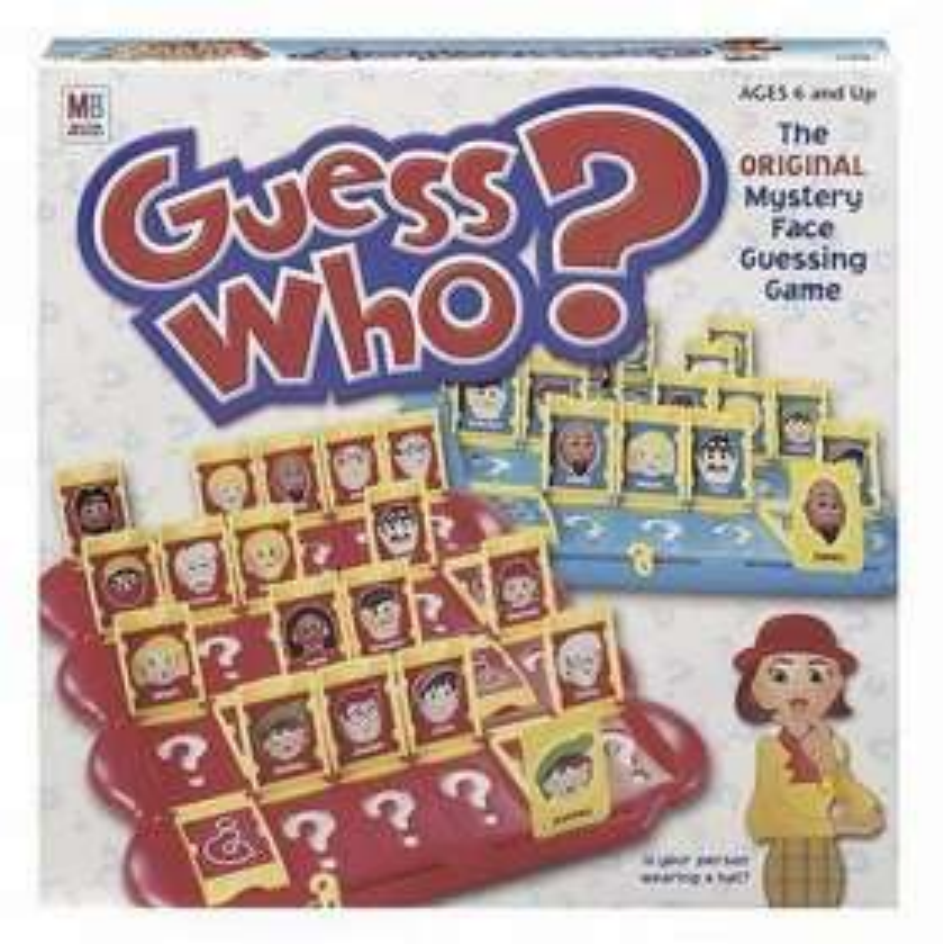
Neuroimaging Pitfalls Guess What Bled?

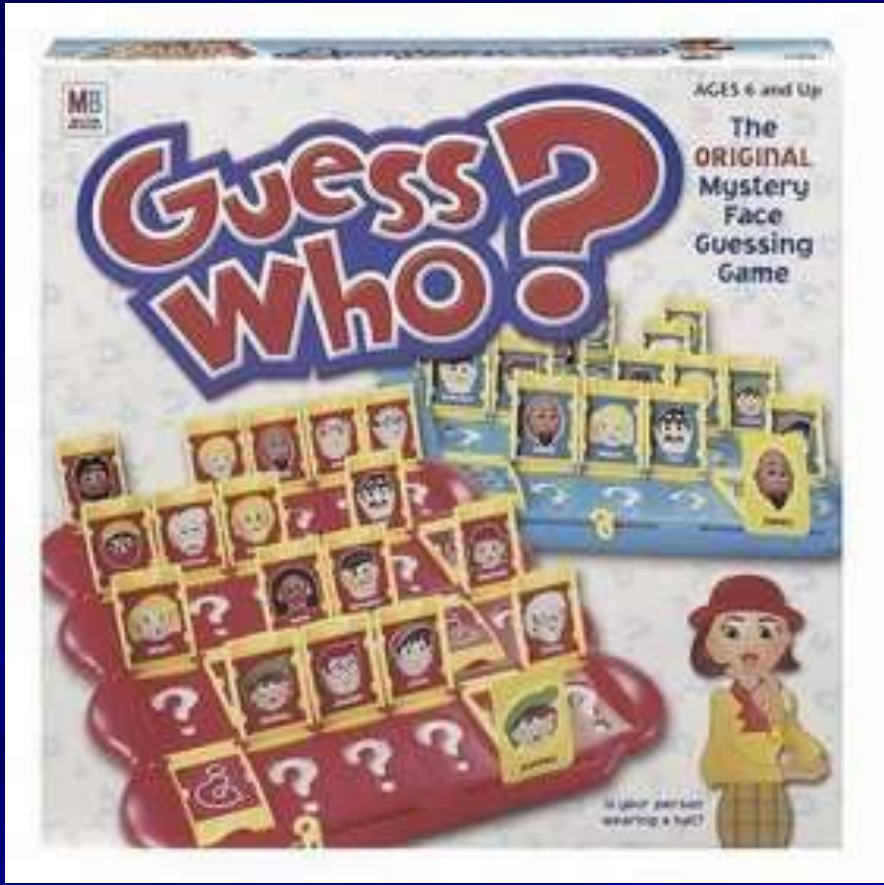
Sudipta Roychowdhury, M.D.

Clinical Professor of Radiology, Neurosurgery & Neurology
Director of Diagnostic and Interventional Neuroradiology
Rutgers-Robert Wood Johnson Medical School
University Radiology Group

Neuroimaging Pitfalls

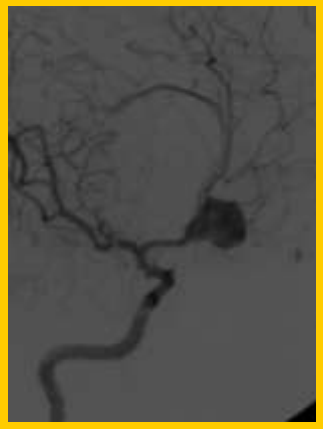


Neuroimaging Pitfalls



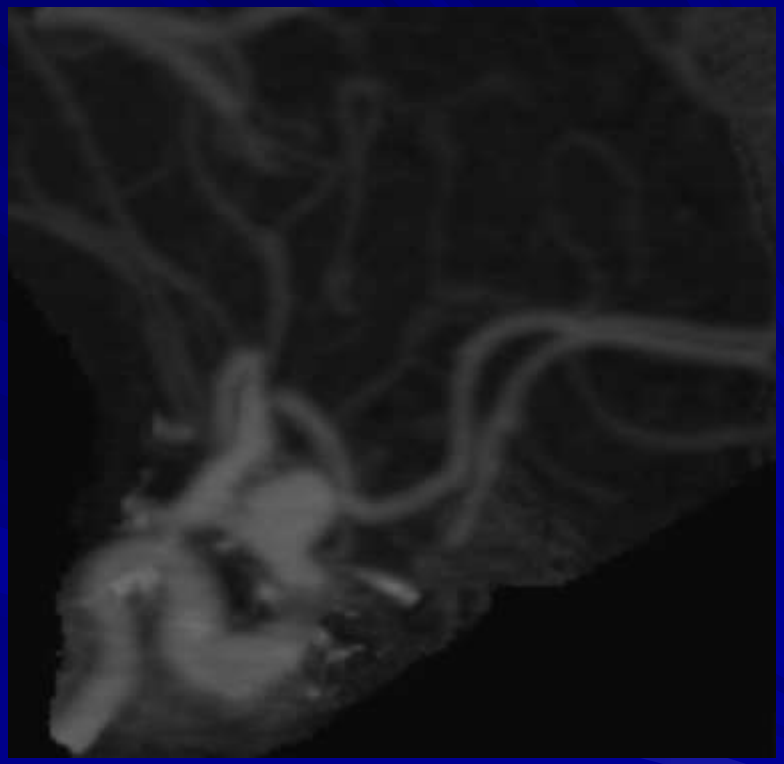
Neuroimaging Pitfalls

Guess
What Bled ?



Guess What Bled ?

Guess What Bled ?



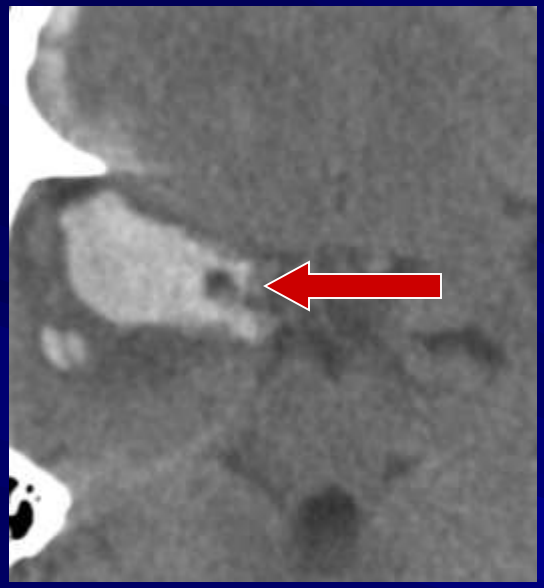
Rt ICA

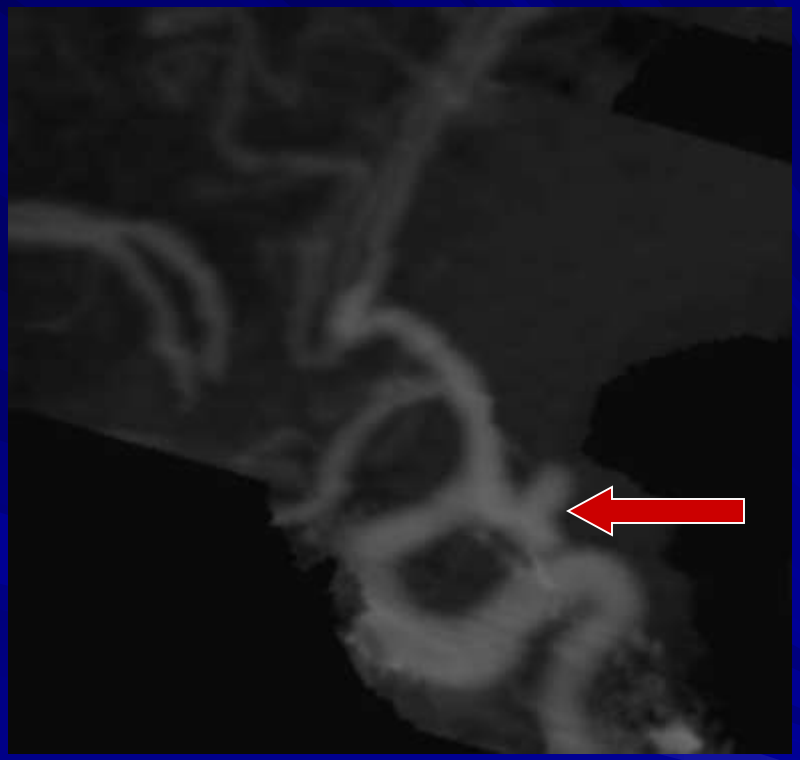
Lt ICA

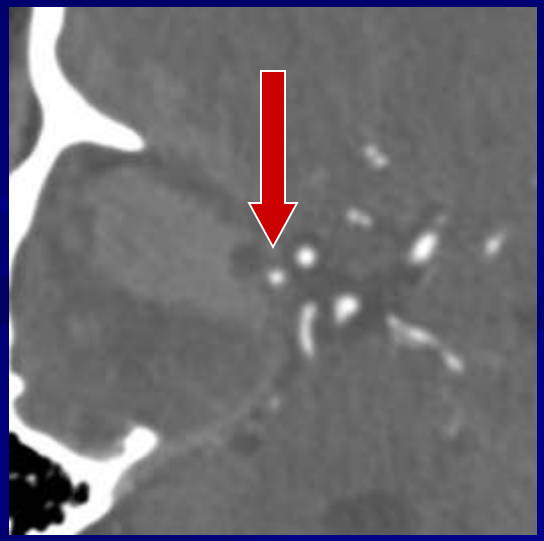
Guess What Bled ?

- 1. Right Pcomm aneurysm
- 2. Left Ophthalmic aneurysm
- 3. Both aneurysms bled
- 4. Something else bled
- 5. Nothing bled

Guess What Bled ?

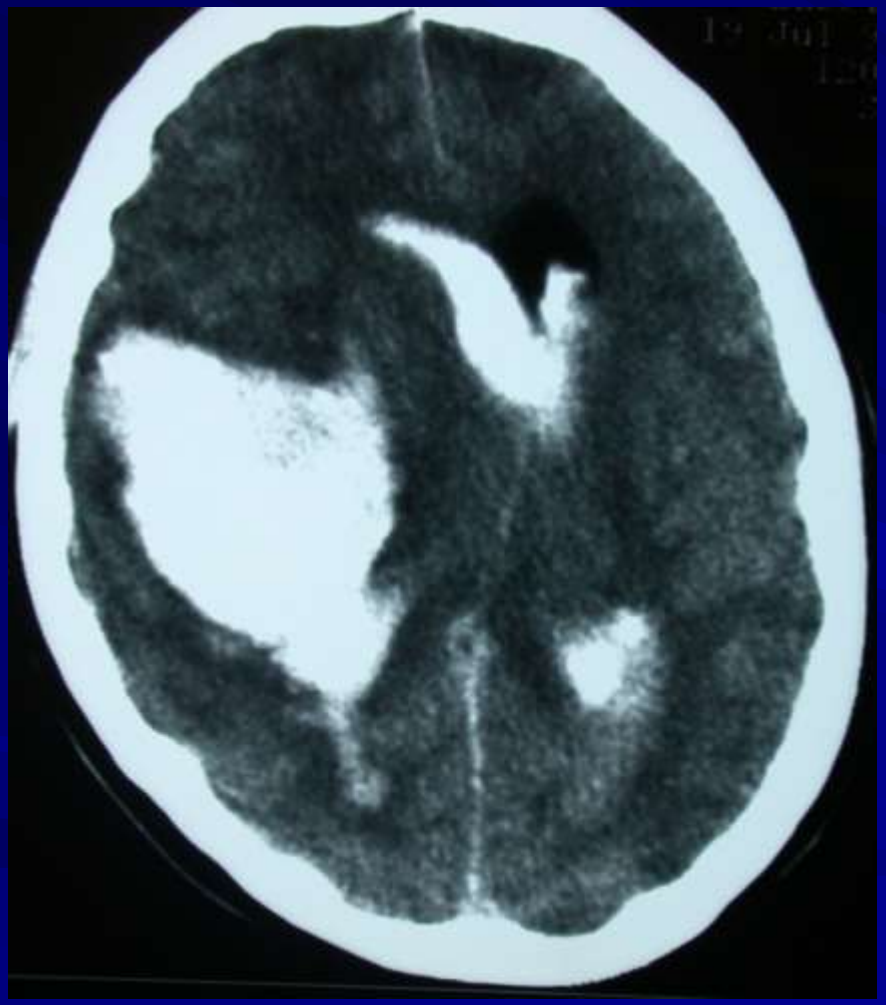


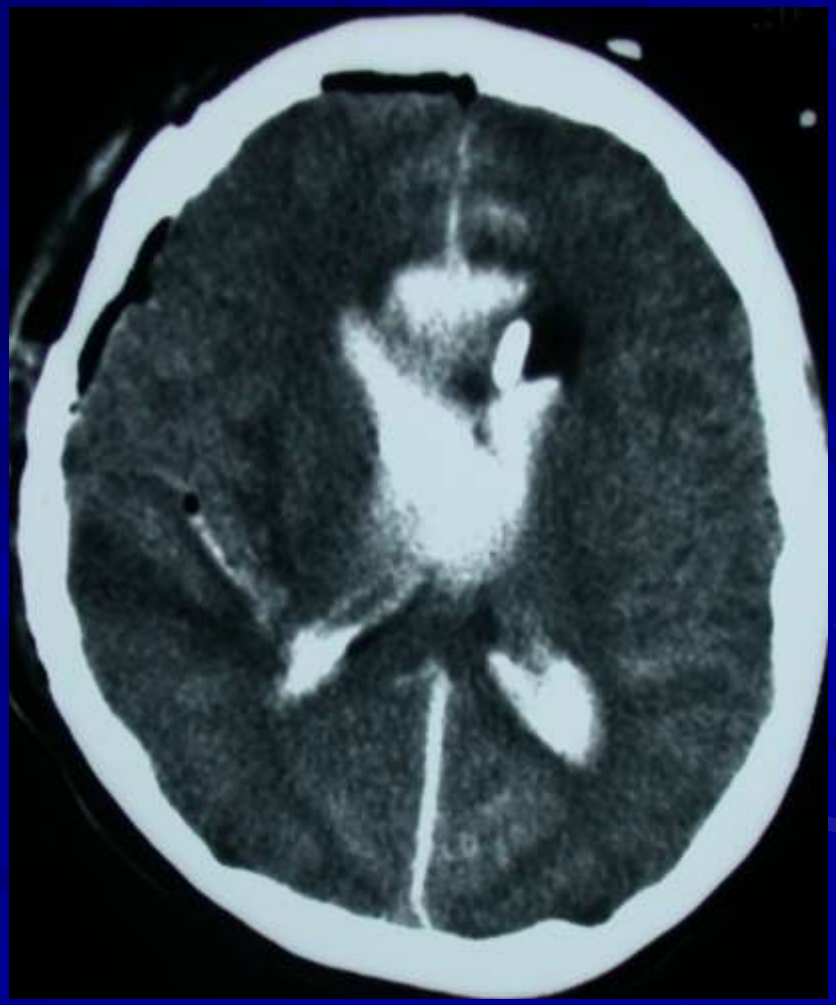




1. Right PCOM aneurysm

Guess What Bled ?



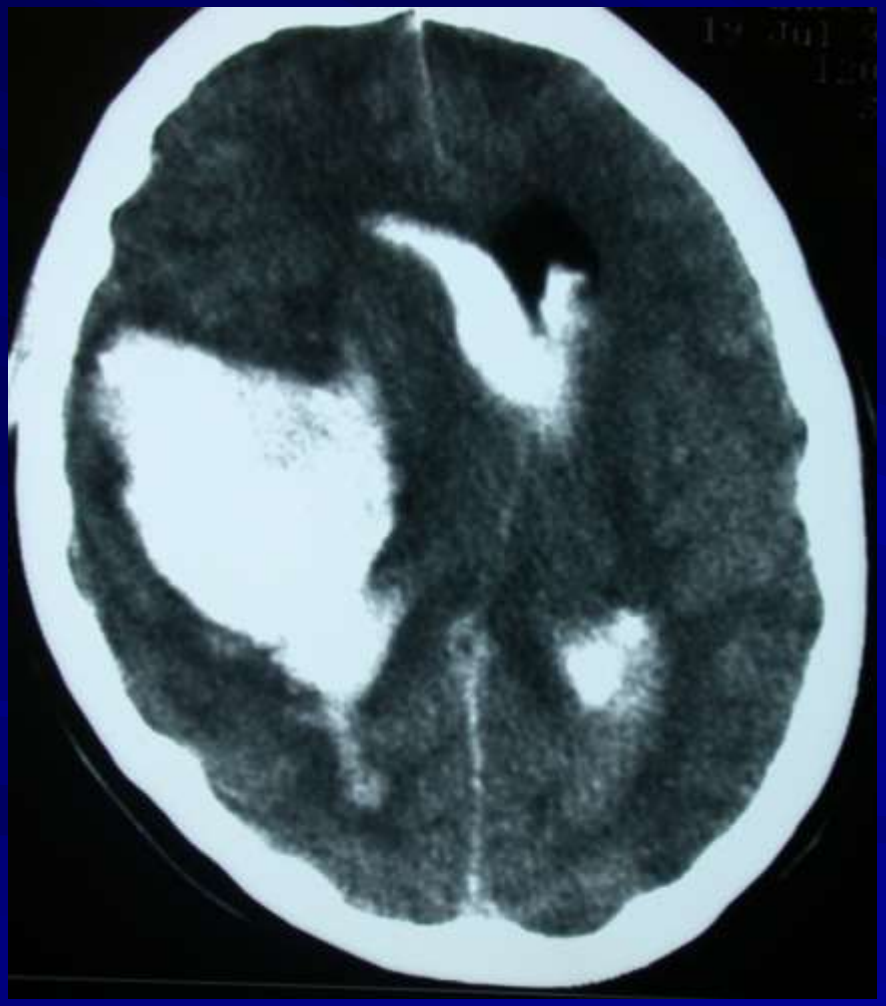


Guess What Bled ?

Guess What Bled ?

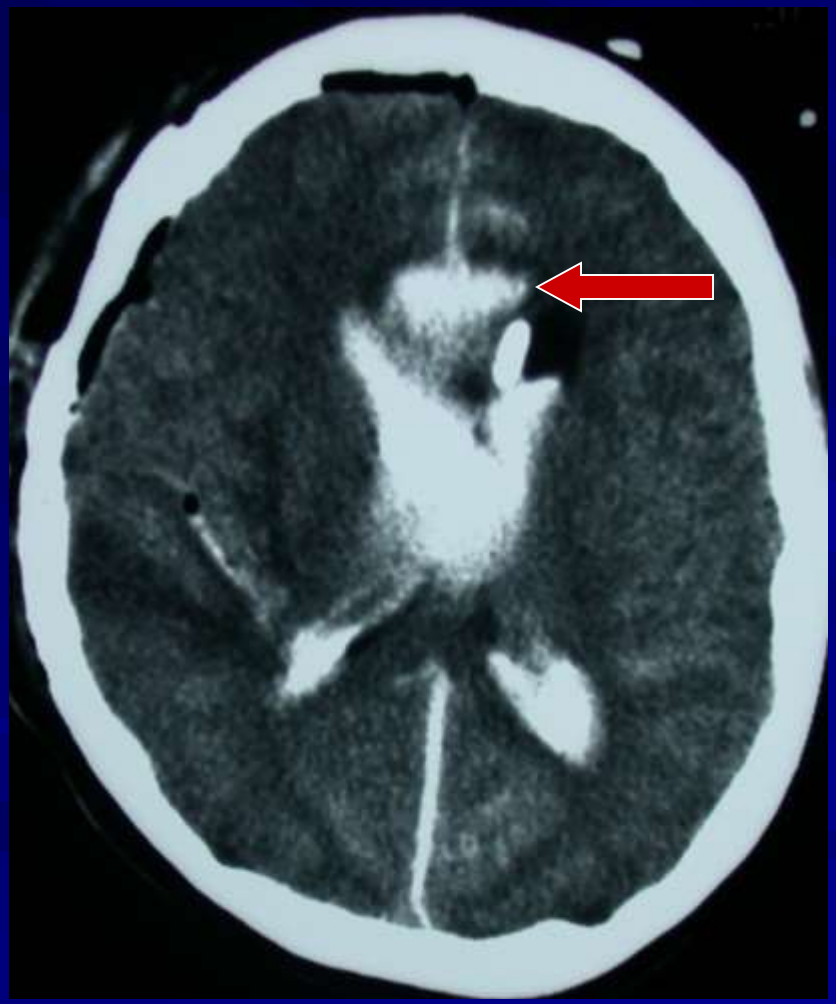
- 1. Right MCA aneurysm
- 2. Right Pericallosal aneurysm
- 3. Both aneurysms bled
- 4. Something else bled
- 5. Nothing bled

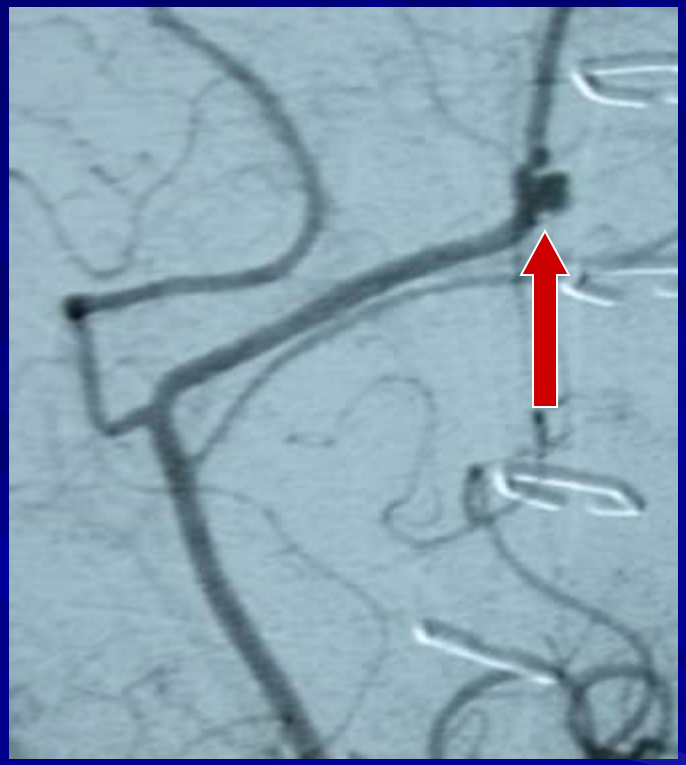
Guess What Bled ?



3. Both aneurysms bled

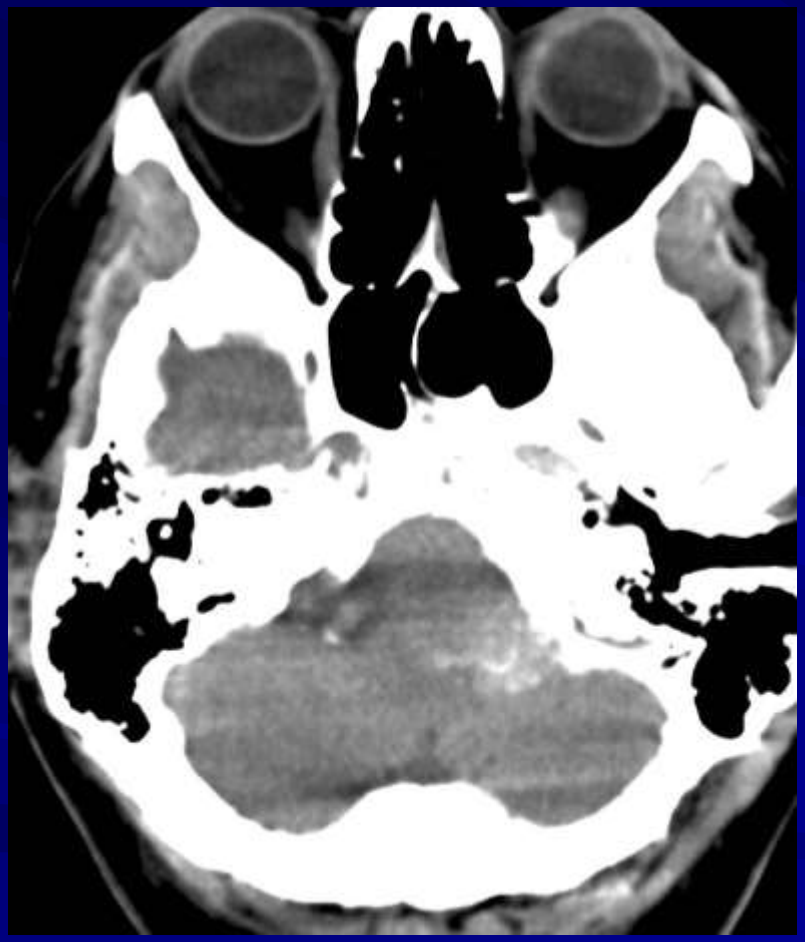
Guess What Bled ?

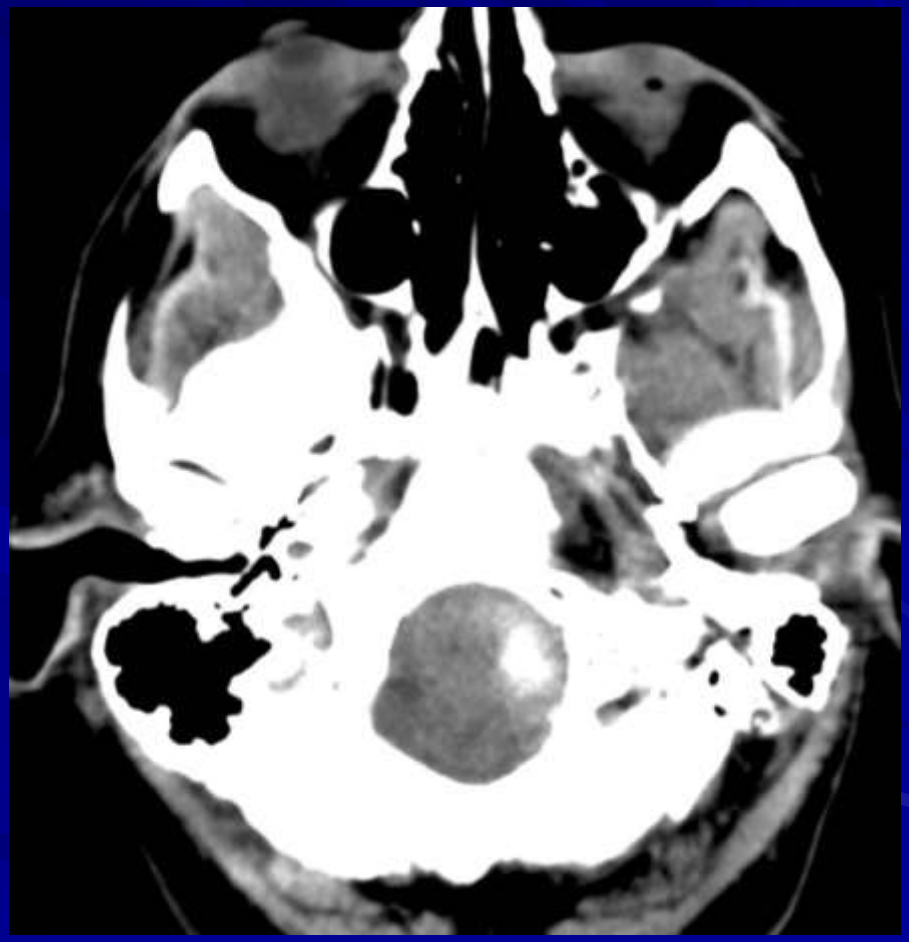




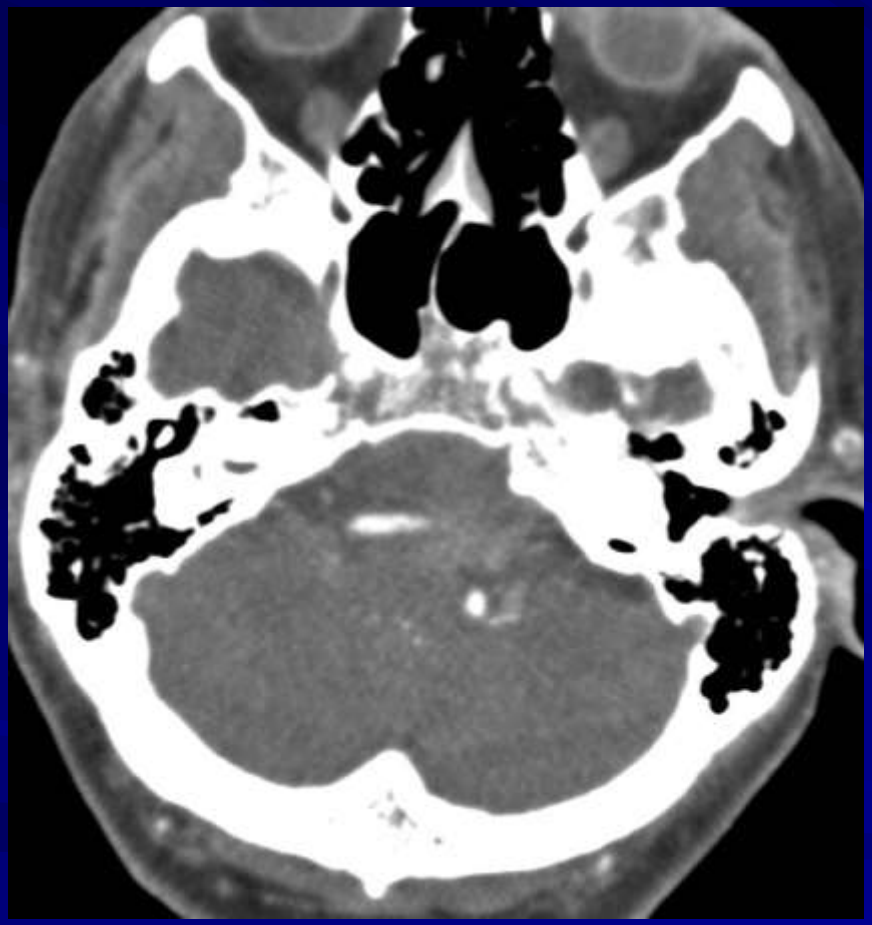
3. Both aneurysms bled

Guess What Bled ?





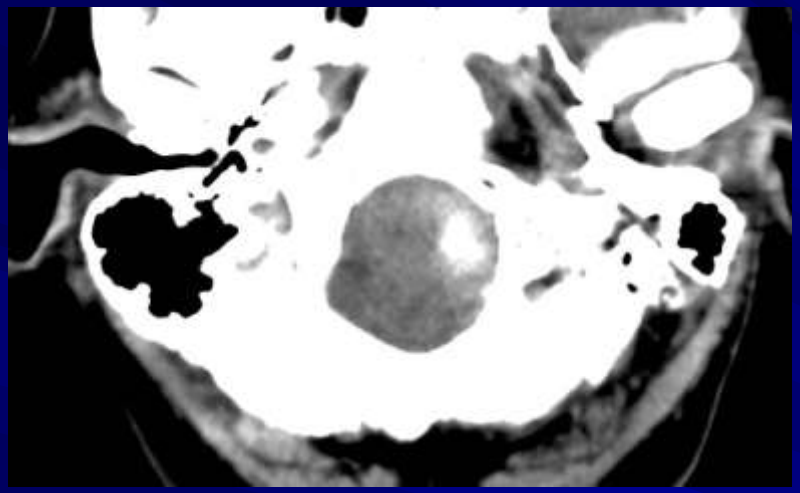
Guess What Bled ?

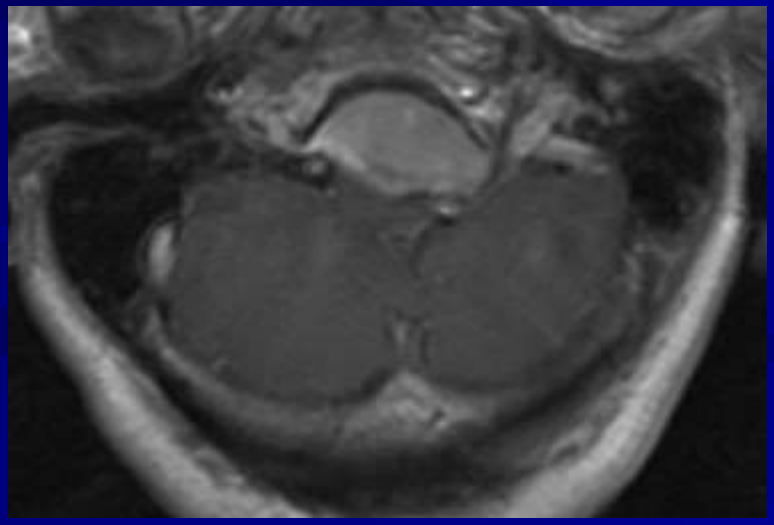


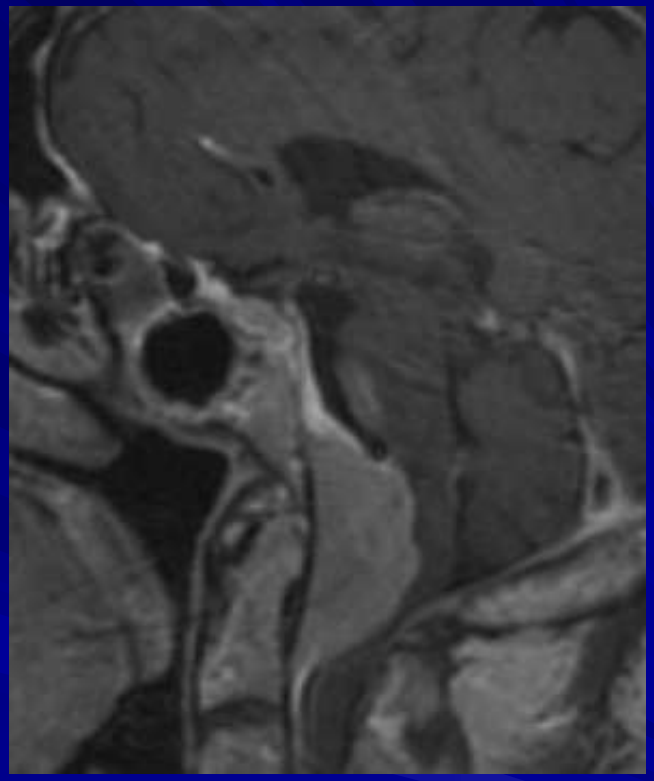
Guess What Bled ?

- 1. Left PICA aneurysm
- 2. Left VA dissection
- 3. Small AVM
- 4. Unknown, do angiogram
- 5. Nothing bled

Guess What Bled ?

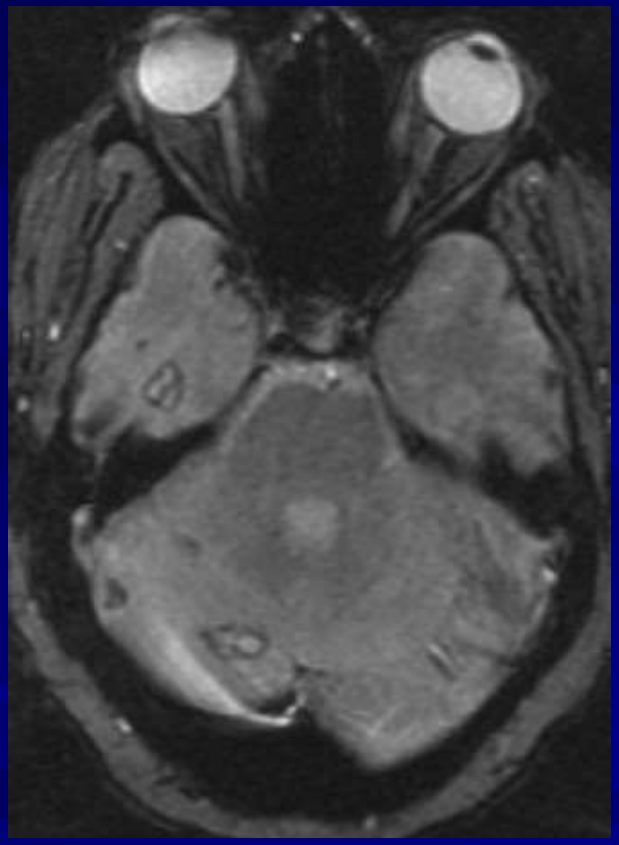


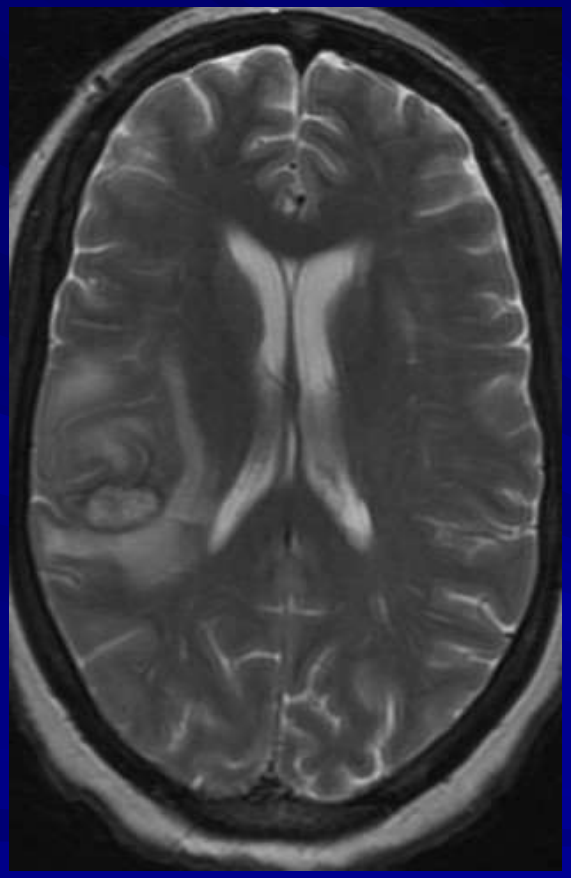


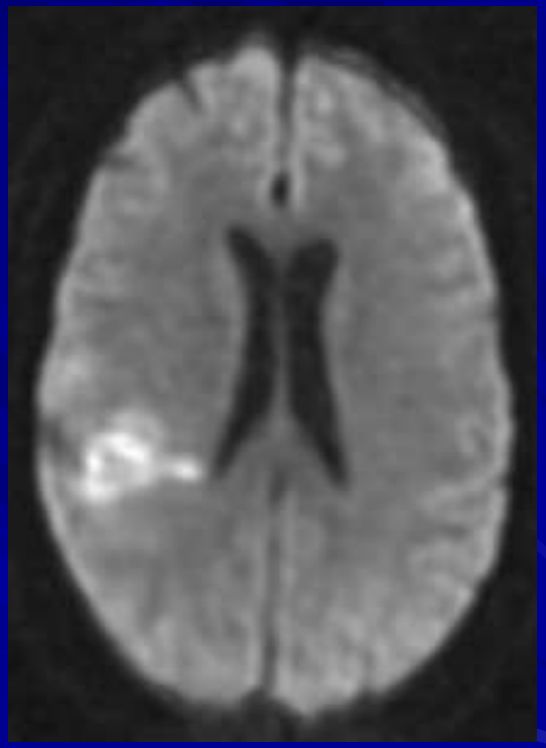


5. Nothing bled (Meningioma)

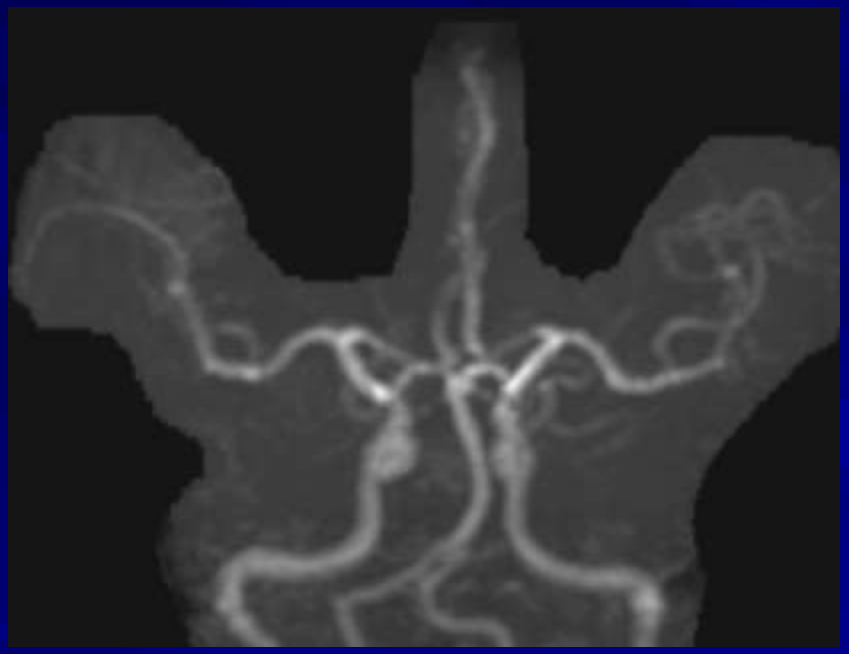
Guess What Bled ?

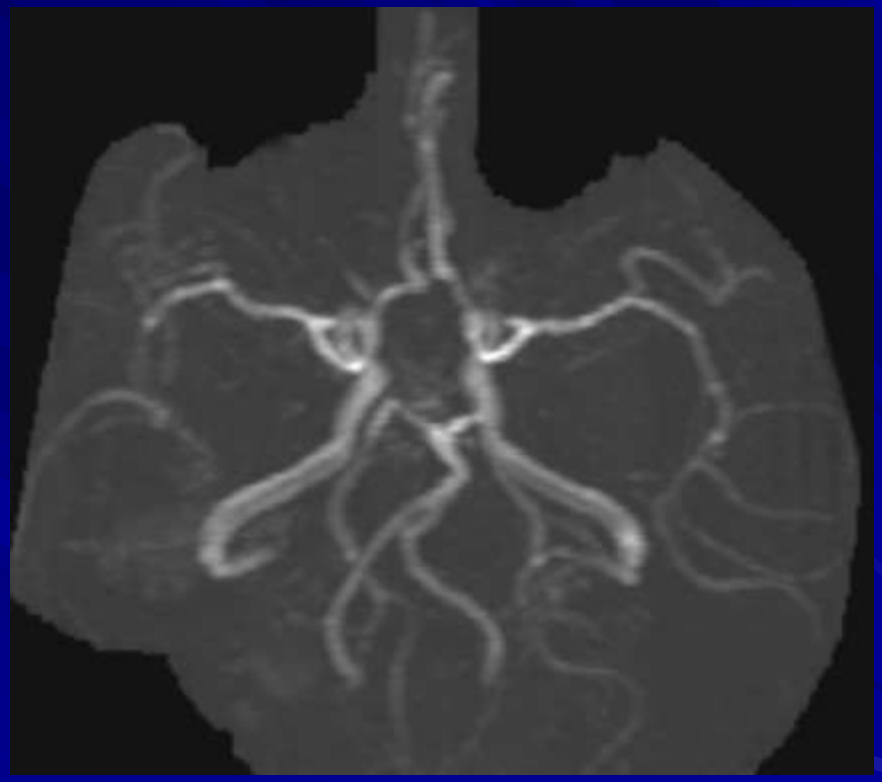






Guess What Bled ?

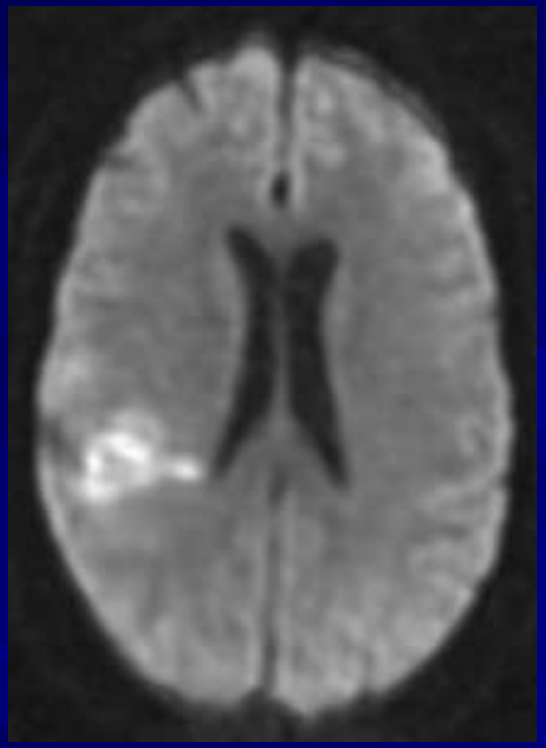


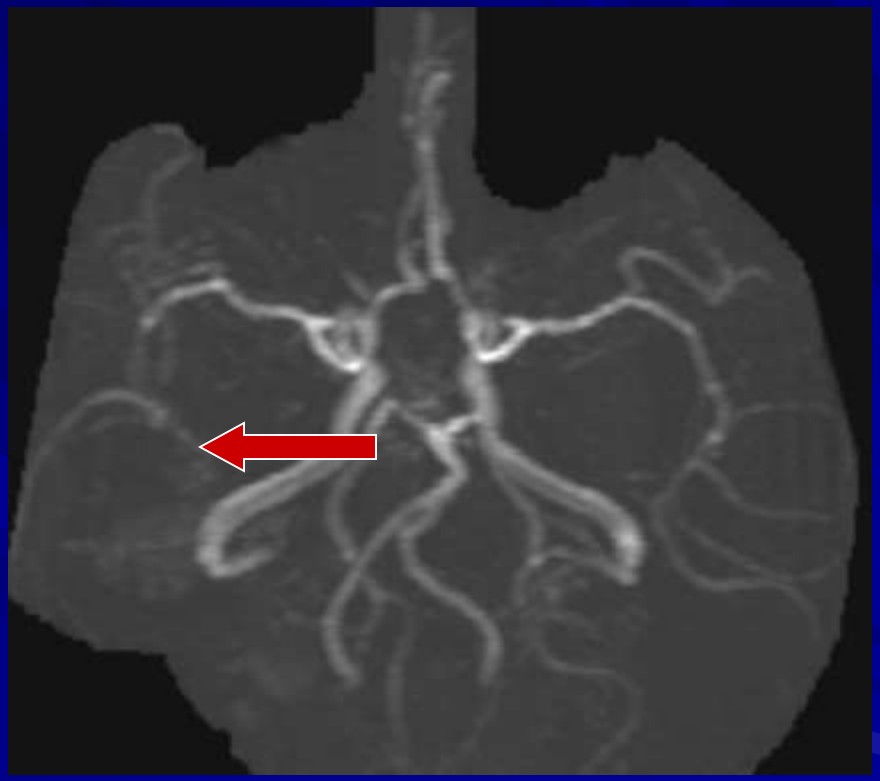


Guess What Bled ?

- 1. Diffuse axonal injury
- 2. Multiple Cavernomas
- 3. Vasculitis
- 4. Amyloid angiopathy
- 5. Nothing bled

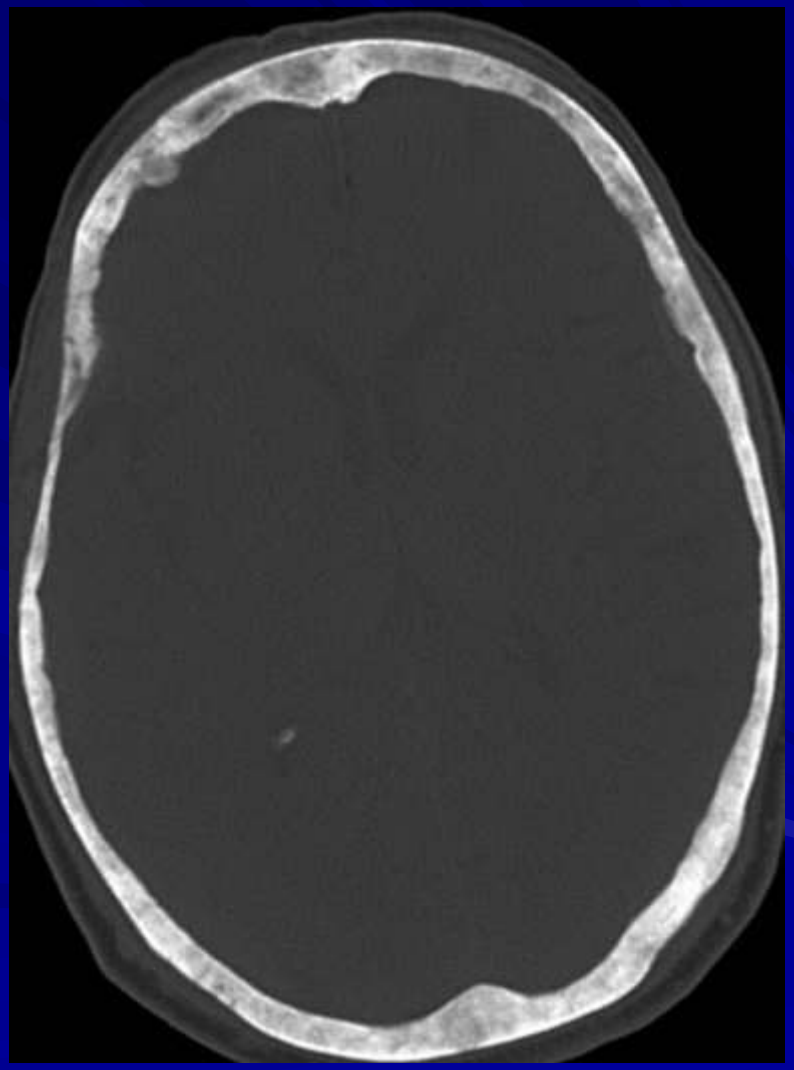
Guess What Bled ?





3. Vasculitis

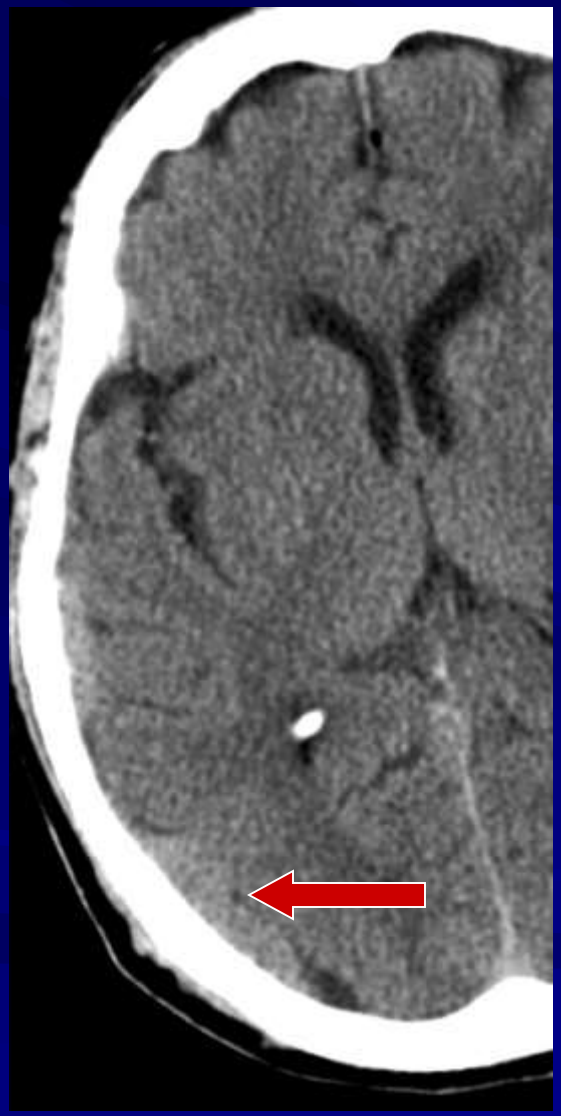
Guess What Bled ?

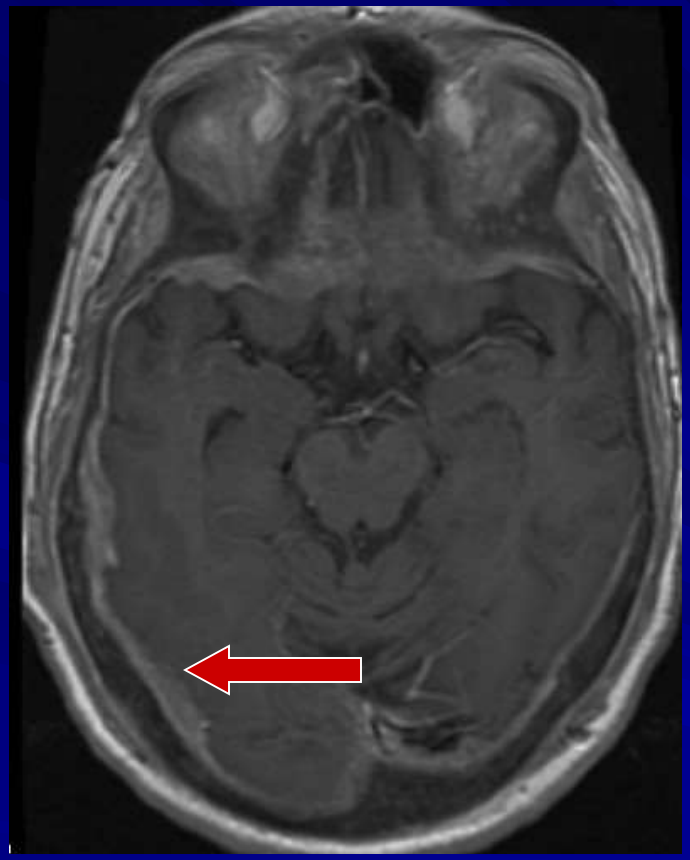


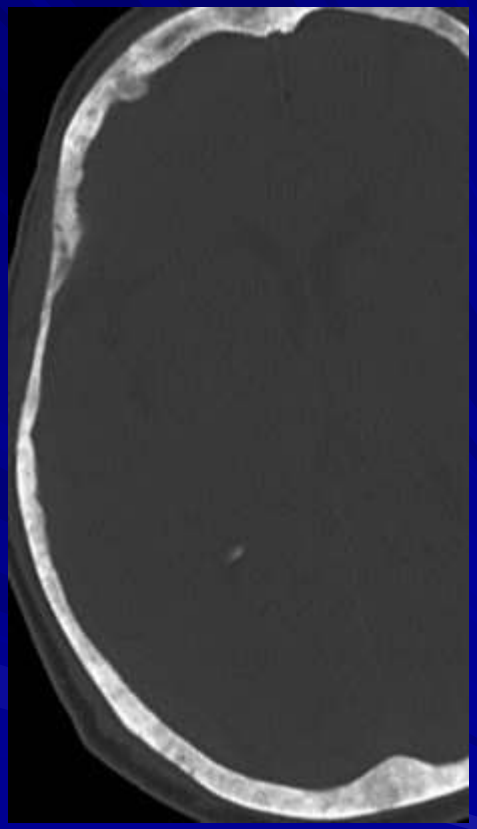
Guess What Bled ?

- 1. Trauma
- 2. Mets
- 3. Aneurysm
- 4. Nothing bled

Guess What Bled ?

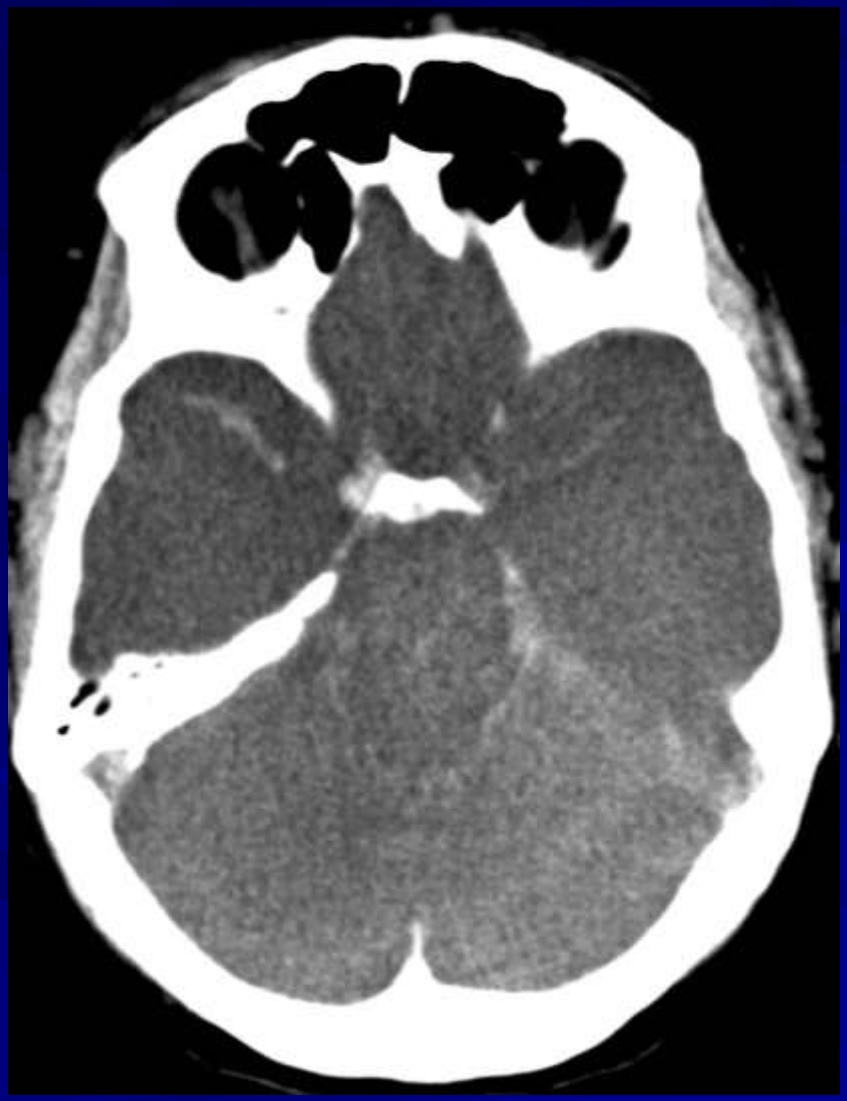


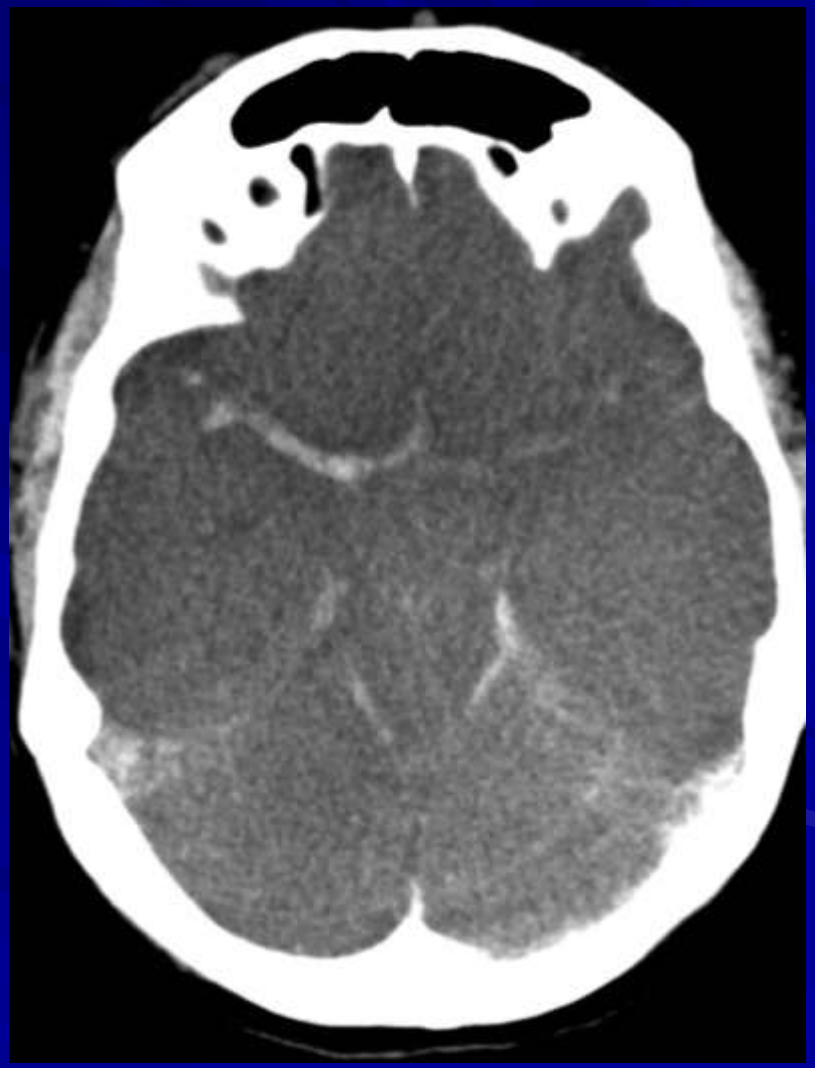




4. Nothing bled
(Dural Mets)

Guess What Bled ?

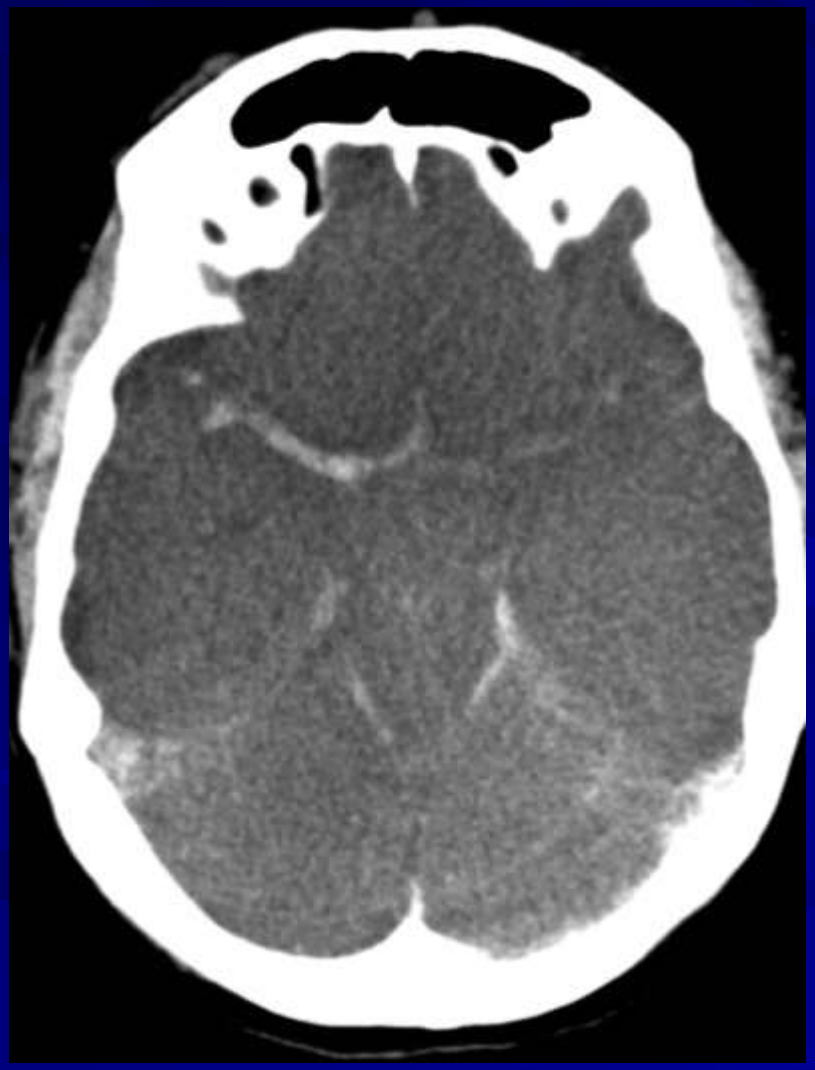


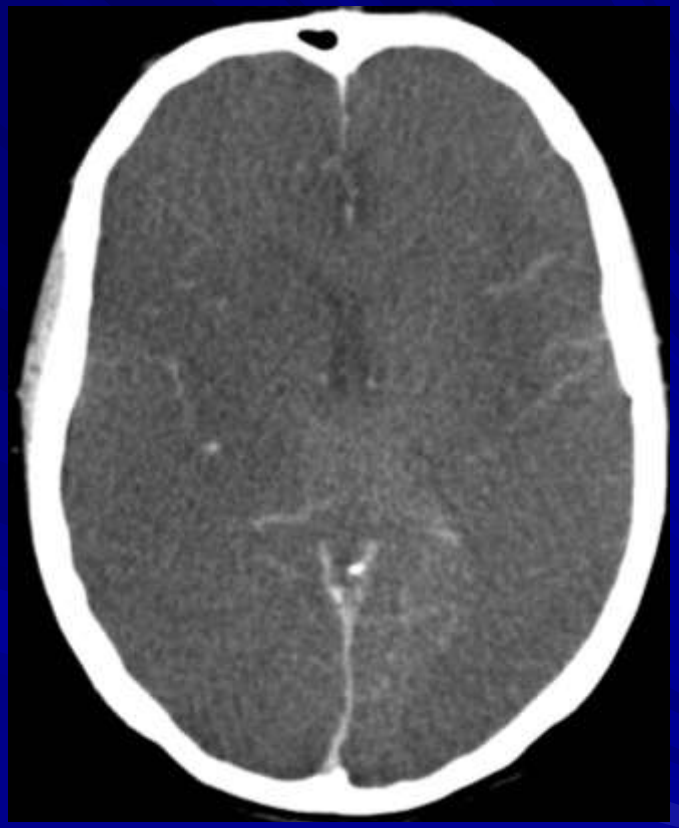


Guess What Bled ?

- 1. Trauma
- 2. Mets
- 3. Aneurysm
- 4. Nothing bled

Guess What Bled ?

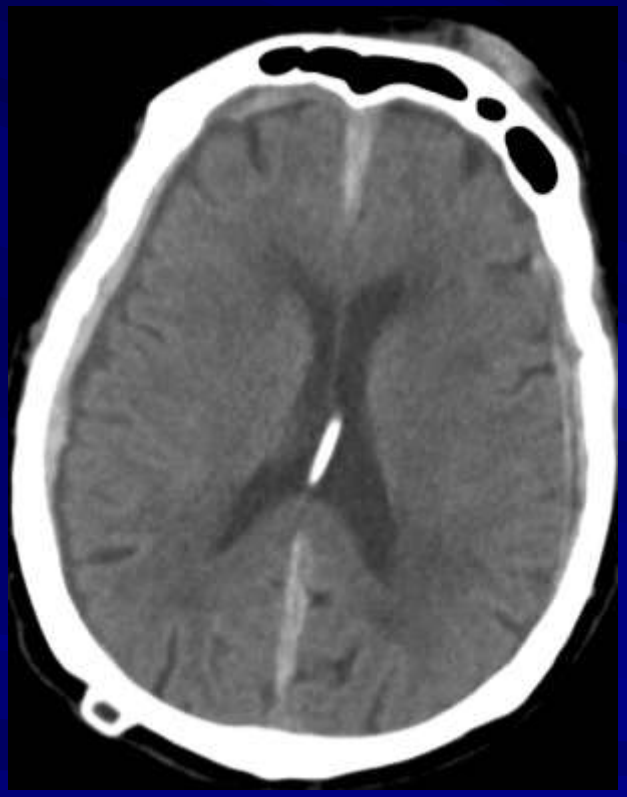


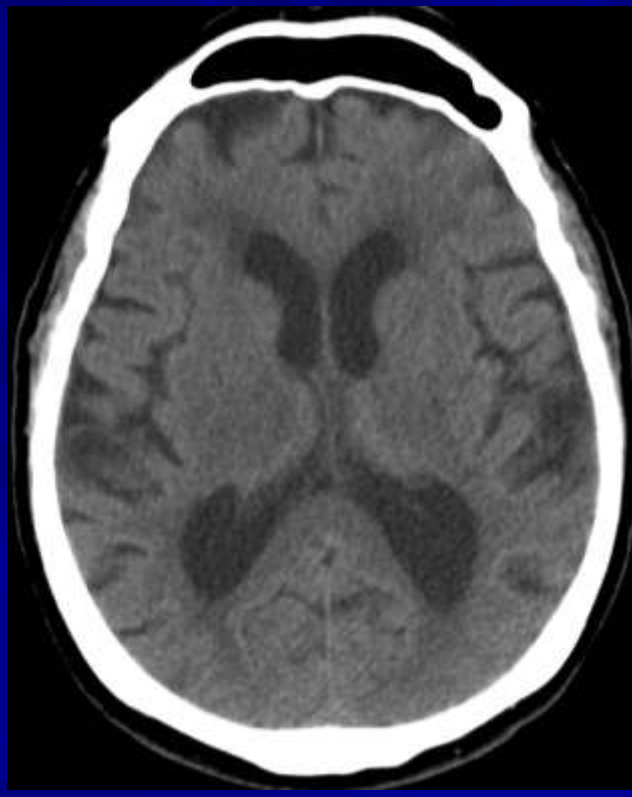


4. Nothing bled

(Brain death)

Guess What Bled ?





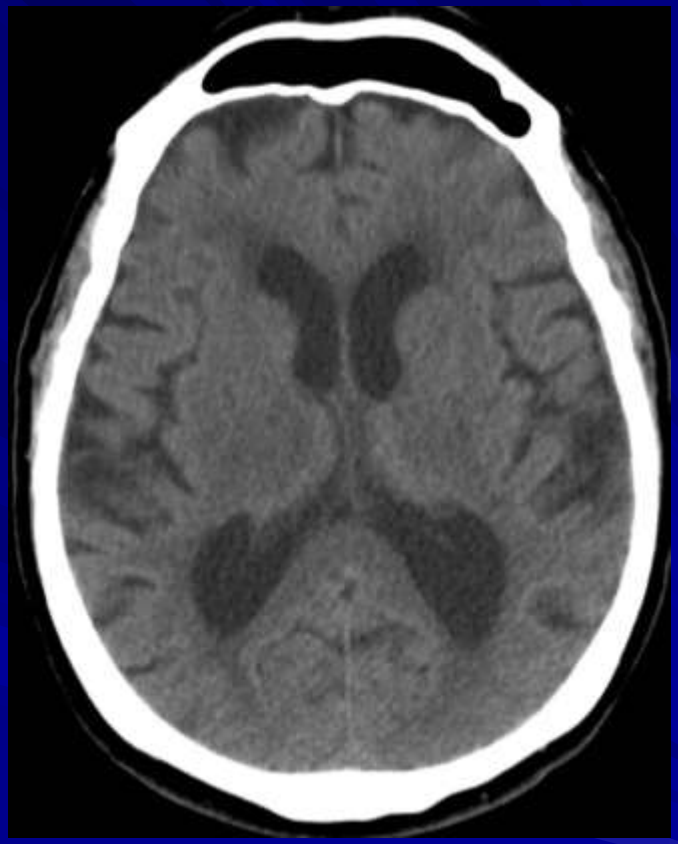
Current Study

Old Study

Guess What Bled ?

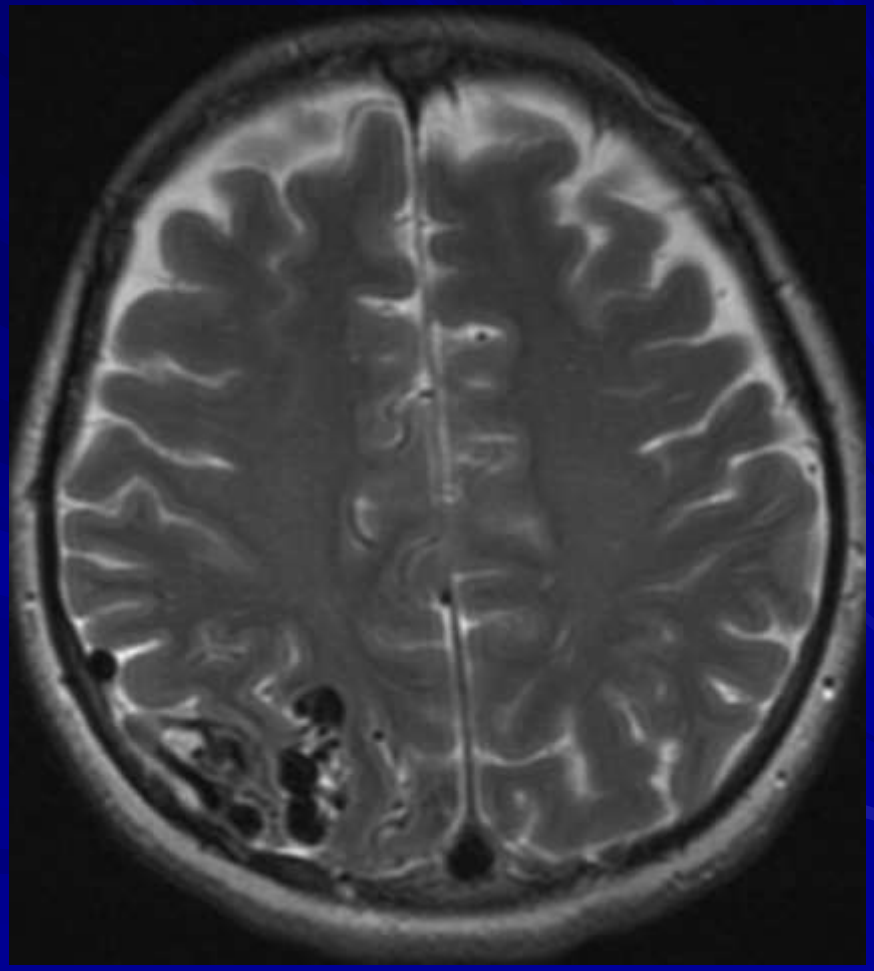
- 1. Trauma
- 2. Hypertension
- 3. Hypotension
- 4. Aneurysm
- 5. Nothing bled

Guess What Bled ?

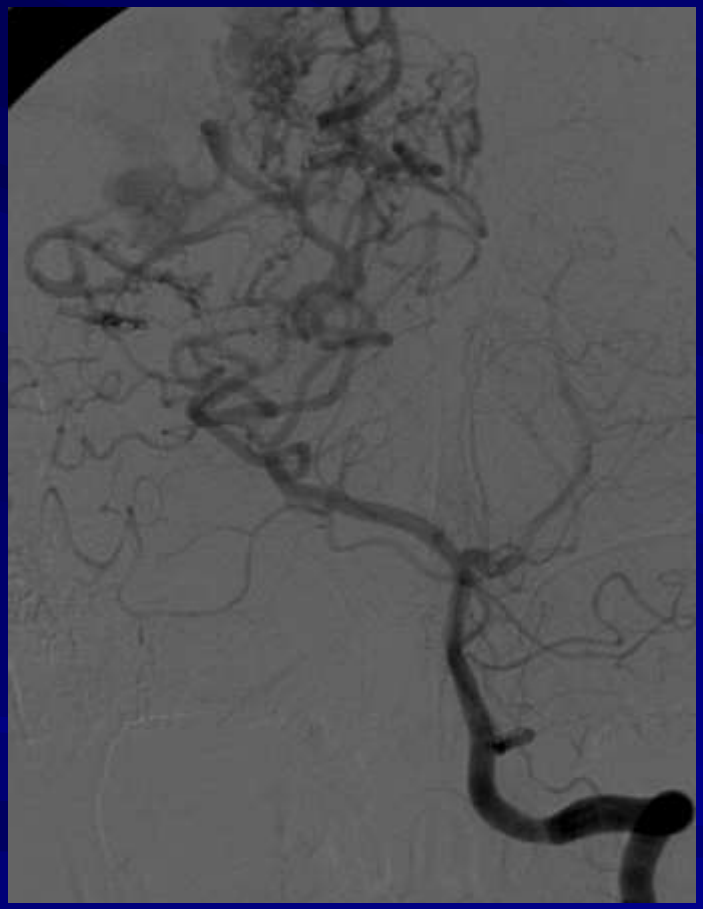


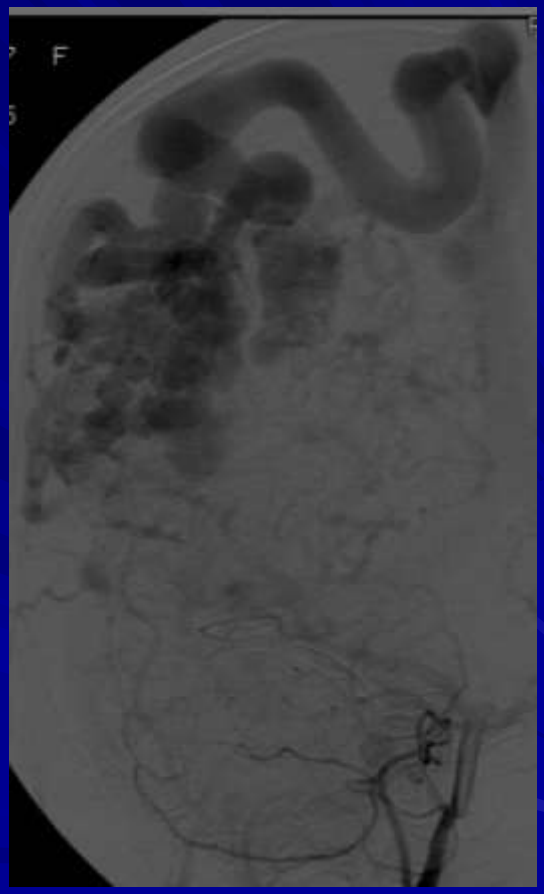
3. (CSF) Hypotension
(Subdural bleeds)

Guess What Bled ?



Guess What Bled ?

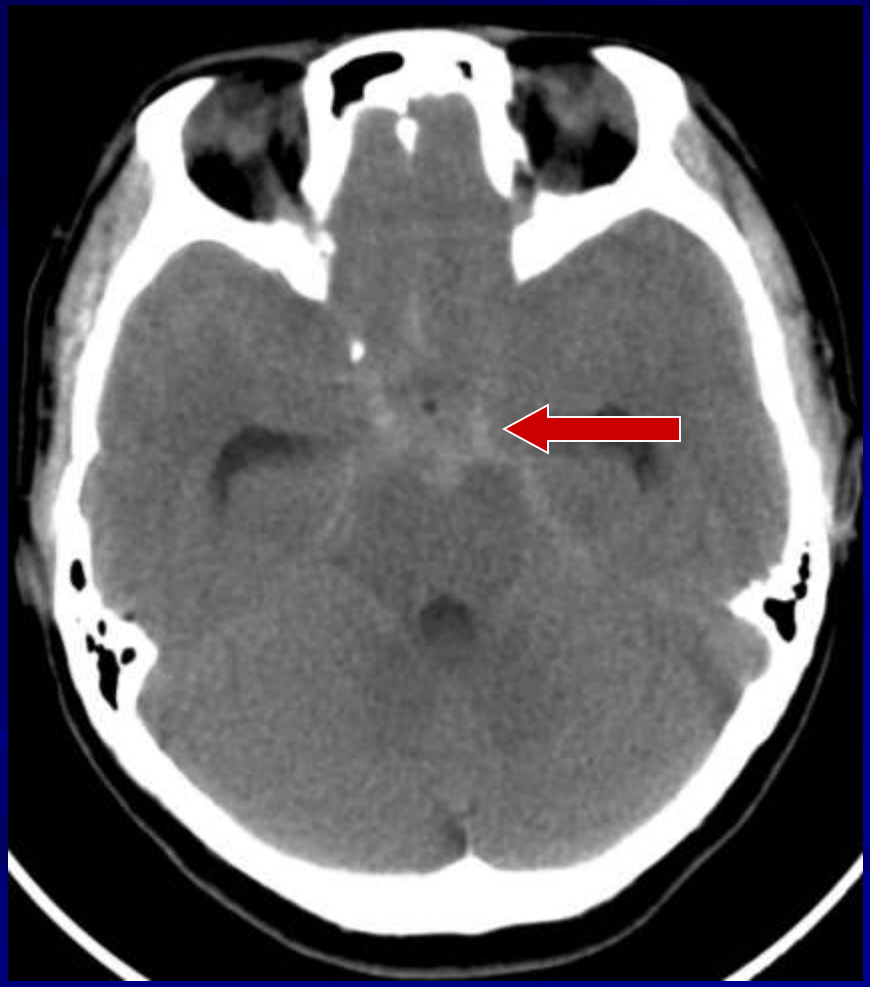




Guess What Bled ?

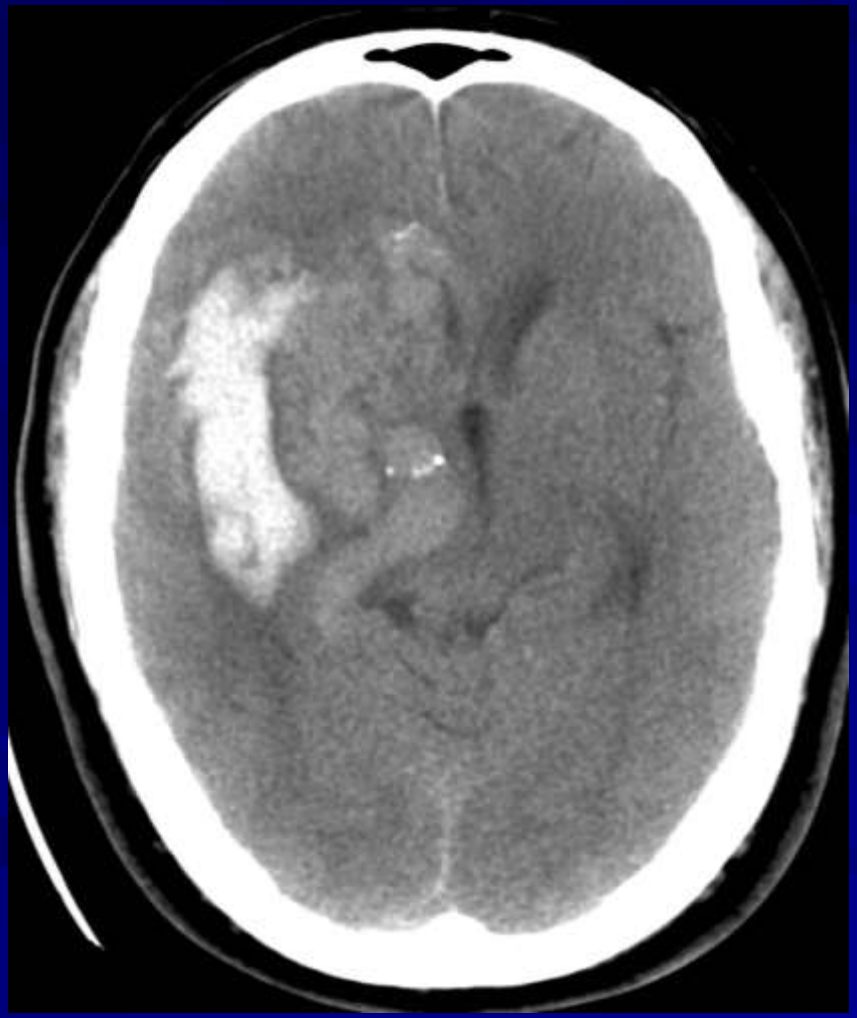
- 1. Aneurysm
- 2. AVM nidus
- 3. Draining vein
- 4. Nothing bled

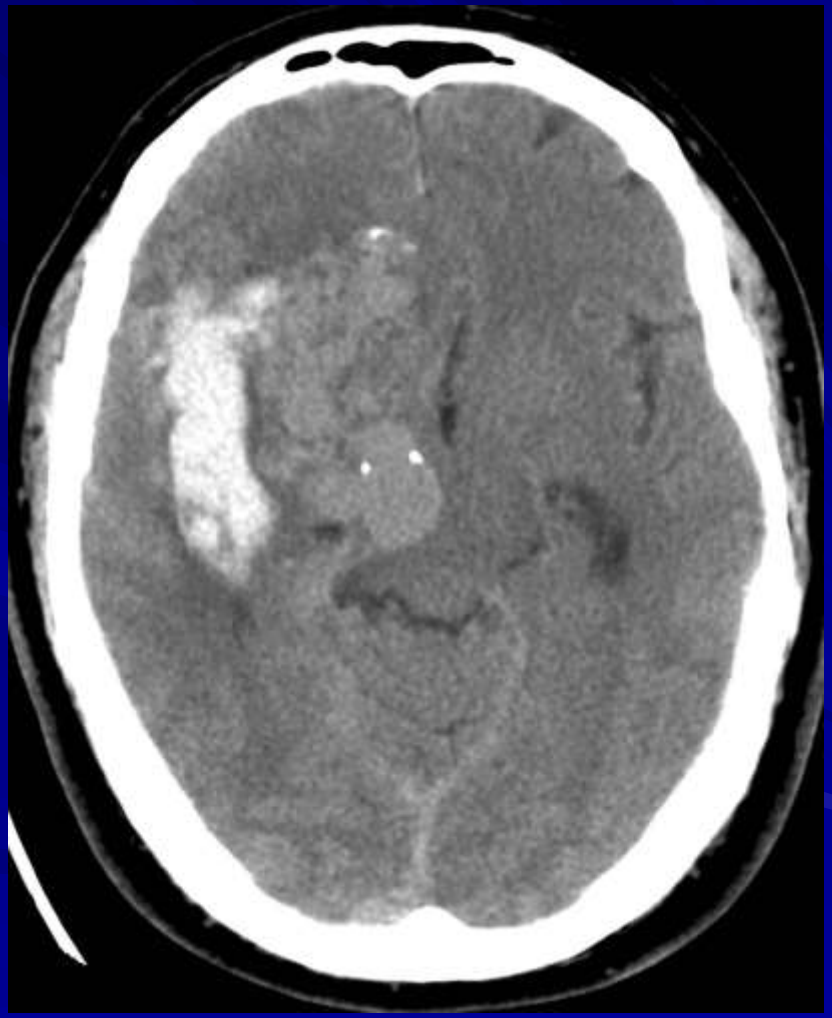
Guess What Bled ?



1. Aneurysm

Guess What Bled ?

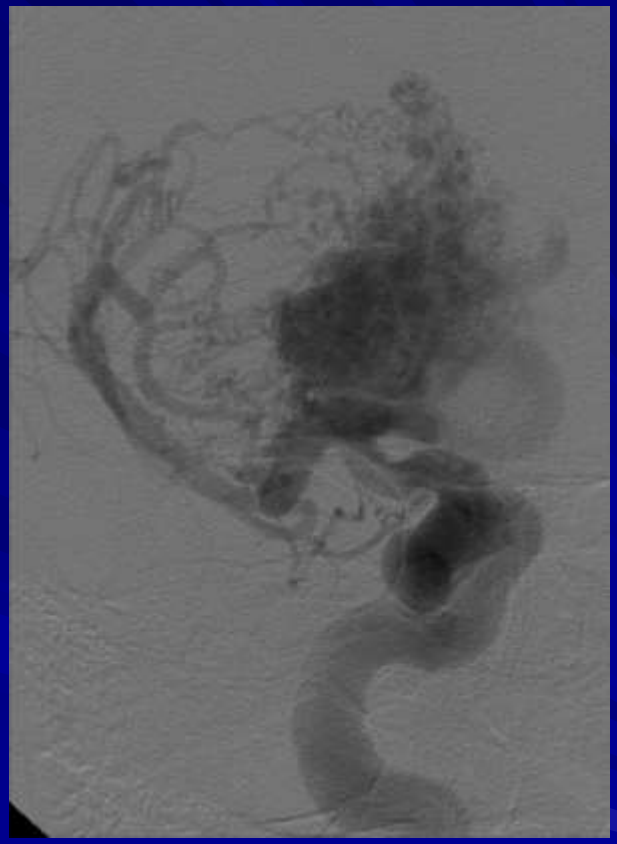




Guess What Bled ?

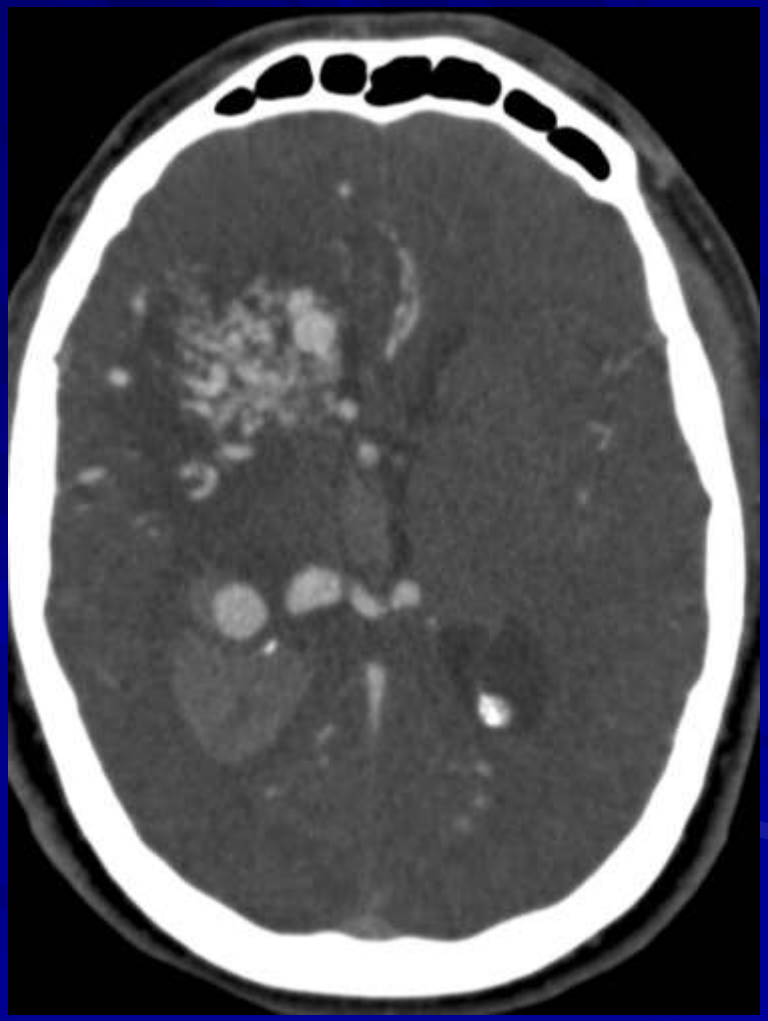
- 1. Aneurysm
- 2. AVM nidus
- 3. Draining vein
- 4. Neoplasm
- 5. Nothing bled

Guess What Bled ?

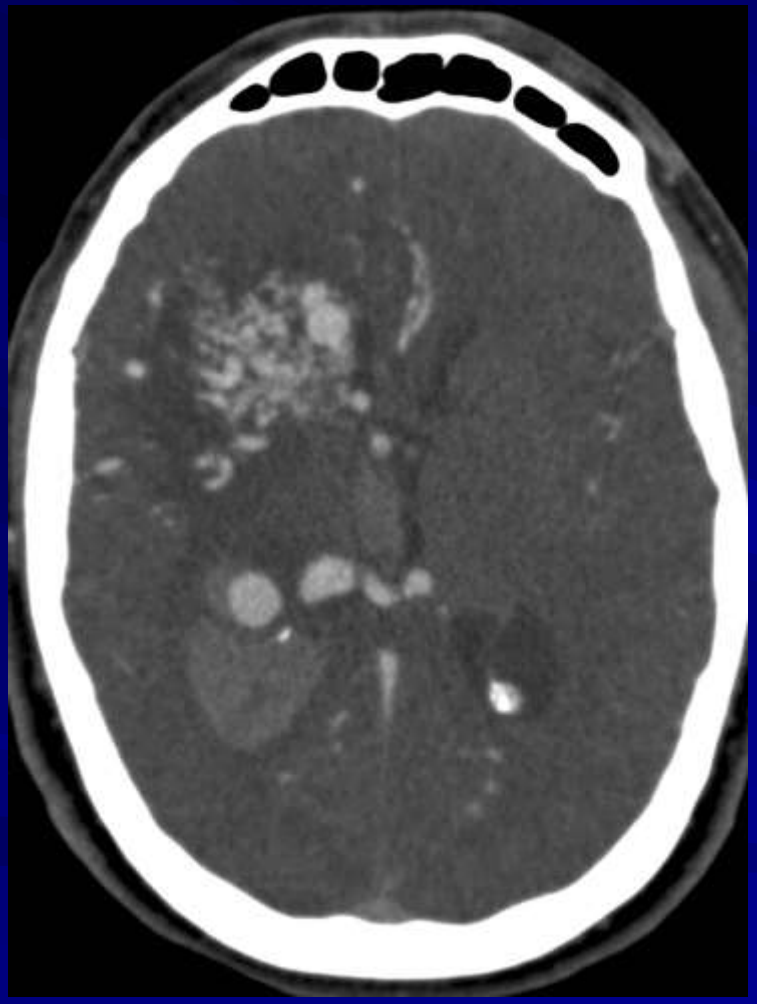


2. AVM nidus

Guess What Bled ?



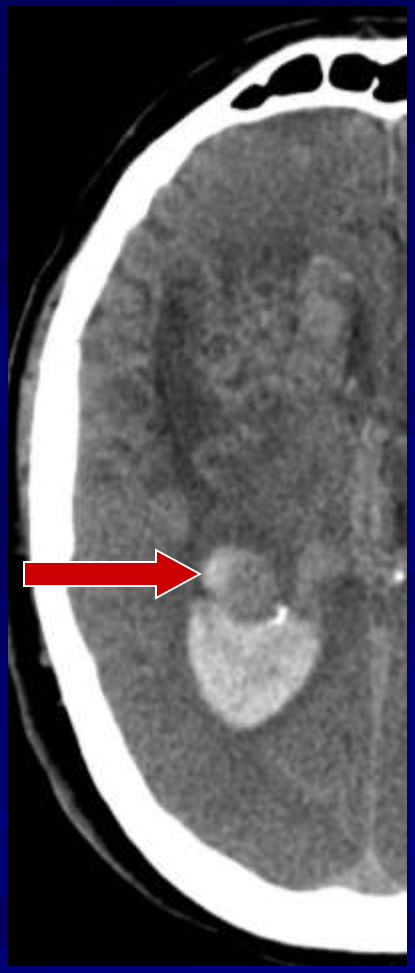
Guess What Bled ?

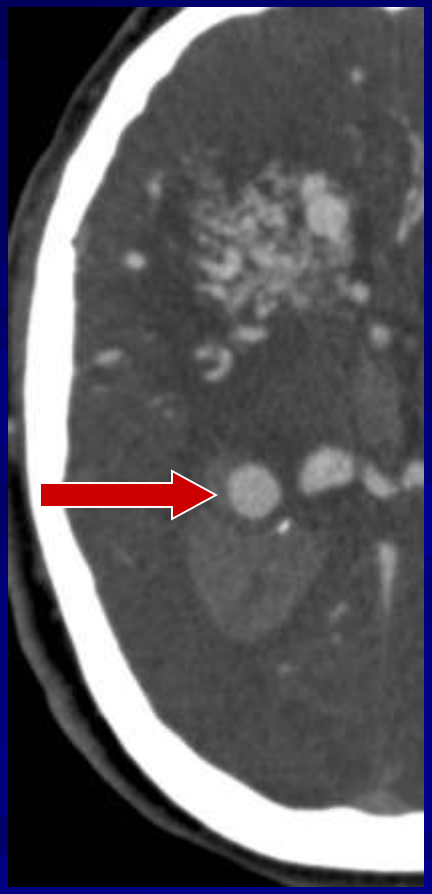


Guess What Bled ?

- 1. Aneurysm
- 2. AVM nidus
- 3. Draining vein
- 4. Neoplasm
- 5. Nothing bled

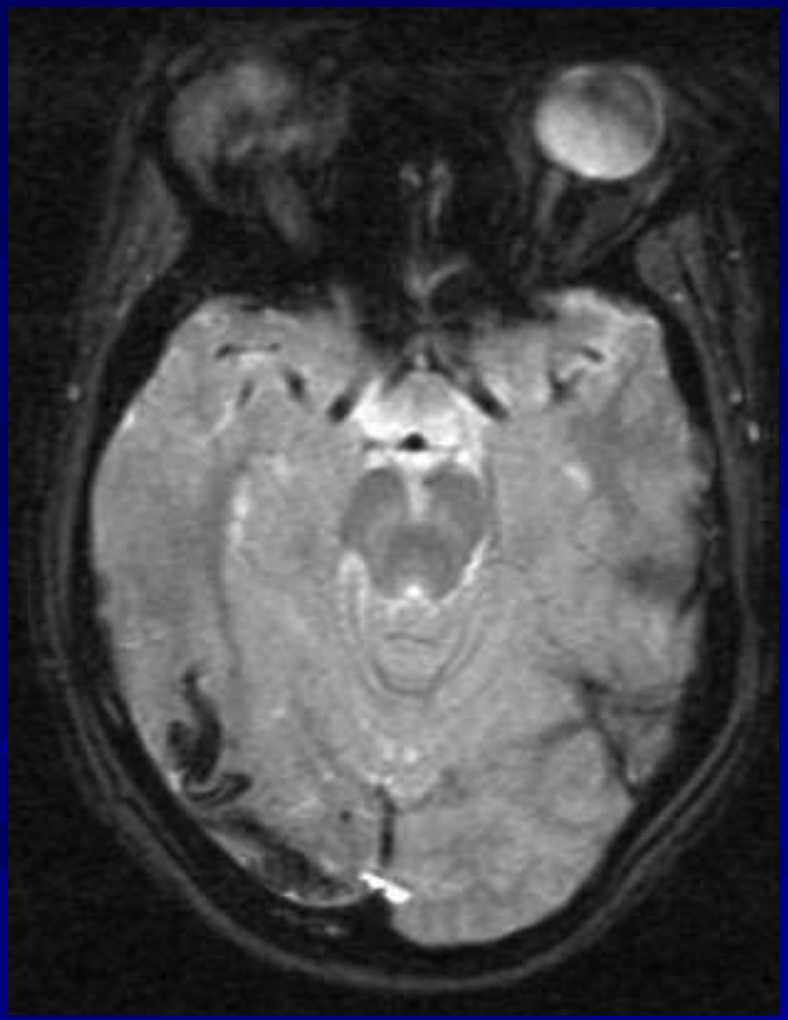
Guess What Bled ?





3. Draining vein

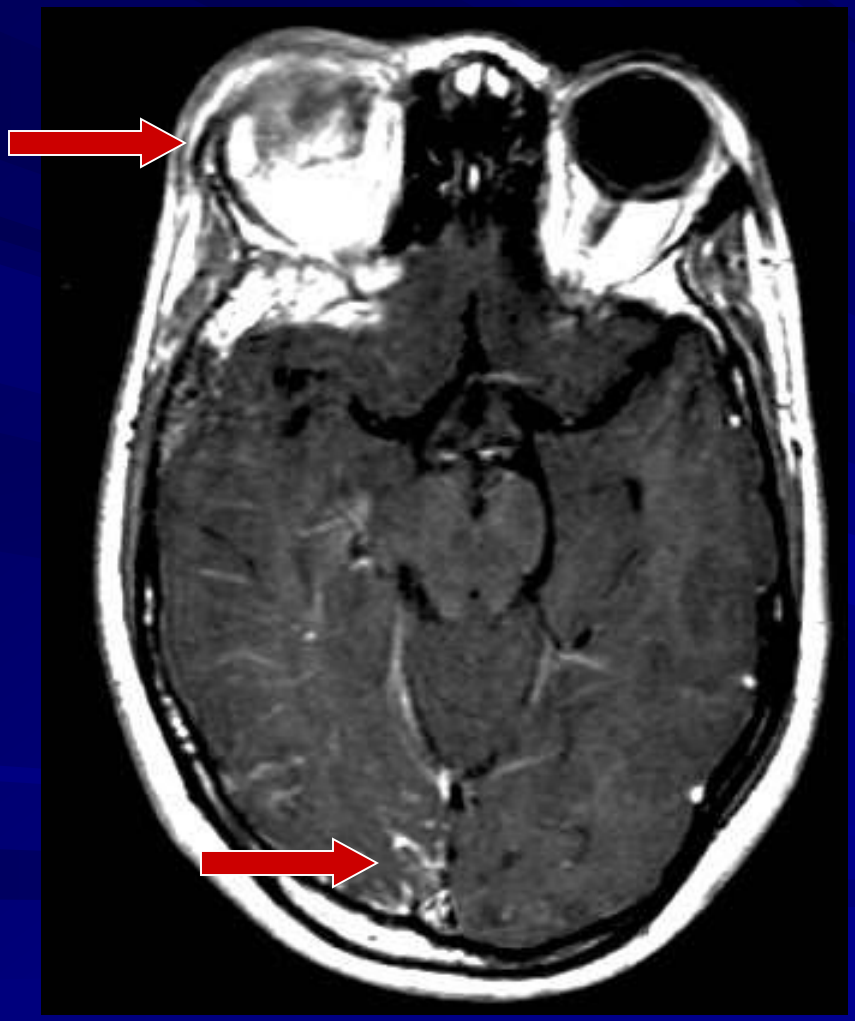
Guess What Bled ?

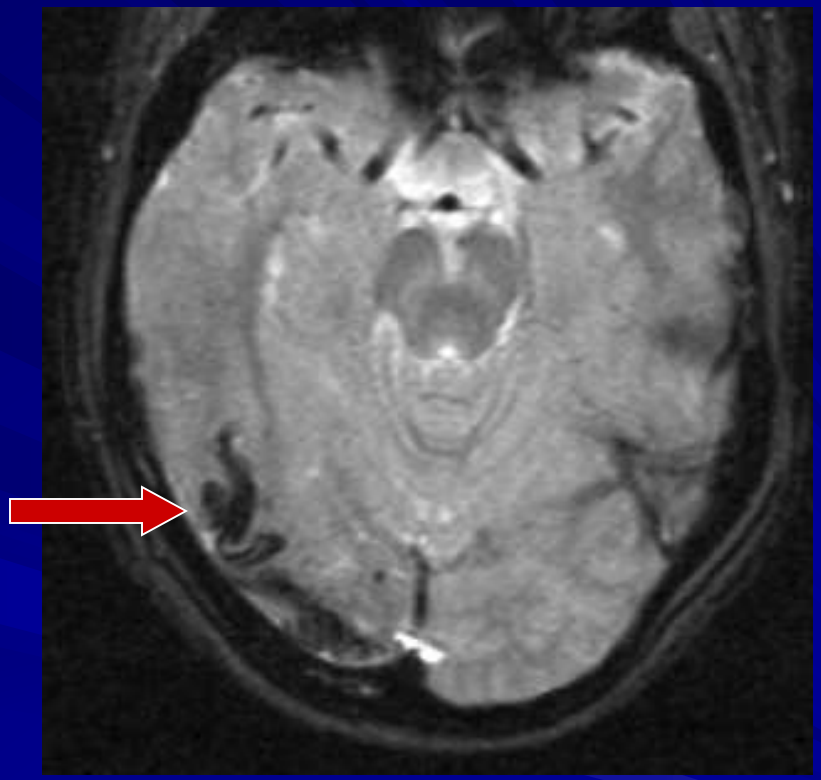


Guess What Bled ?

- 1. AVM nidus
- 2. Moya Moya
- 3. Vasculitis
- 4. Venous thrombosis
- 5. Nothing bled

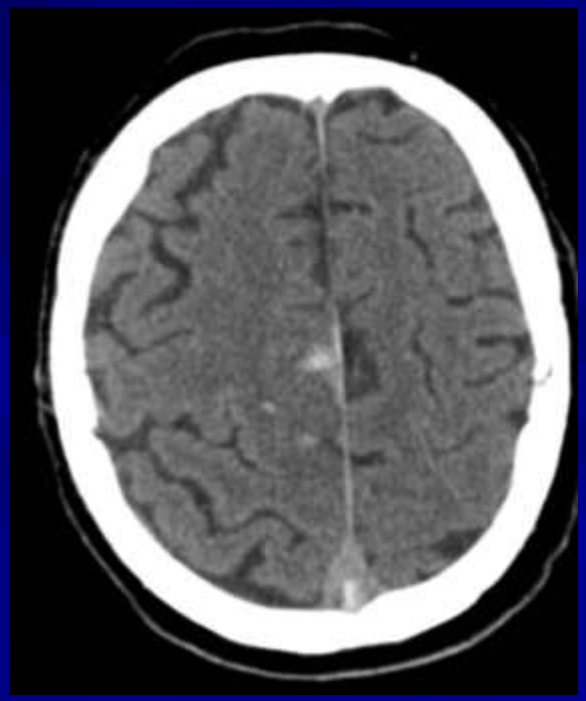
Guess What Bled ?

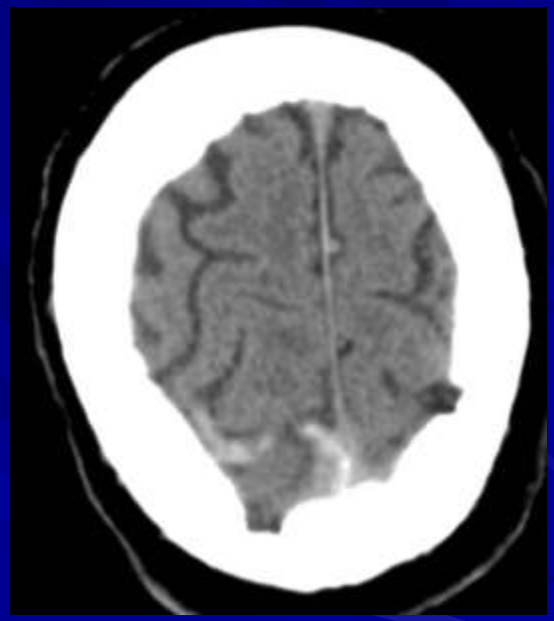




5. Nothing bled
(Sturge Weber)

Guess What Bled ?

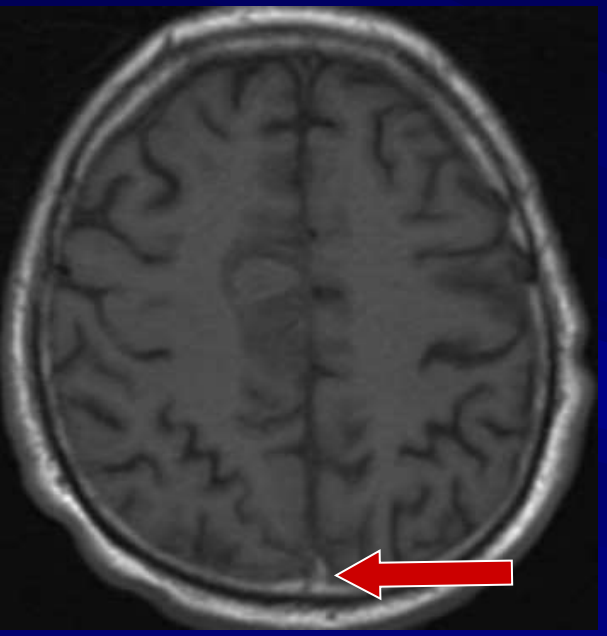


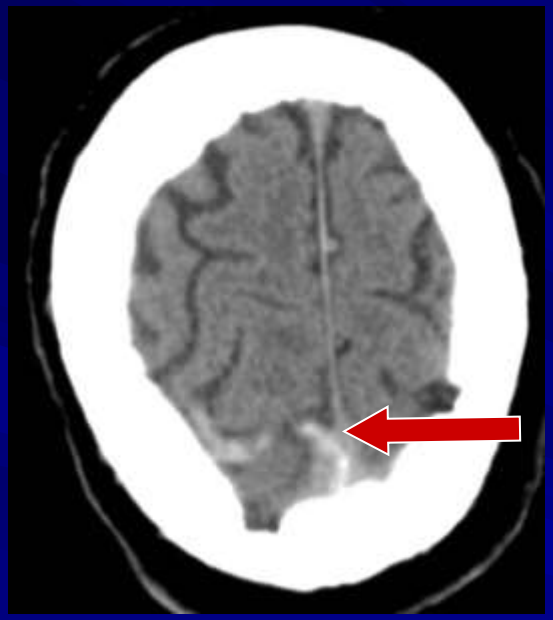


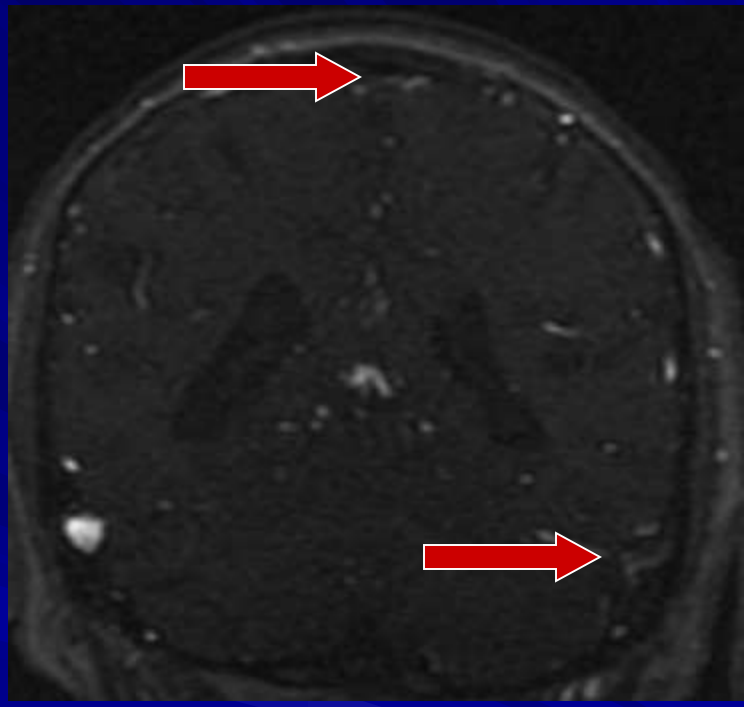
Guess What Bled ?

- 1. AVM nidus
- 2. Moya Moya
- 3. Mycotic aneurysm
- 4. Venous thrombosis
- 5. Nothing bled

Guess What Bled ?



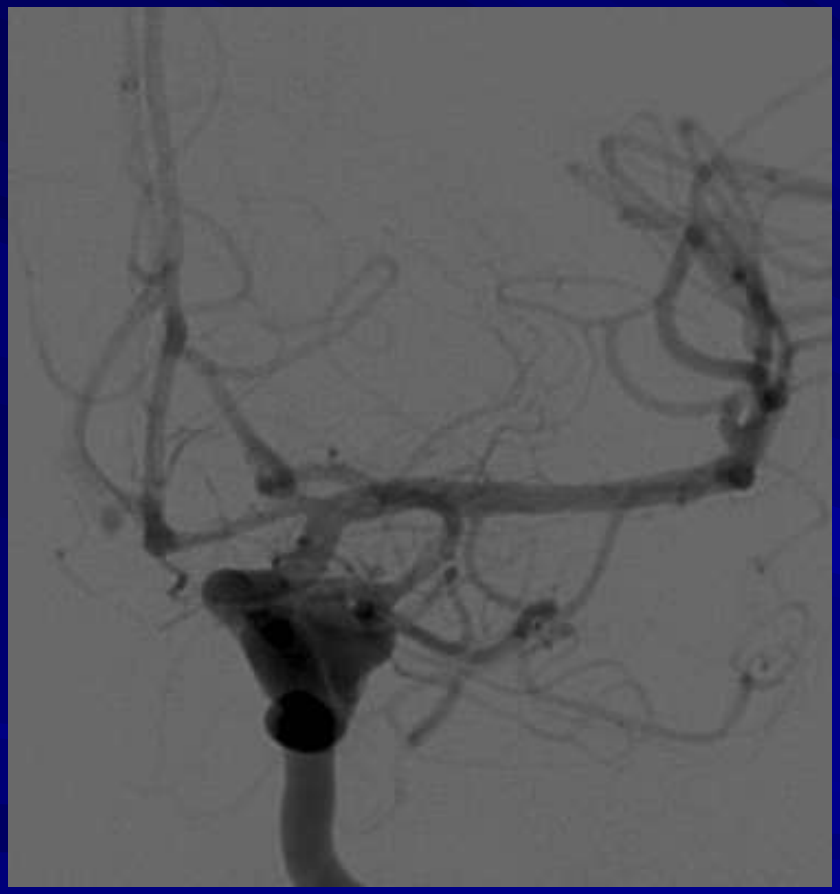




4. Venous thrombosis

Guess What Bled ?

Guess What Bled ?



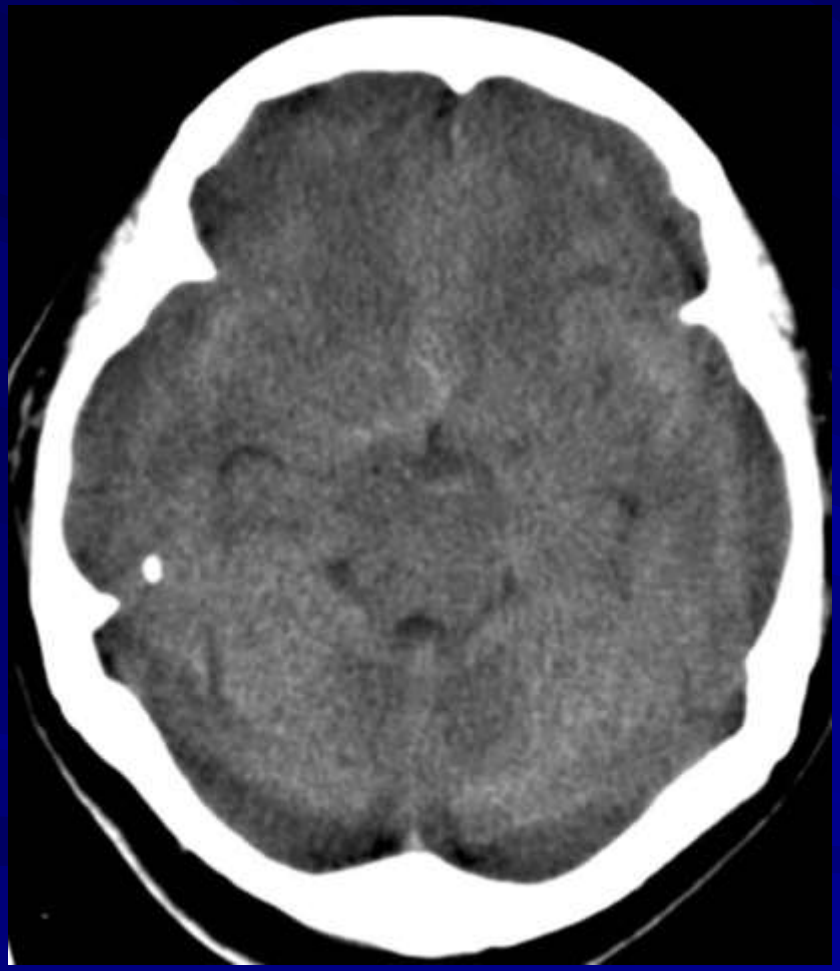
Guess What Bled ?

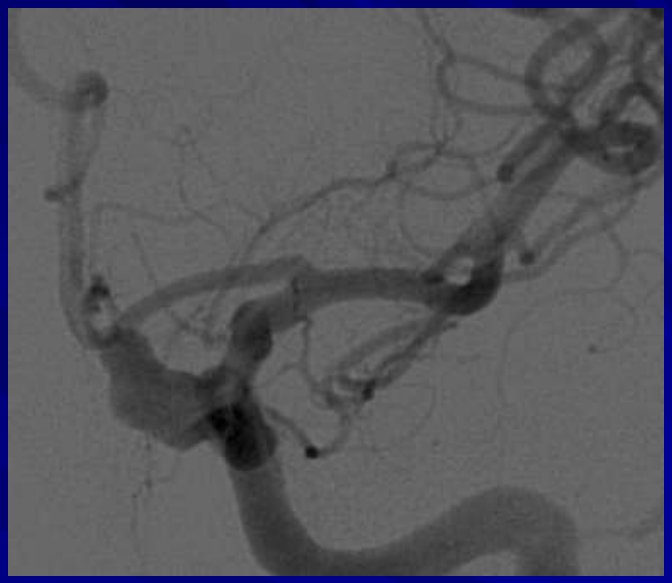
- 1. Acomm aneurysm
- 2. Left Cavernous ICA aneurysm
- 3. Pcomm aneurysm
- 4. Perimesencepahlic SAH
- 5. Nothing bled

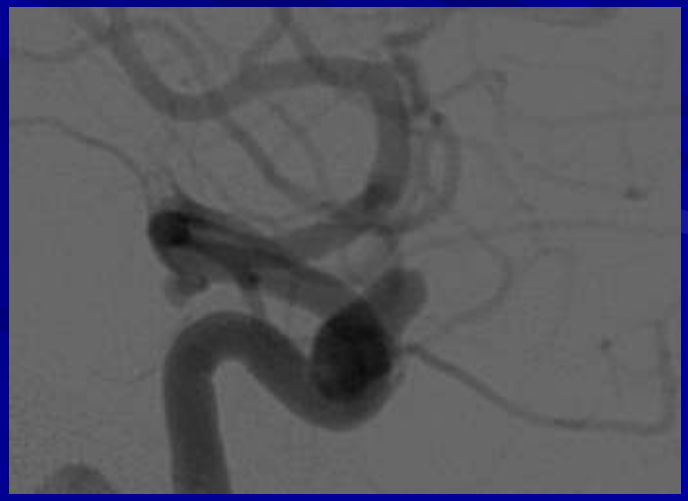
Guess What Bled ?

1. Acomm aneurysm

Guess What Bled ?



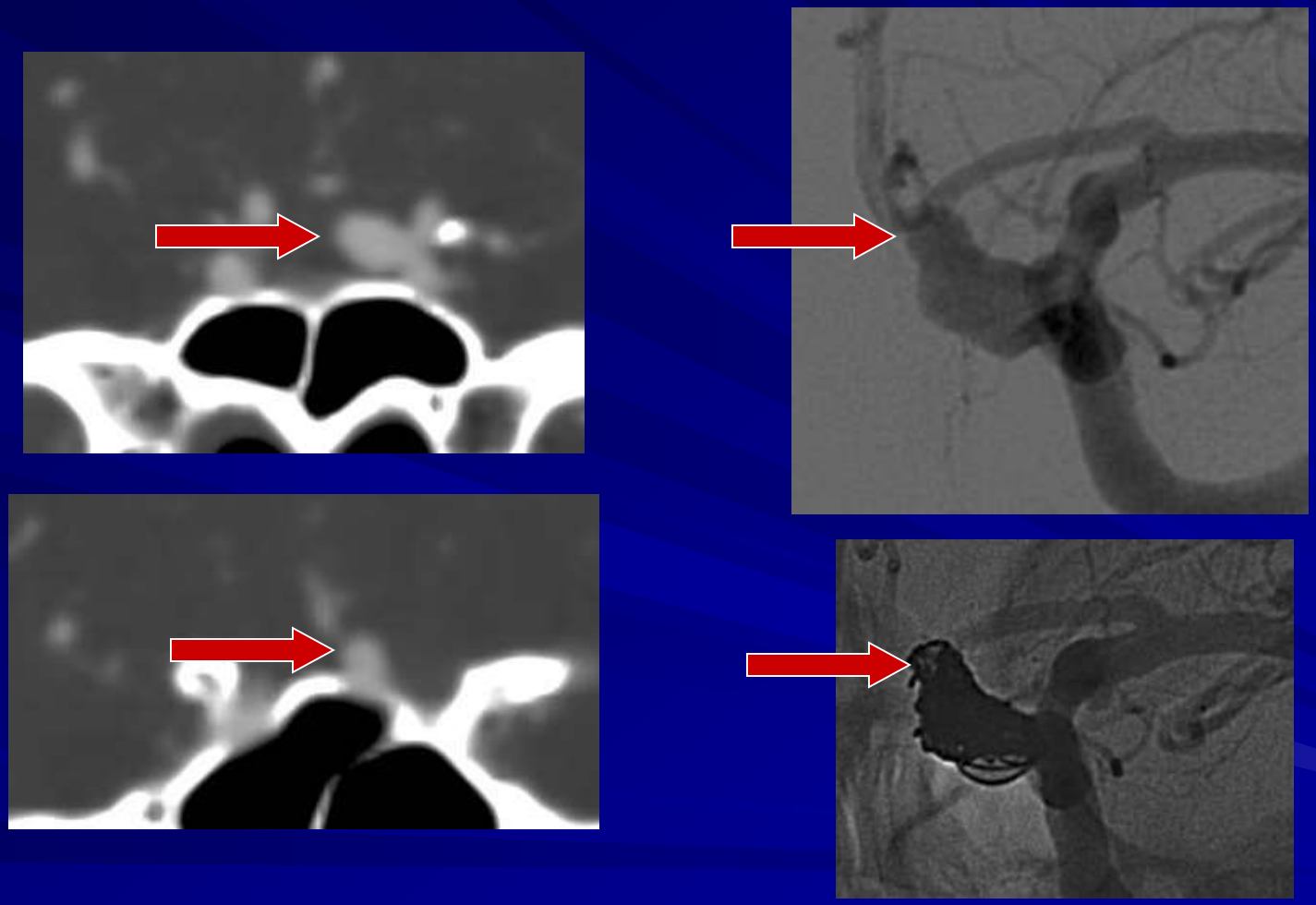




Guess What Bled ?

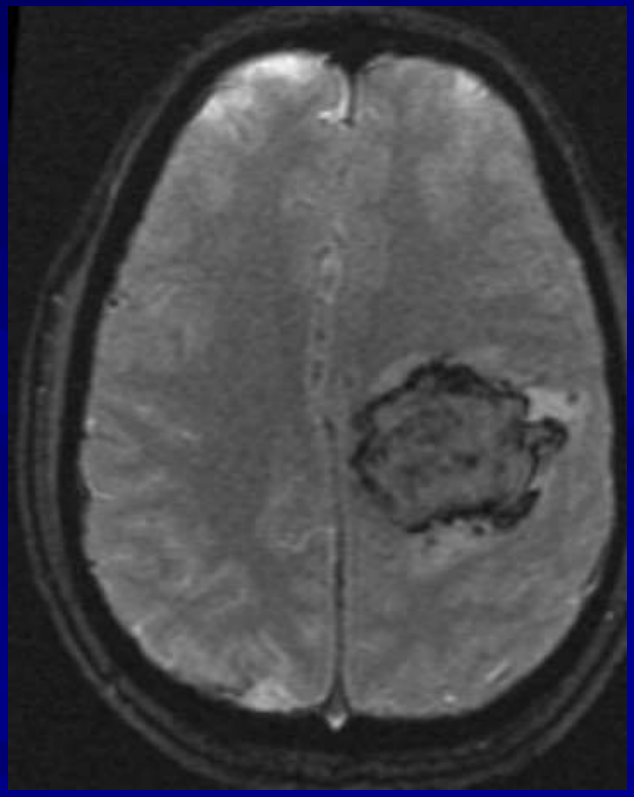
- 1. Acomm aneurysm
- 2. Left Cavernous ICA aneurysm
- 3. Pcomm aneurysm
- 4. Perimesencepahlic SAH
- 5. Nothing bled

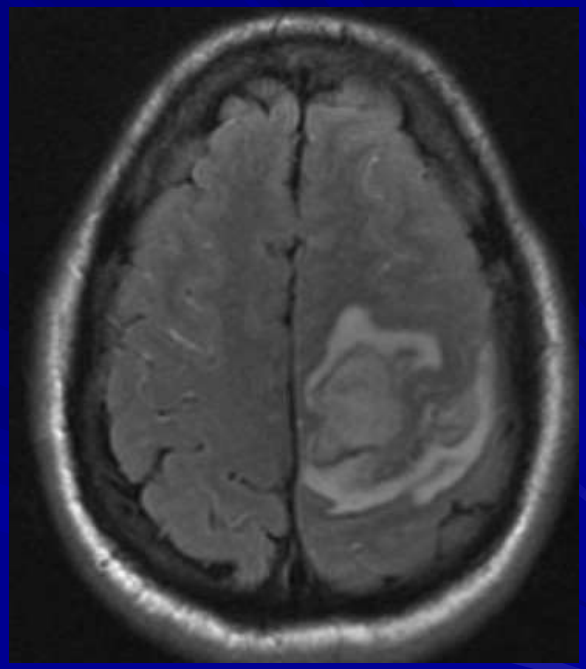
Guess What Bled ?



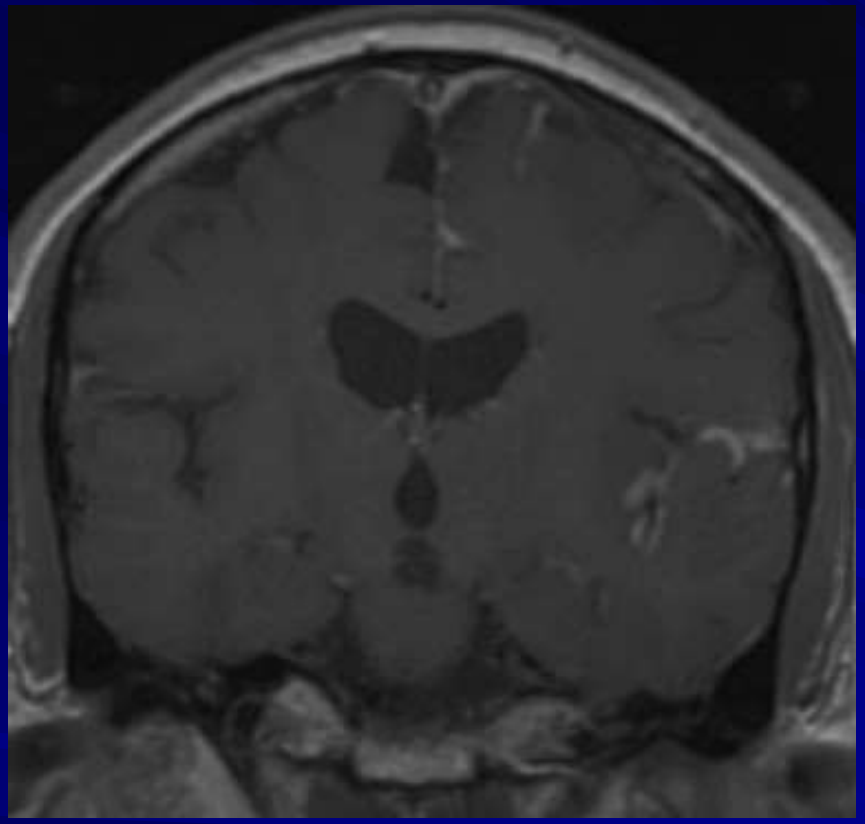
2. Left Cavernous ICA aneurysm

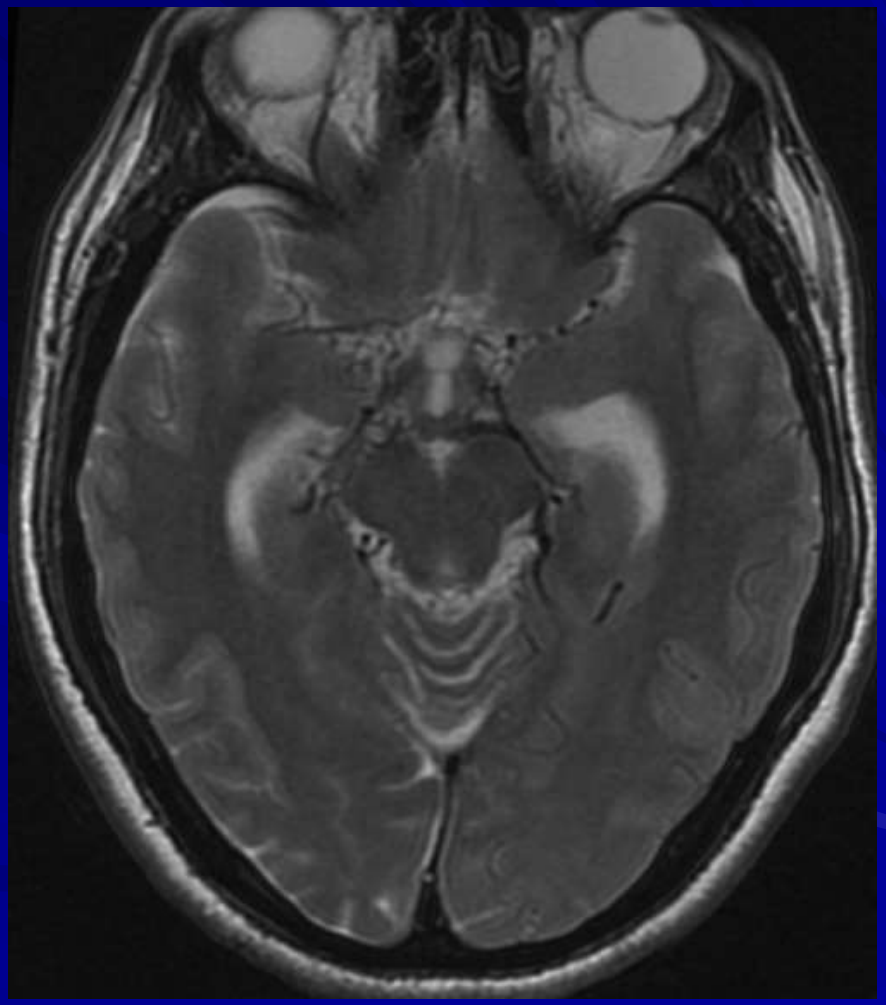
Guess What Bled ?





Guess What Bled ?

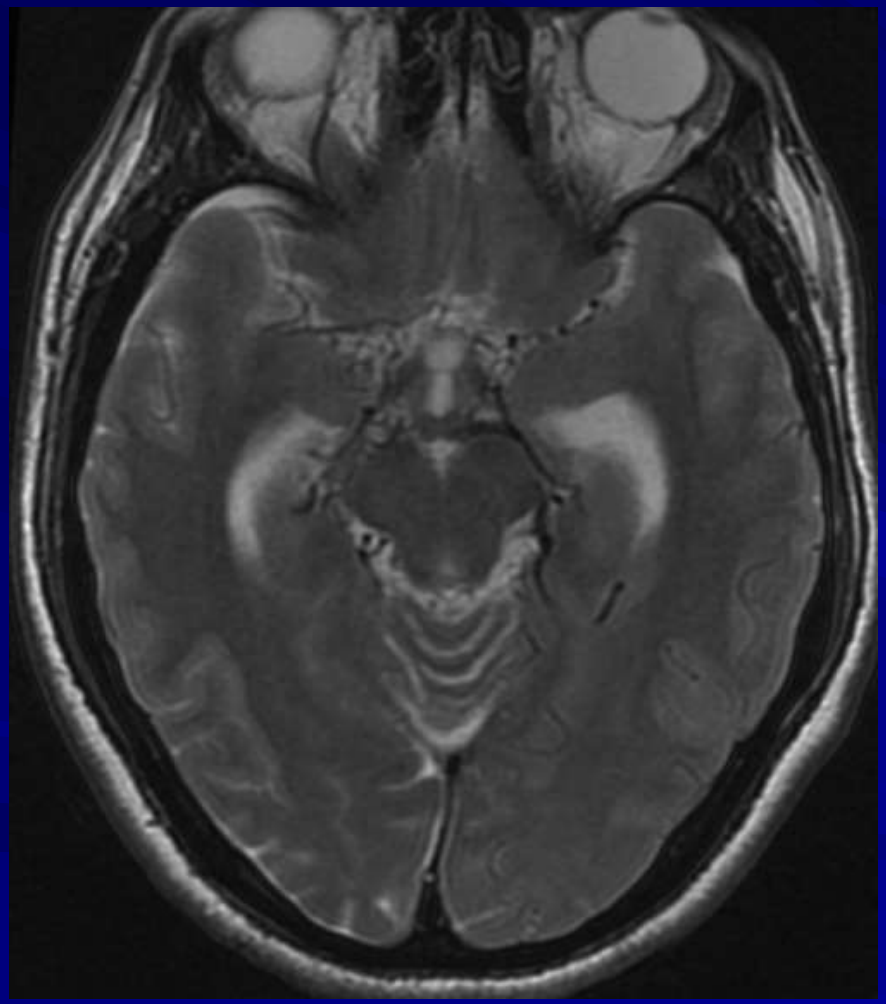


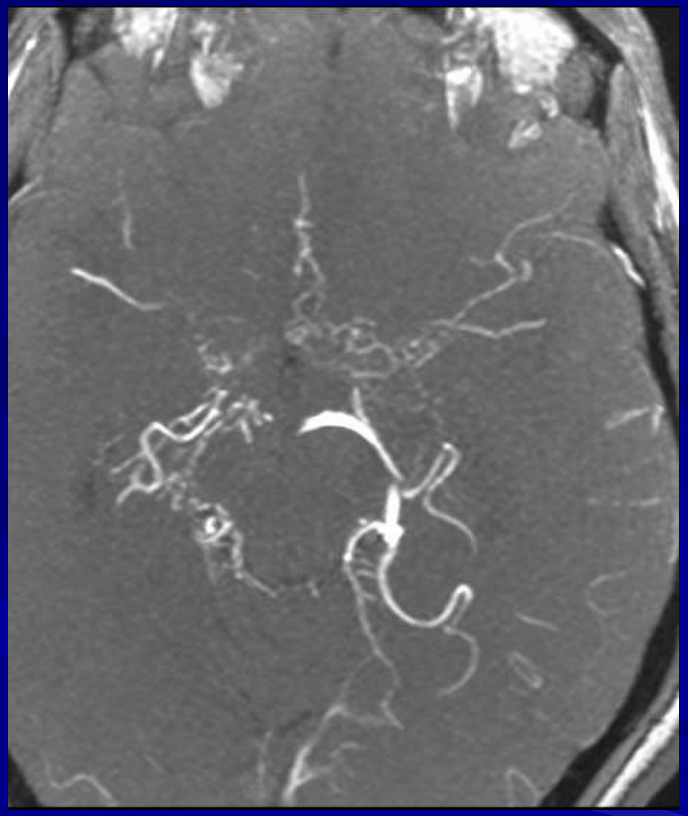


Guess What Bled ?

- 1. AVM nidus
- 2. Moya Moya
- 3. Mycotic aneurysm
- 4. Venous thrombosis
- 5. Nothing bled

Guess What Bled ?



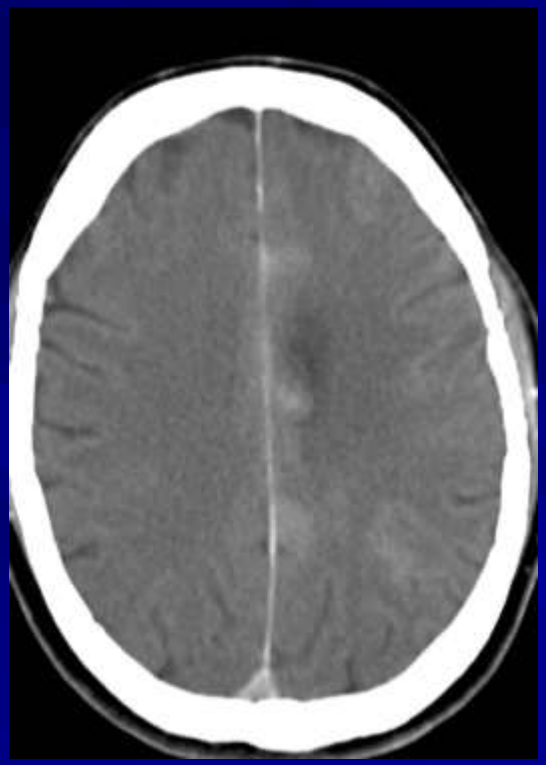


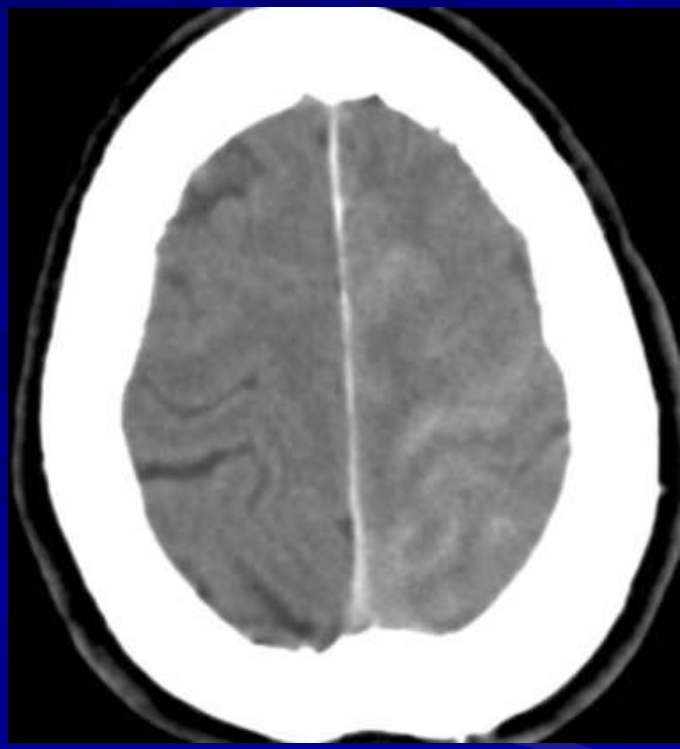
2. Moya Moya

Guess What Bled ?

Left Unruptured Pericallosal Aneurysm

Guess What Bled ?

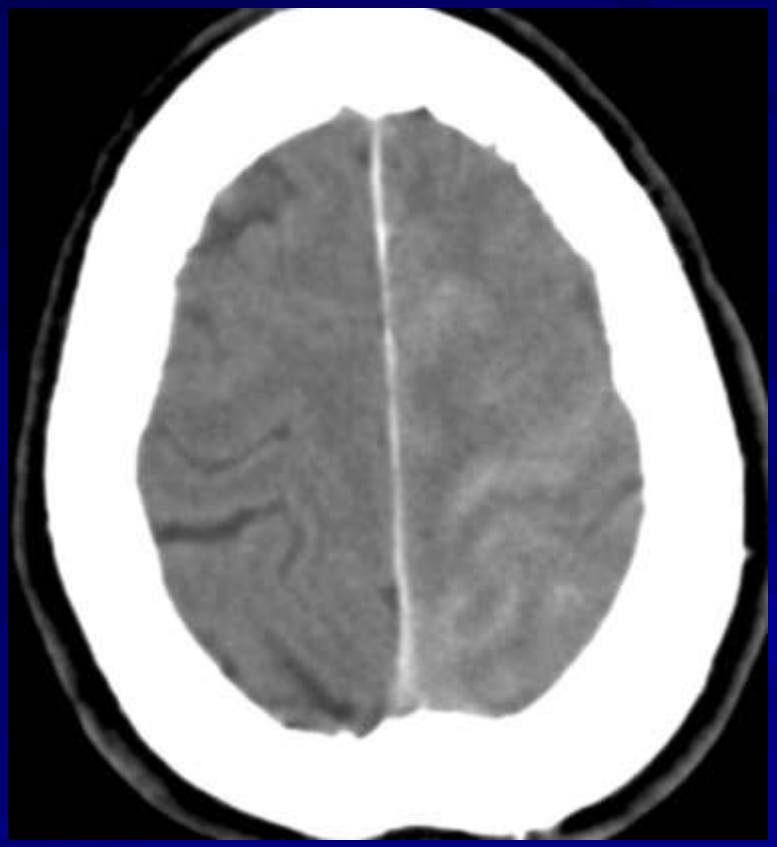


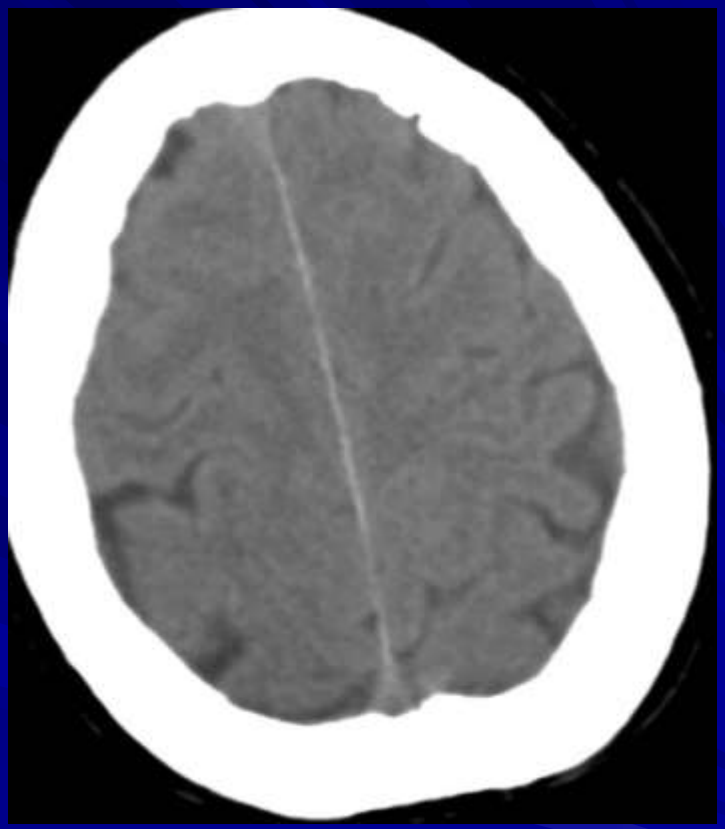


Guess What Bled ?

- 1. Pericallosal aneurysm
- 2. Vascular injury by stent or wire
- 3. Another aneurysm
- 4. Anticoagulation and trauma
- 5. Nothing bled

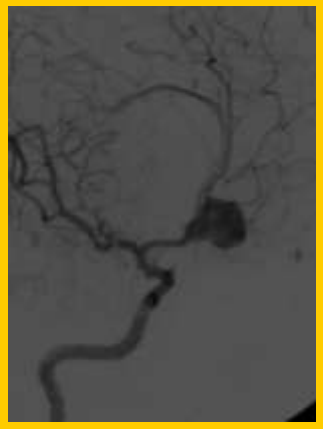
Guess What Bled ?





5. Nothing bled

(Supraselective enhancement)

Vascular Neuropathology

Guess What Bled ?