

## 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!

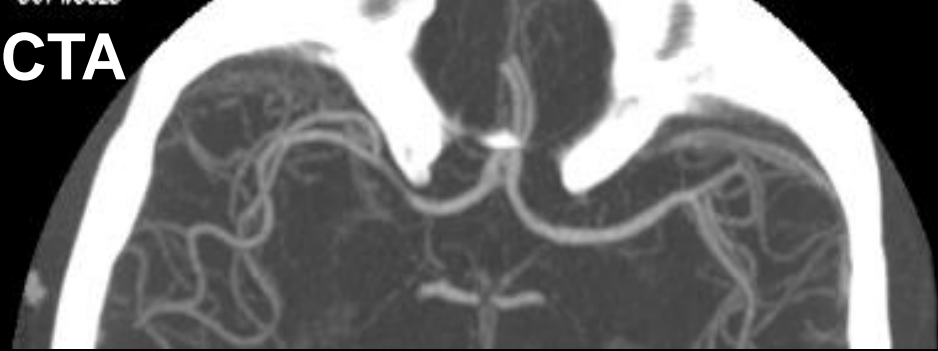
- 37 yo male
  - Previously healthy
  - Sudden L hemiparesis when biking
- 
- NIHSS score 14
  - L hemisymptoms
  - Neglect

**At admittance**

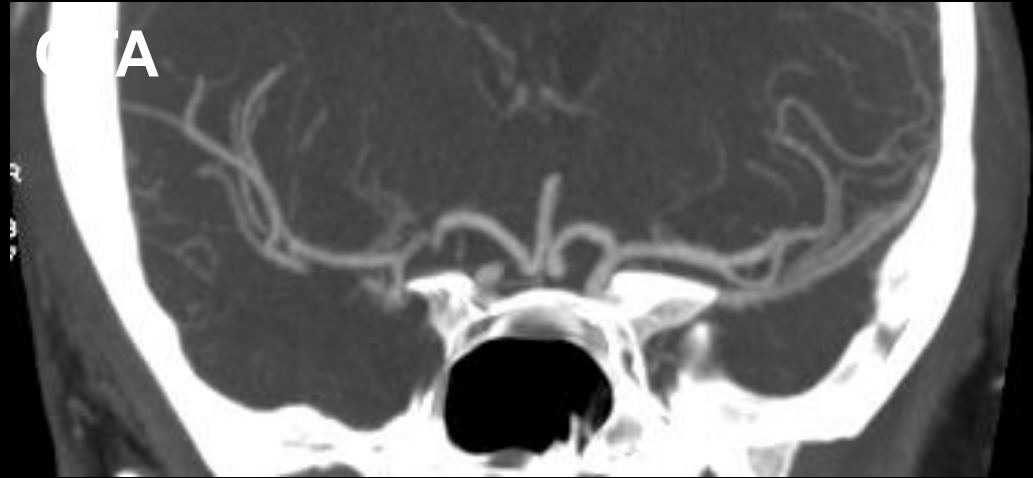
**CT**



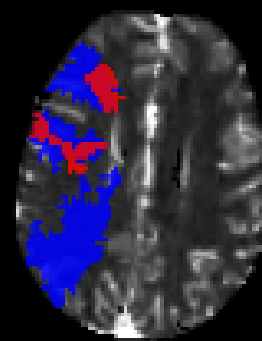
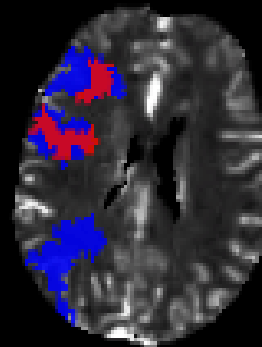
**CTA**



**CTA**



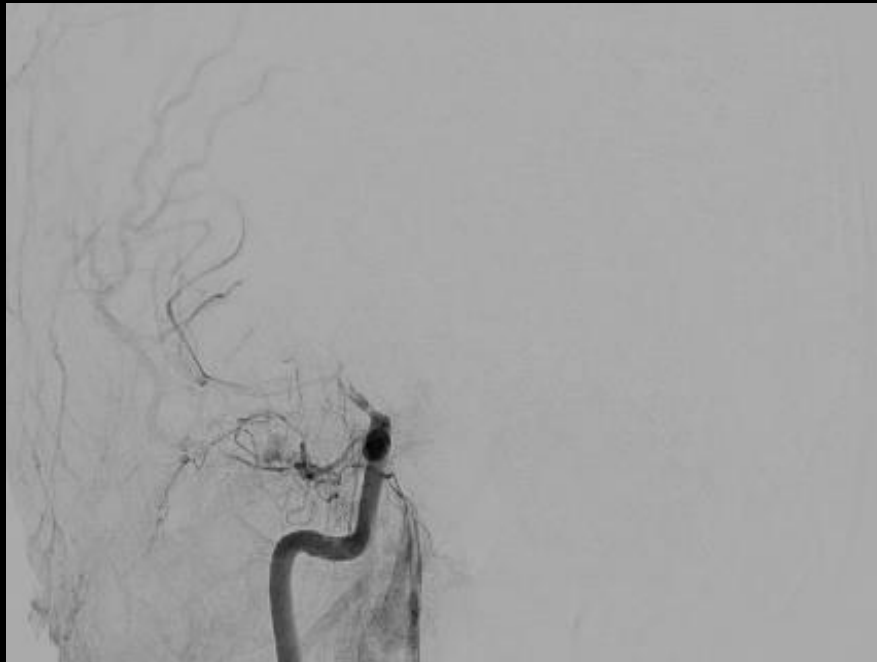
**CTP OLEA**



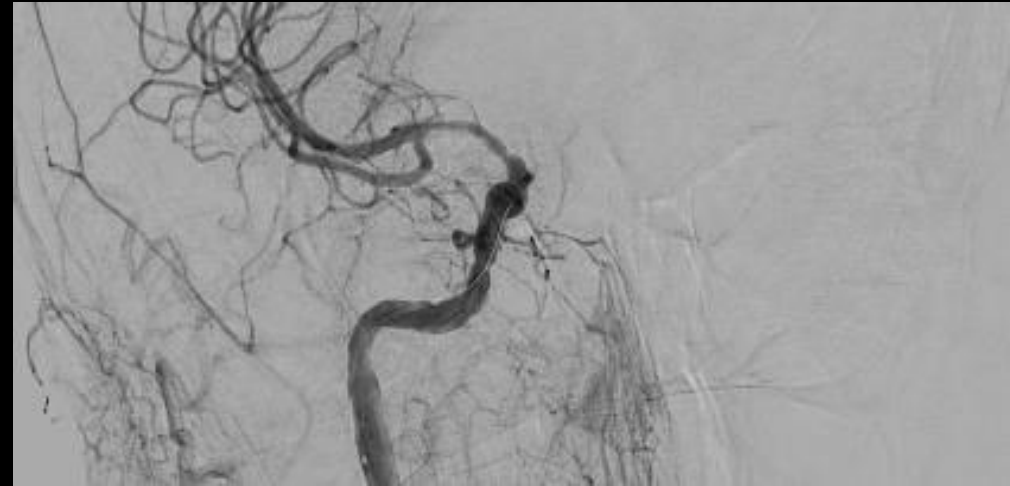
### Treatment

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

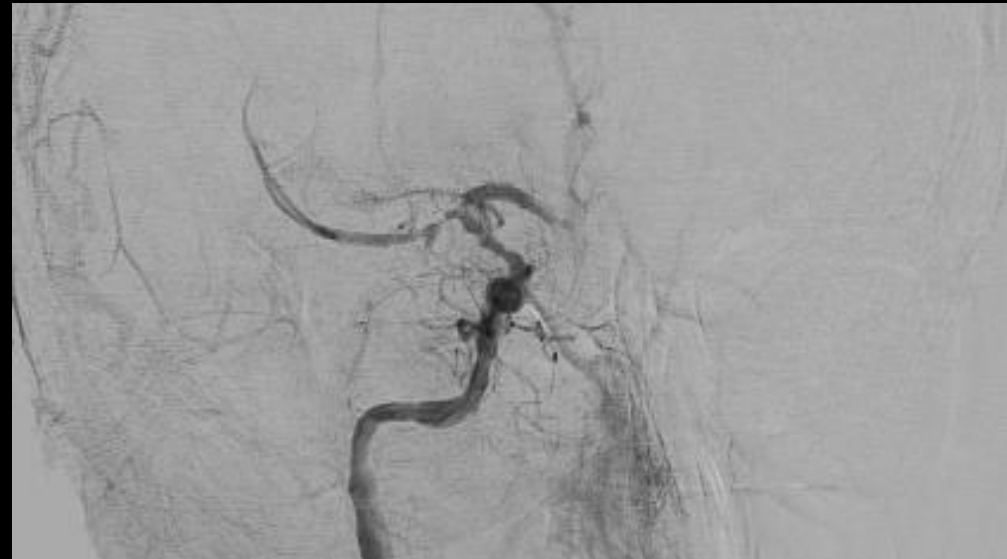
**Initial  
run**



**Device in place**



**After  
MT**



# Now what...?

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

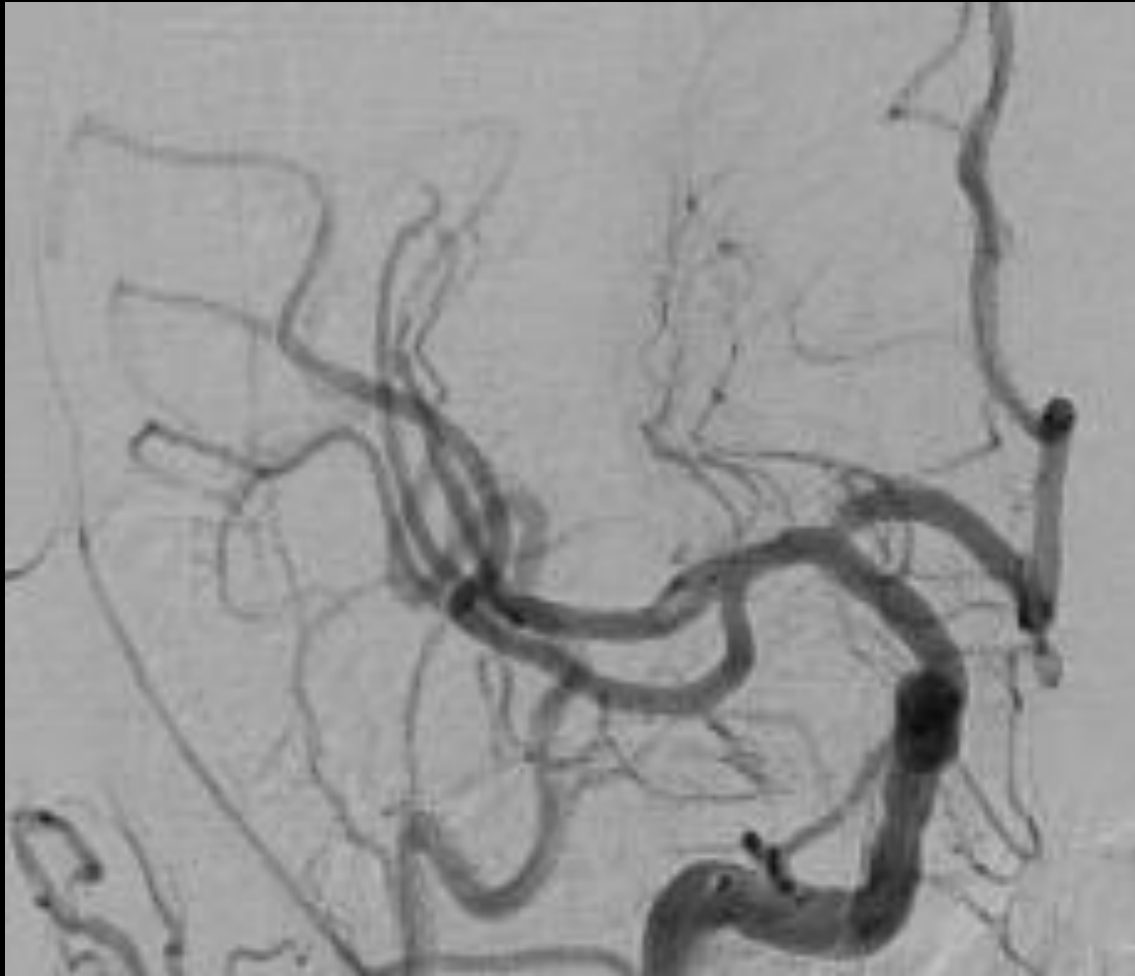
...use *your knowledge, experience*  
and *training*

# Circumstantial evidence

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

# Intracranial dissection!

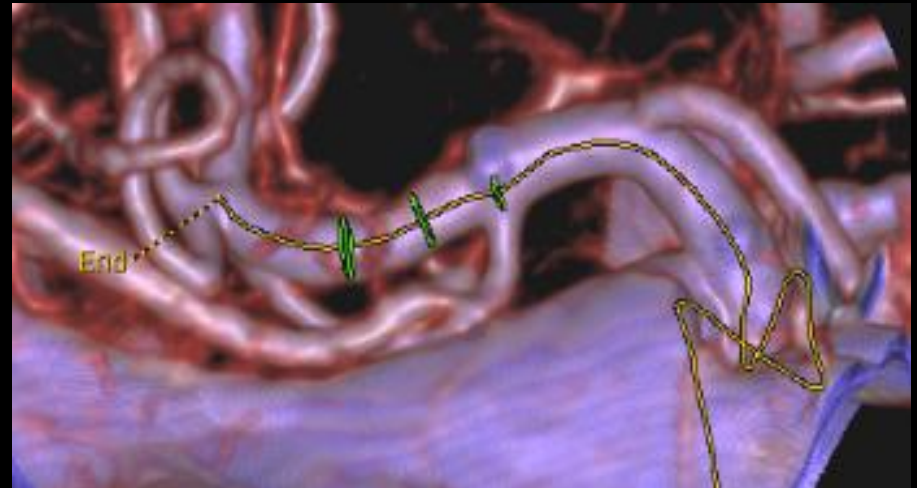
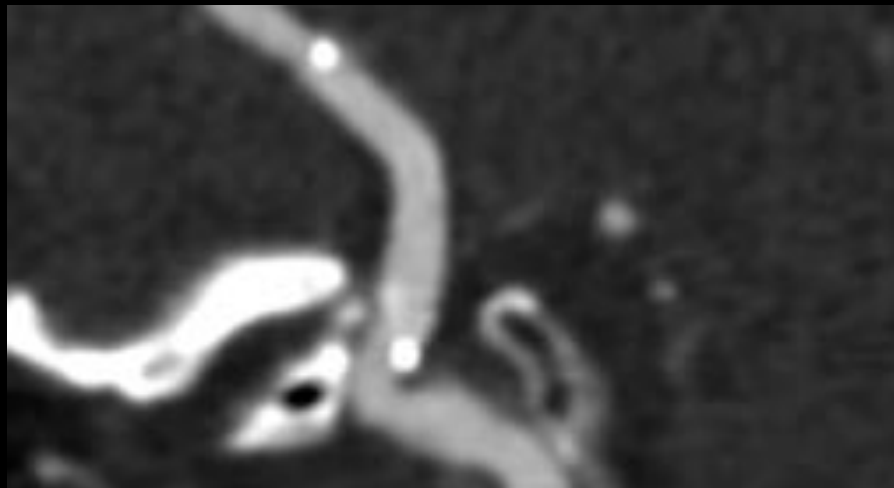
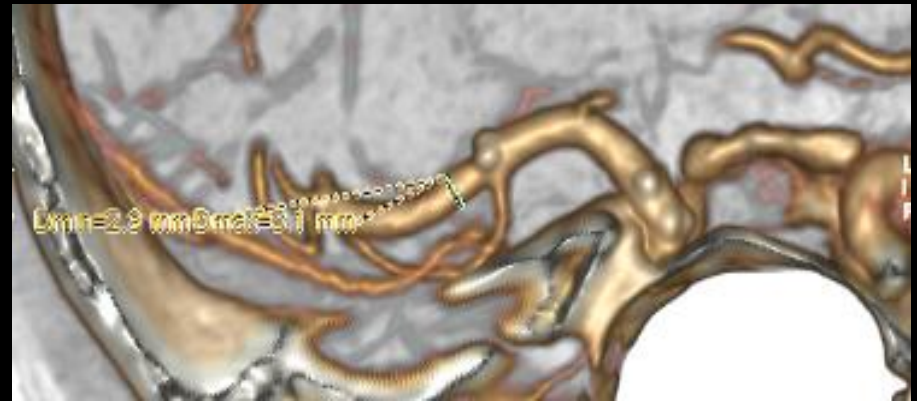
**Final run after  
stenting**



**24 h CT**



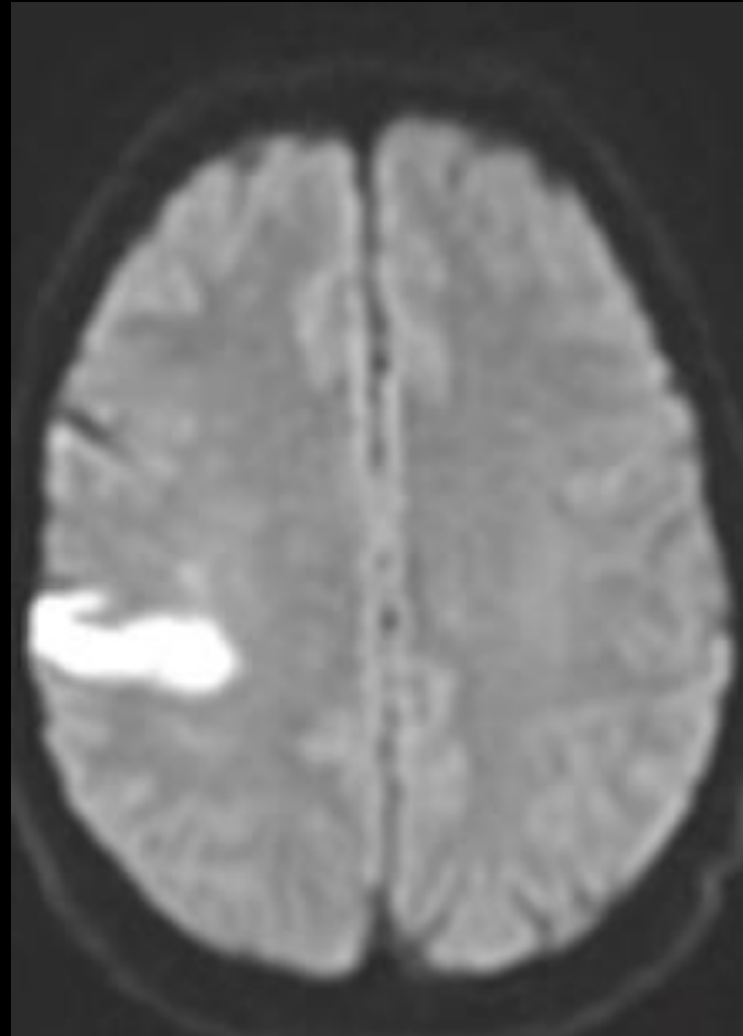
# 48 h CTA



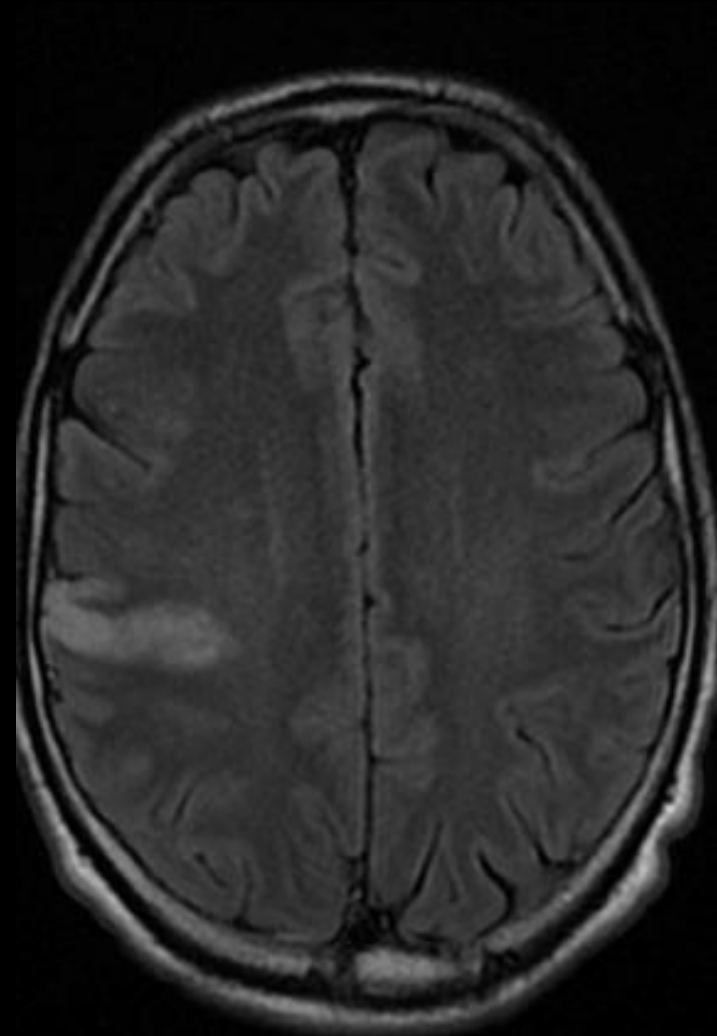


# 48 h MR

DWI



T2 FLAIR



- Home after 72h
- NIHSS = 1

# Important!

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

and,

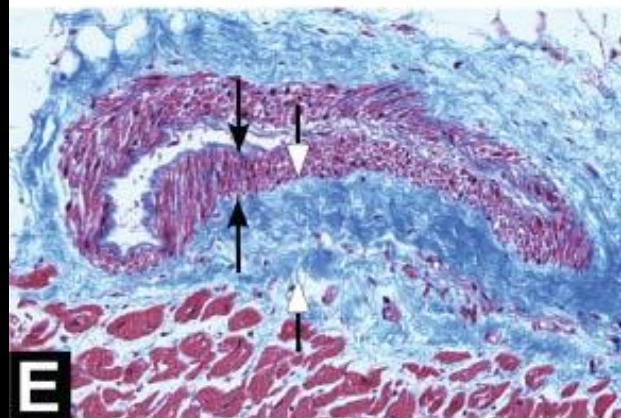
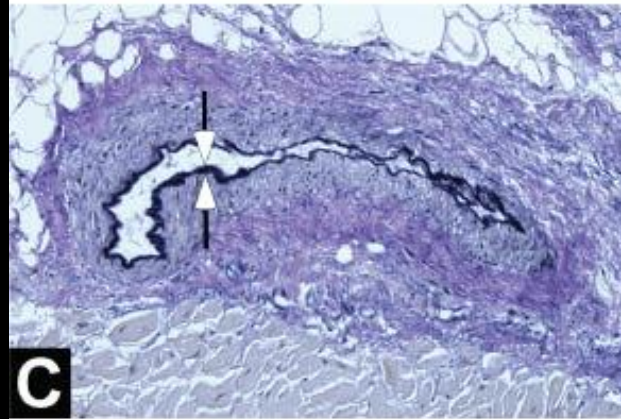
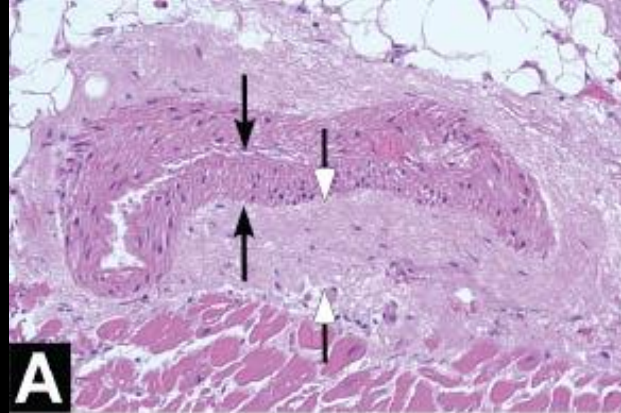
...you need to *care* for the patients properly

# Knowledge

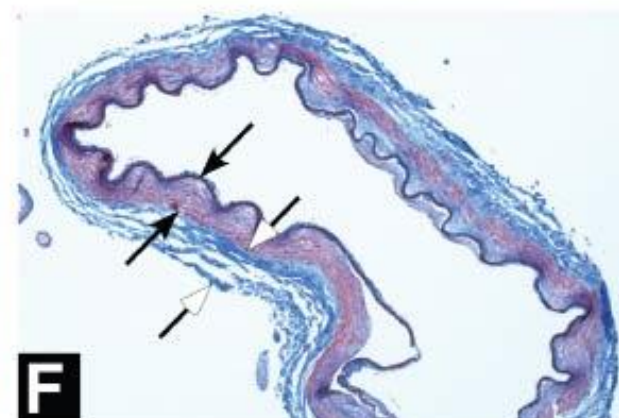
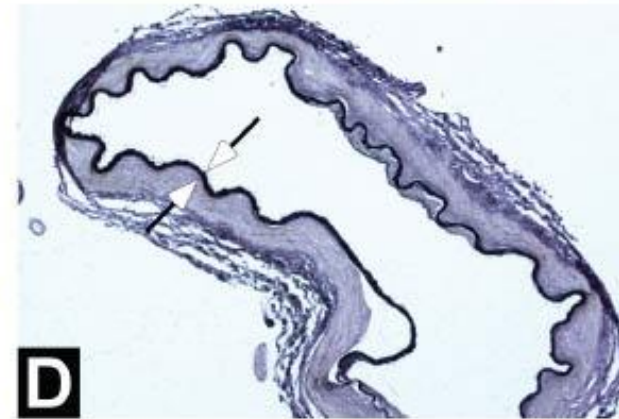
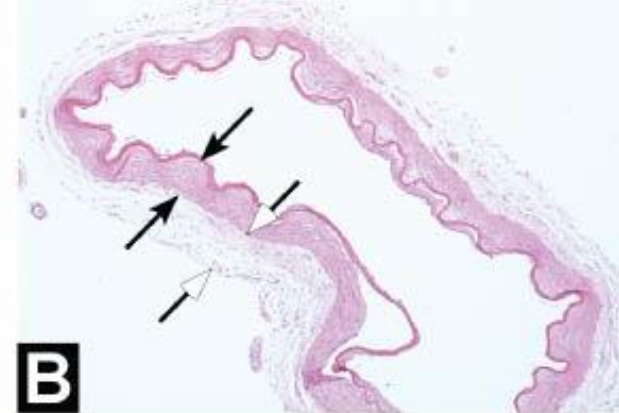
- About the brain as an organ
- About the intracranial circulation
- About the specifics of intracranial arteries

# LAD

Muscularis  
Adventitia



# MCA



# 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