

Case Presentation: Pediatric Ruptured PCA Aneurysm

Ricardo A Hanel, MD PhD

Director, Stroke and Cerebrovascular Center

Endowed Chair, Stroke and CV Surgery

Cerebrovascular Fellowship Director

Lyerly Neurosurgery, Baptist Neurological Institute

Jacksonville, FL

rhanel@lyerlyneuro.com



Jacksonville, FL



Acknowledgements

- Eric Sauvageau, MD
- Nima Aghaebrahim, MD
- J Entwistle, DO - CV Fellow
- Pedro Aguilar Salinas, MD - Research Fellow
- Lyerly Baptist NeuroCCS Team and Stroke Neurology Team

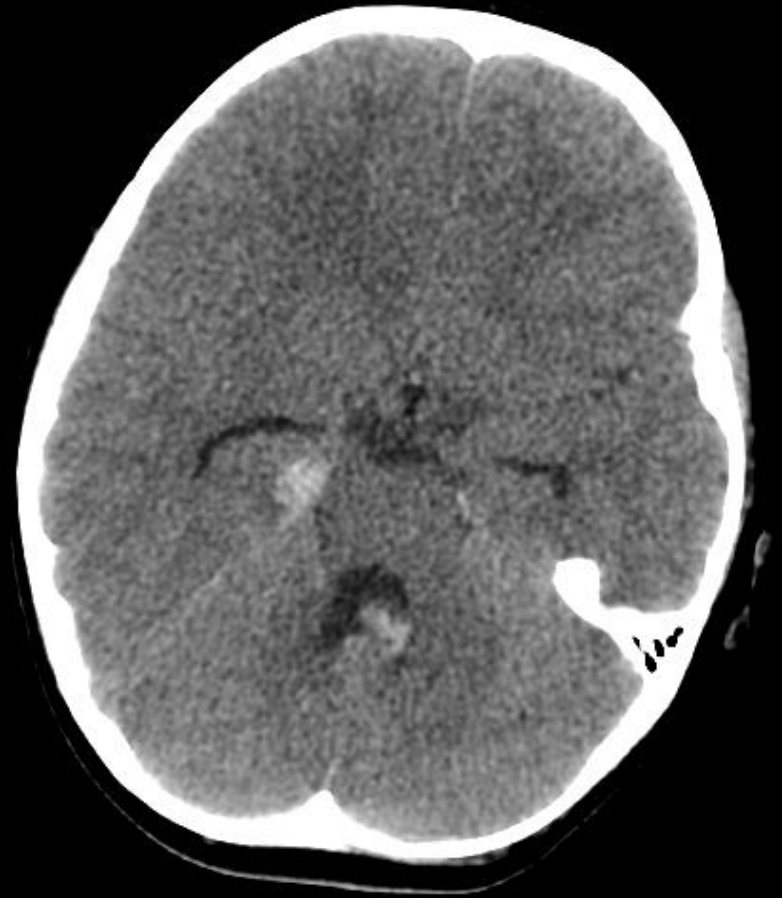


Disclosures

- Consultant:
 - Medtronic
 - Pipeline Proctor
 - PI Premier Pipeline
 - Stryker
 - PI SCENT Trial
 - Codman
- Educational Grant
 - Microvention
- Investor: InNeuroCo
- I do clip and coil, bypass and FD



- 4 yo
- Sudden onset HA 36h before
- N/V
- LOC deterioration
- Bradichardia



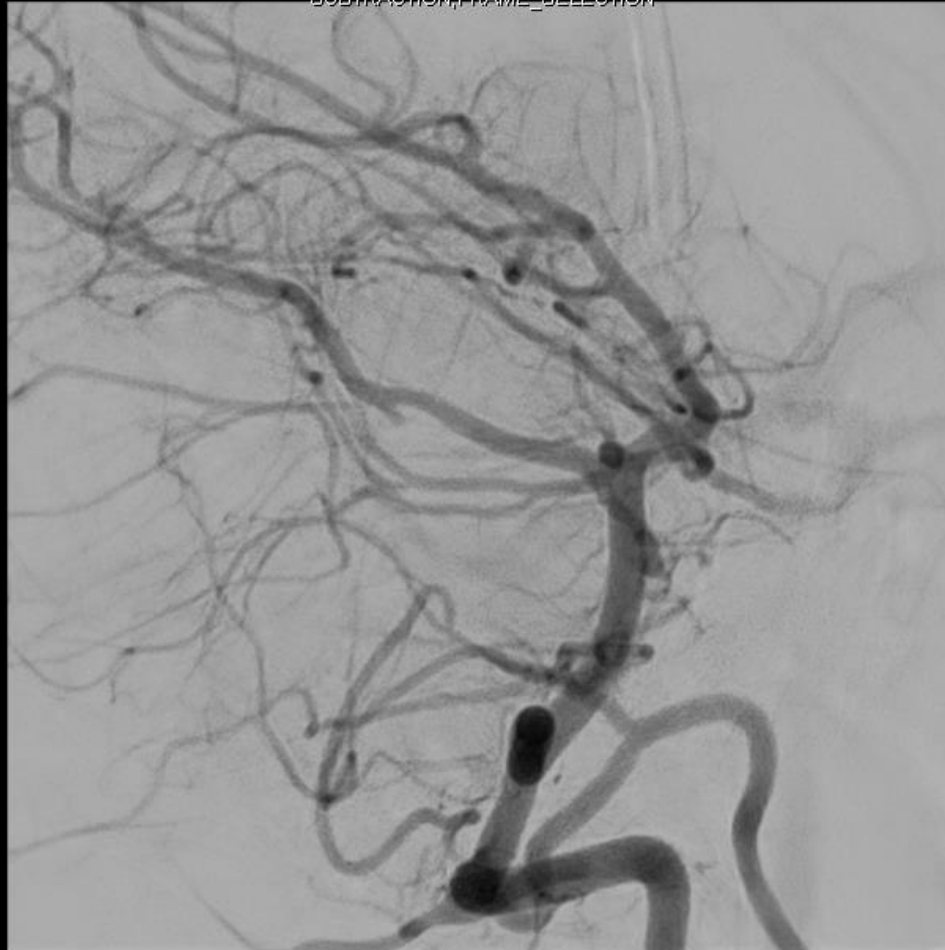
- Intubated at arrival
- EVD placement







SUBTRACTION;FRAME_SELECTION



SUBTRACTION

RAO 22°
CRAN 2°
FD 6.0 inch



0:00
1:17
6:57:18

20
18-8



SUBTRACTION

RAO 106°
CAUD 0°
FD 8.0 inch



0:11
1:28
6:57:18

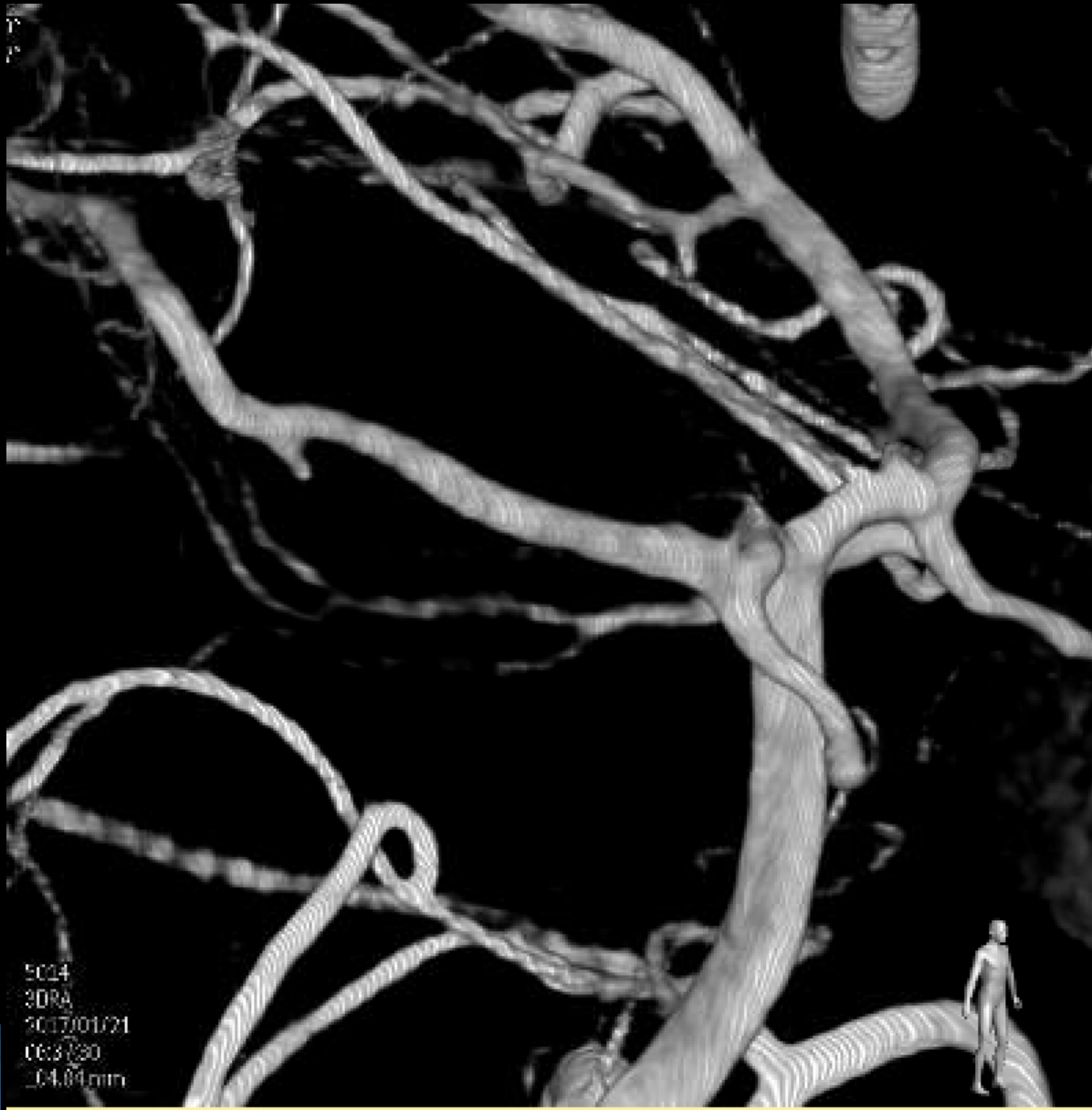
20
18-8





CF 0.0908 mm/pix





5014
3DRA
2017/01/21
06:37:30
_14.84mm



Options

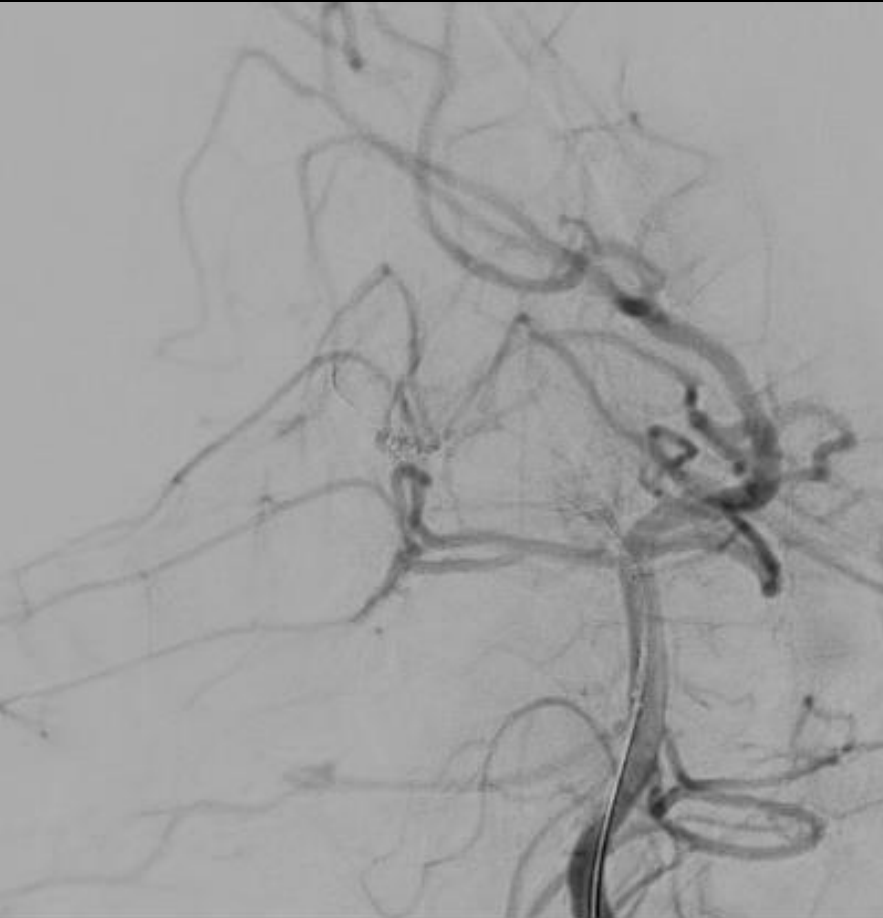
- Craniotomy
 - Clip
 - Clip/Wrapping
 - Parent vessel sacrifice and Bypass
- Endovascular
 - Coiling (balloon or Stent assisted)
 - Flow Diverter
 - Parent vessel sacrifice



- Attempt Balloon assisted coiling
 - 5/6F sheath (OD 5F ID 6F)
 - Neuron L Vert

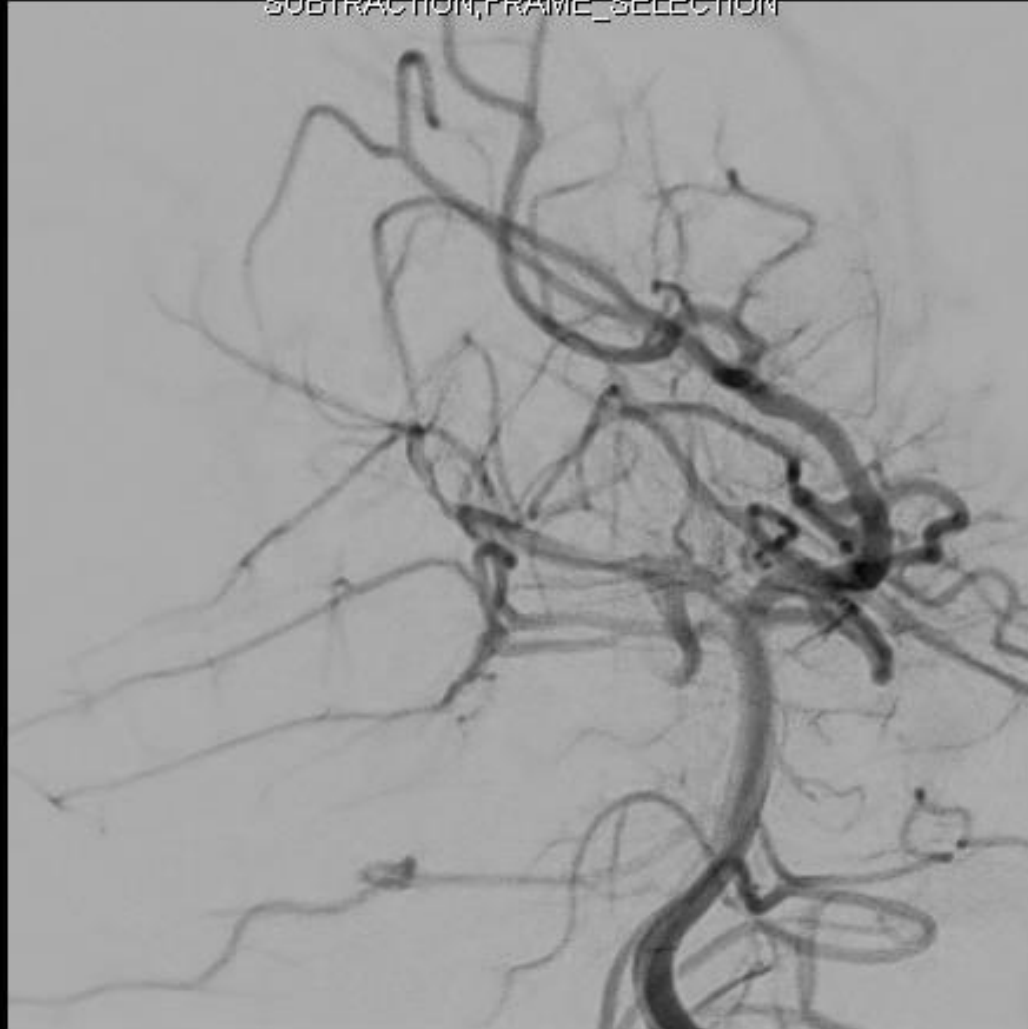


With coil in position...
lost flow into R PCA



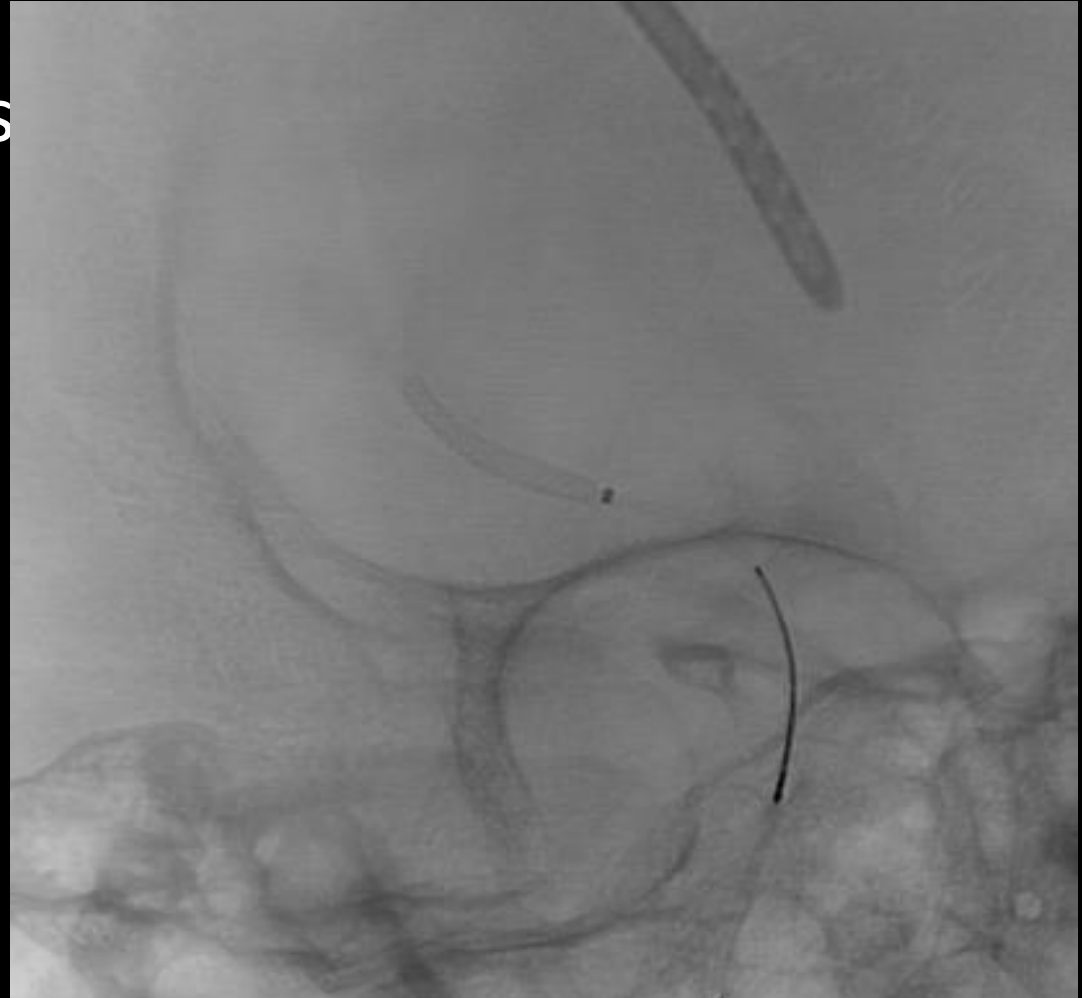
Coil removed – Flow reestablished

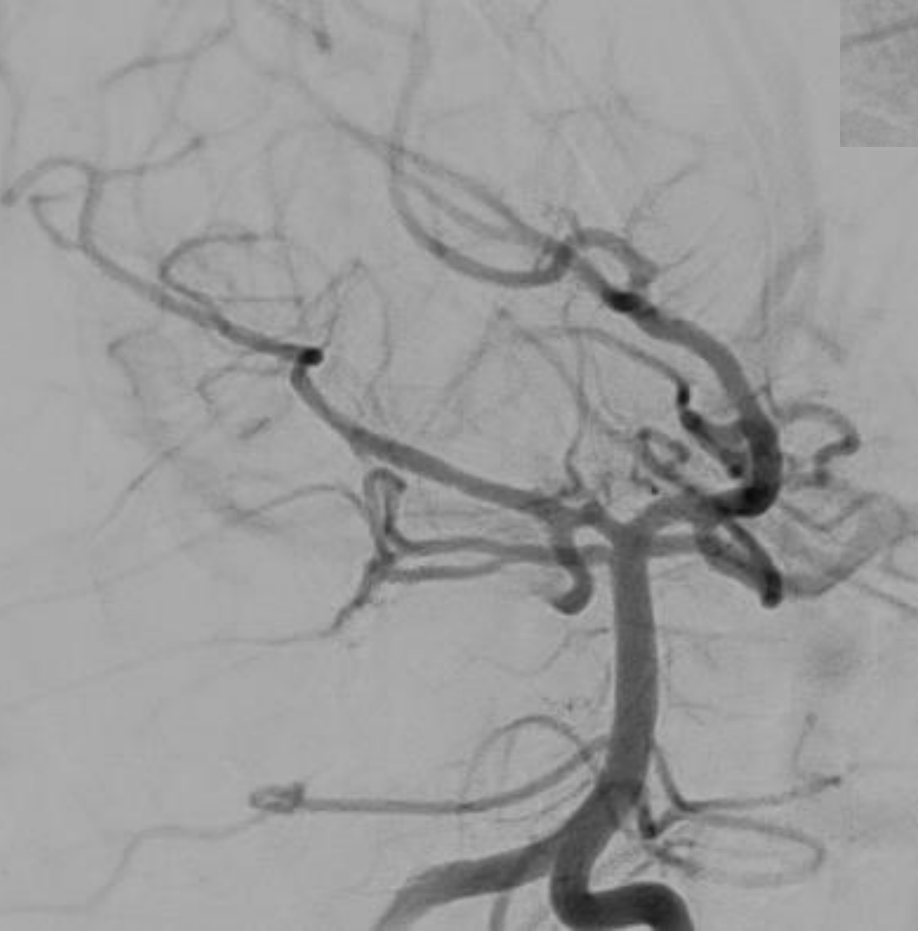
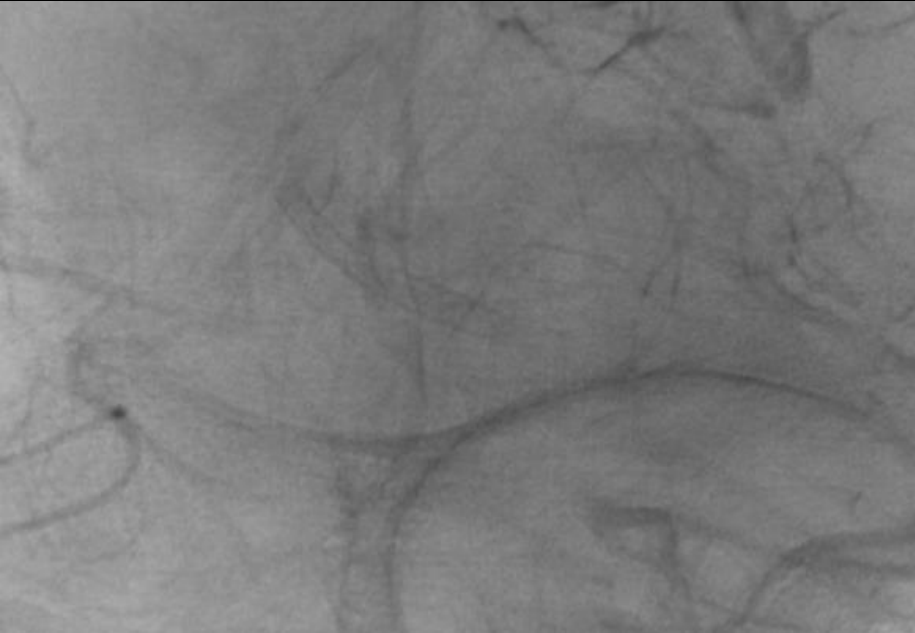
SUBTRACTION,FRAME_SELECTION



Decision made for FD PED 2.5x10mm

- IV Integrillin bolus
 - ½ cardiac dose
- Loaded on plavix and aspirin after procedure



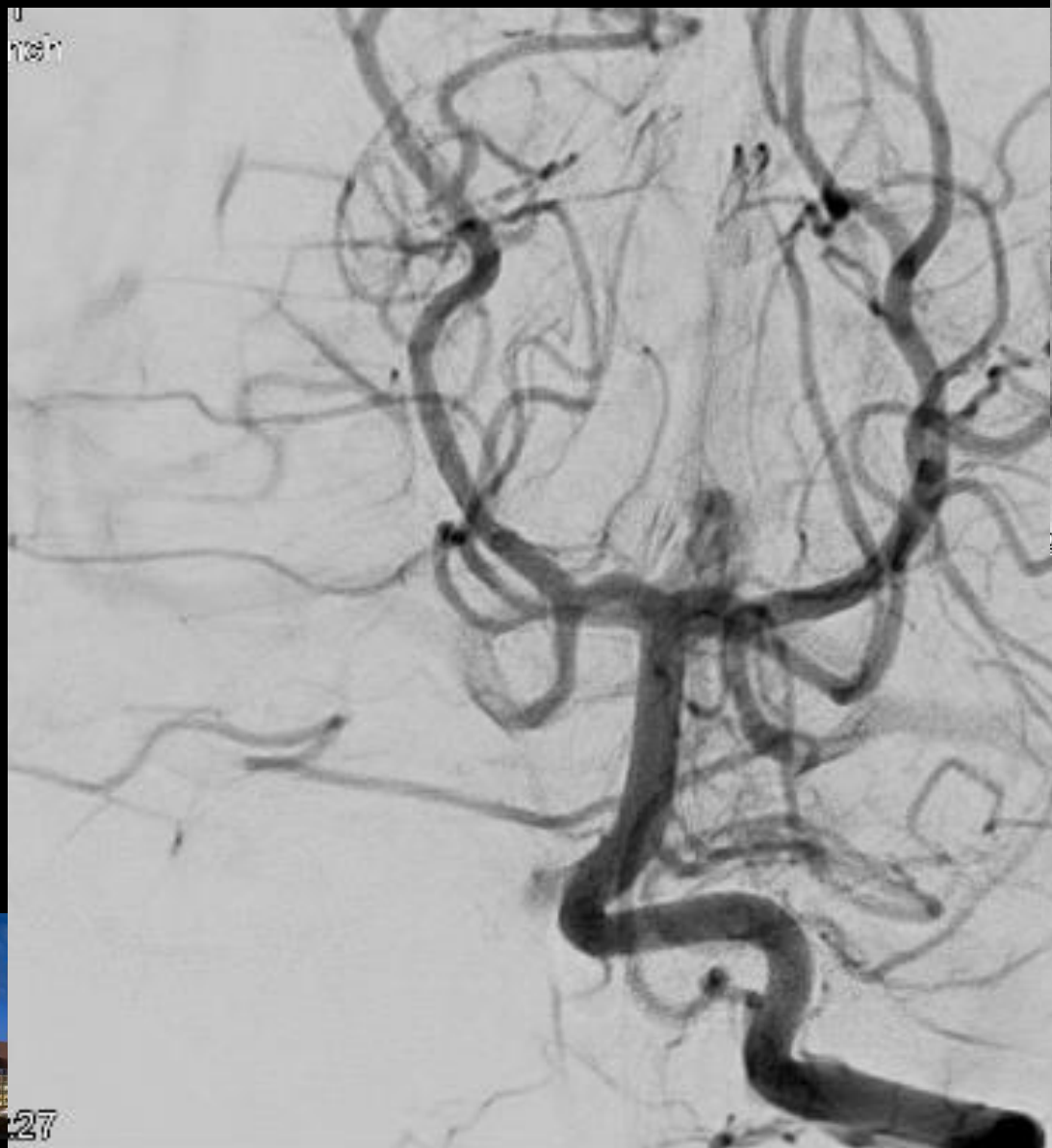


SUBTRACTION;FRAME_SELECTION



3-month FU Angio Neuro Intact





UDO[®]
7.0 Inch

0:11
1:78
12/19/27

78

78
42:27



Off plavix
Continue baby aspirin

