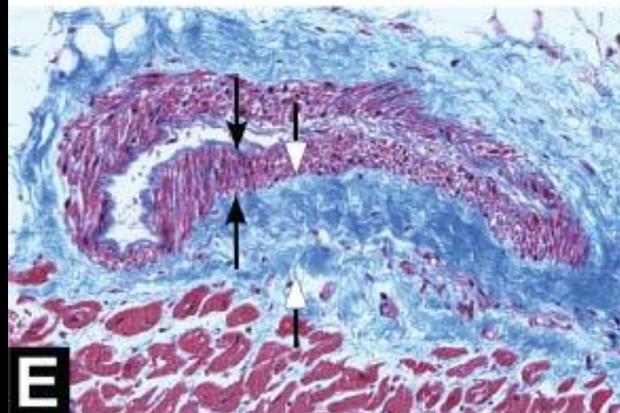


MCA

Internal
elastic



Collagen,
stained
blue



And, it's difficult to get the training and experience

- Acute patients – difficult to practice
 - Simulators?
 - Animal courses?
 - Need also to *do other neurointerventional procedures* and work in a group with experienced neurointerventionists

We should never...

...prohibit someone to help a patient with a thrombectomy...but...

...make sure that she/he has proper knowledge, training and experience...and that appropriate care for the patients is available