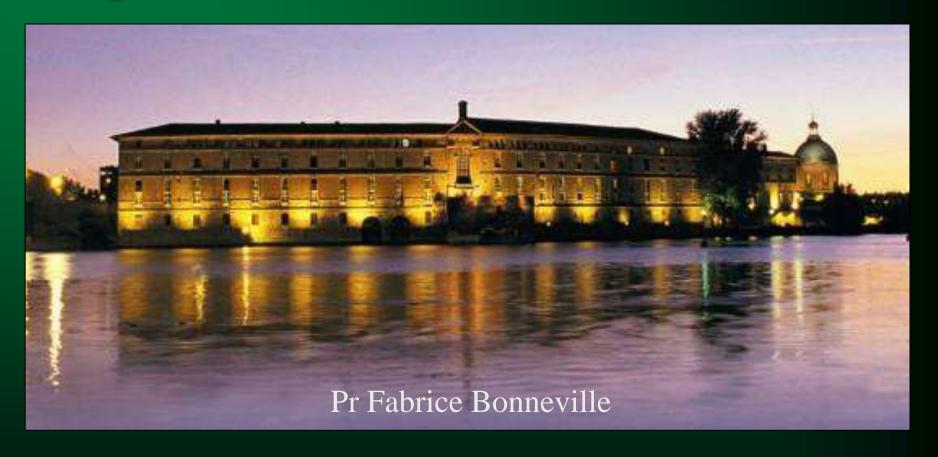
SFNR 2014

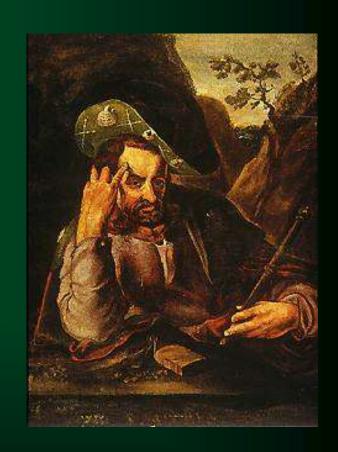
Diagnostic des HSA non-anévrysmales

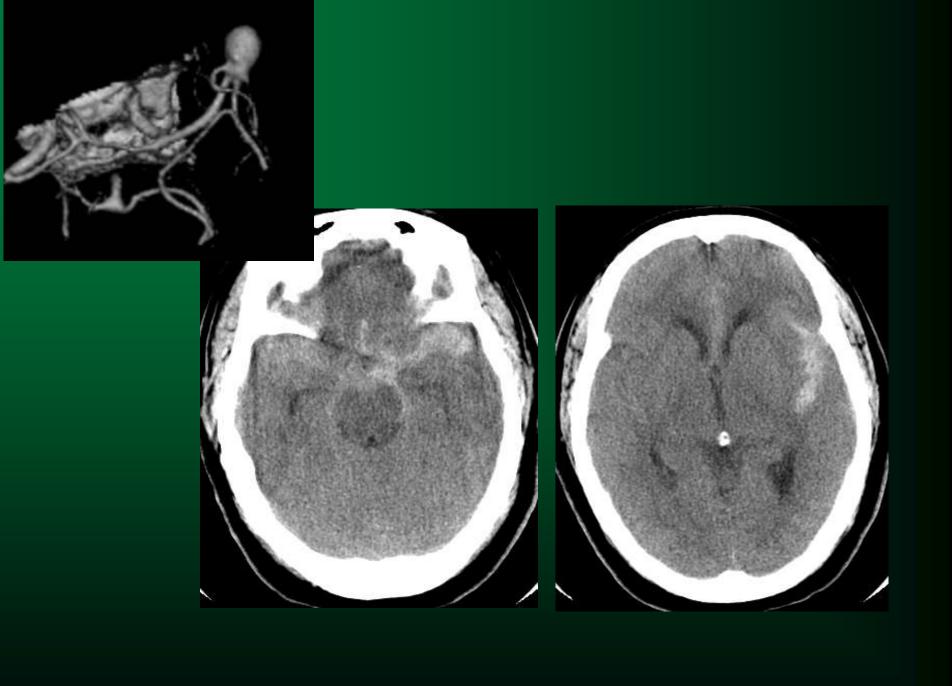


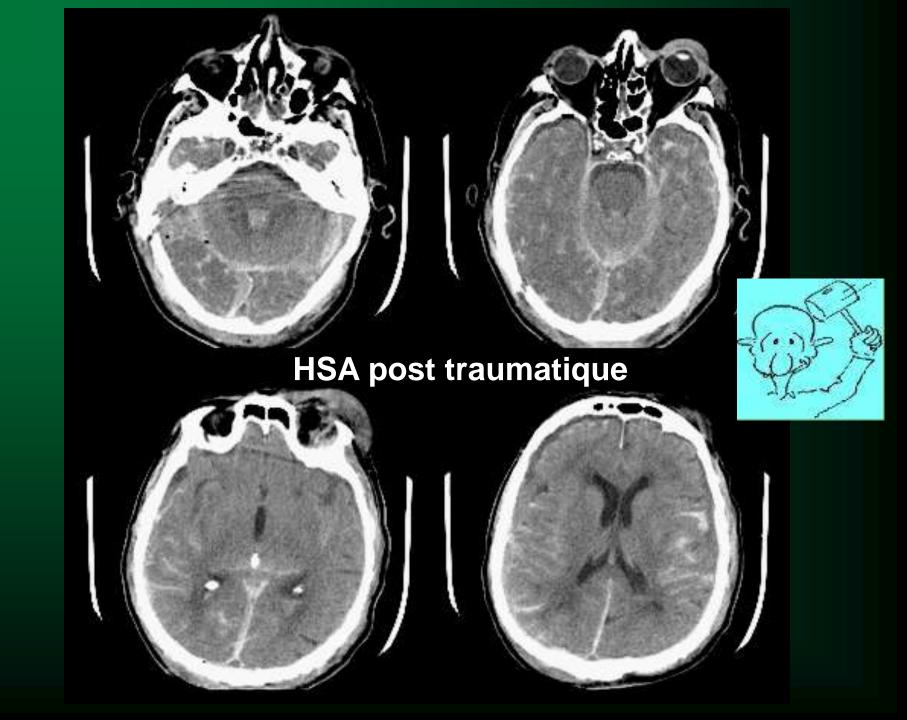
Service de Neuroradiologie CHU Toulouse

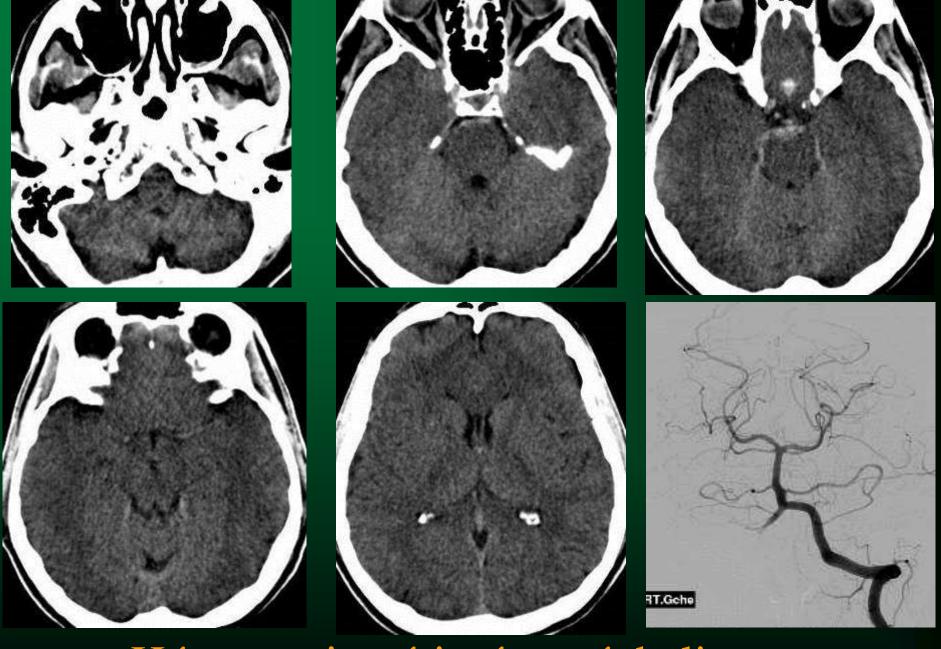
Objectifs

- ♦ Reconnaitre une HSA (isodense,...)
- Proposer une méthode d'exploration d'une HSA
- ♦ Montrer la place du scanner et de l'IRM (artériographie)
- ♦ Découvrir les causes d'HSA non-anévrysmale









Hémorragie périmésencéphalique

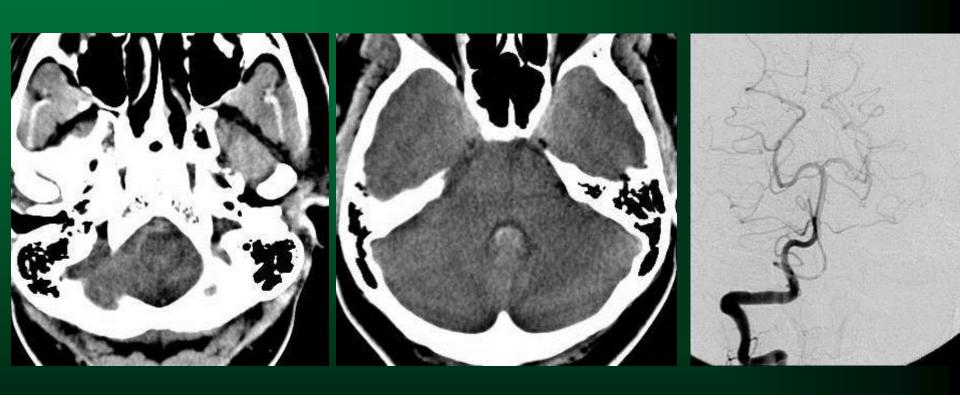
HSA « péri-mésencéphalique »

- + Hémorragie, en générale:
 - Peu abondante
 - Prédomine en fosse postérieure
 - Peut remonter dans vallées sylviennes
 /asymetrique/ intraventriculaire
 - Moins grave (mortalité:0, spasme rare)
 - D'origine veineuse
 - Ne récidive pas
 - Diagnostic d'élimination :
 - Anévrysme fosse postérieure
 - Dissection intracrânienne
 - « 2^e look »





HSA Périmésencéphalique « atypique »



asymétrique, intraventriculaire, ...





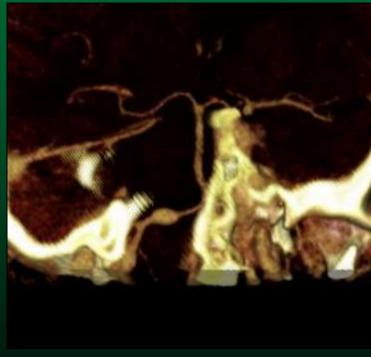
2ème look

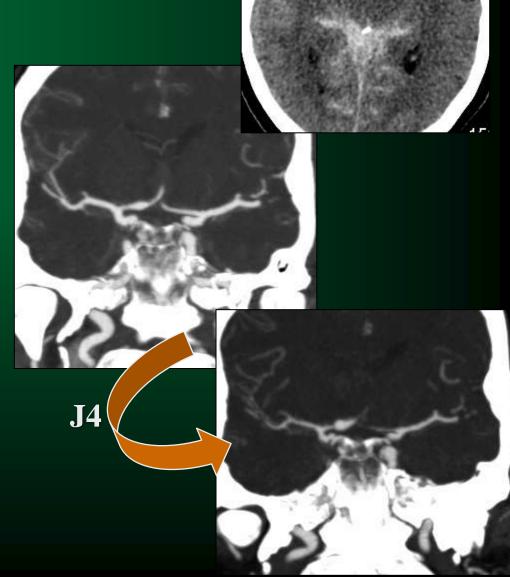
2^e look rapproché: pas irm





2^e look: angioscan dissection











BRIEF COMMUNICATION

Korean J Parasitol Vol. 51, No. 6: 755-757, December 2013 http://dx.doi.org/10.3347/kjp.2013.51.6.755

Detection of Gnathostoma spinigerum Antibodies in Sera of Non-Traumatic Subarachnoid Hemorrhage Patients in Thailand

HSA non-traumatiques

- ♦ 85% rupture d'anévrysme
- ♦ 10% périmésencéphalique
- ♦ MAV, Fistule, dissection
- ♦ HSA corticale...

Etiology

Pial arteriovenous malformations

Dural arteriovenous fistulas

Arterial dissection

Dural/cortical venous thrombosis

Vasculitides

RCVS

PRES

High-grade stenosis

Endocarditis

CAA

Coagulation disorders

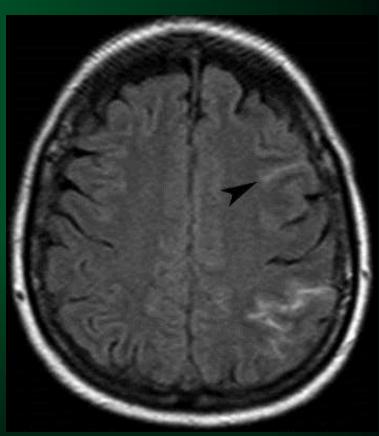
Abscess

Cavernoma

Primary and secondary brain tumors

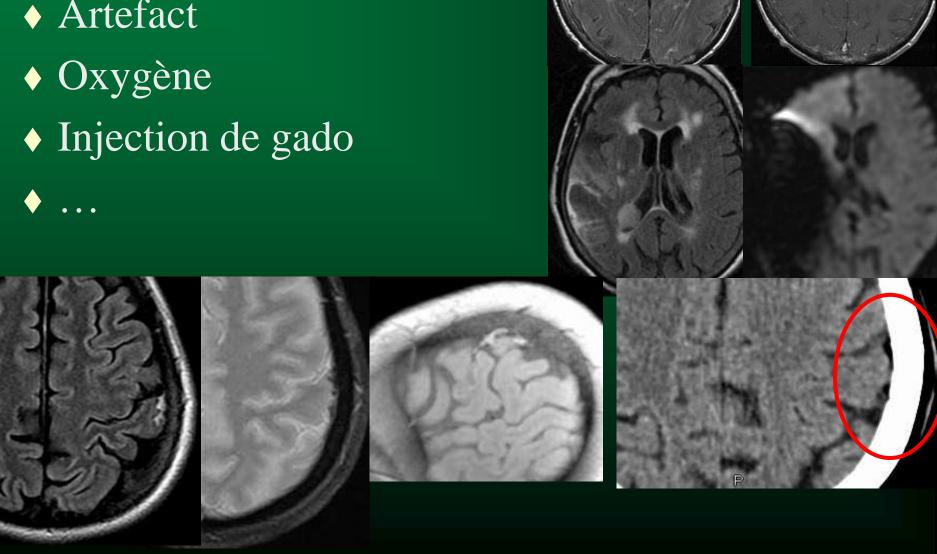


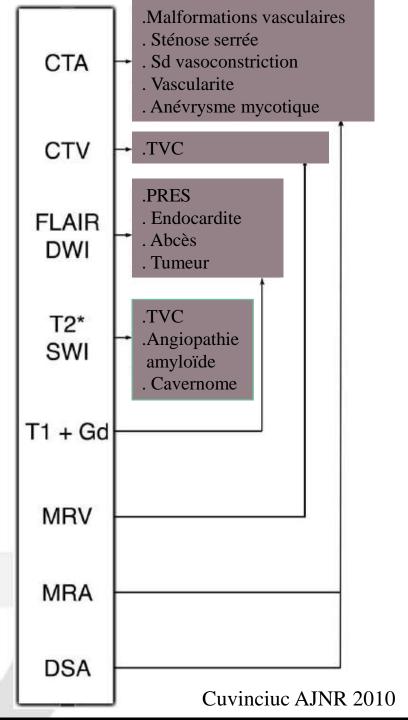




Hypersignaux FLAIR

- ♦ Méningite
- ◆ Artefact



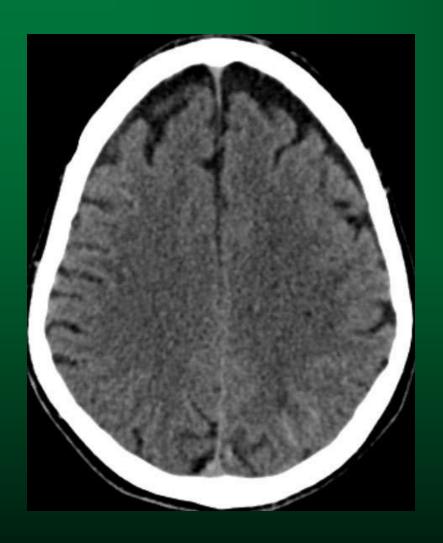


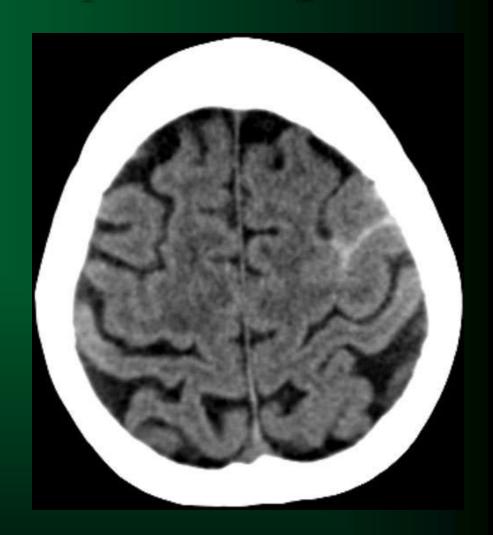
Protocole





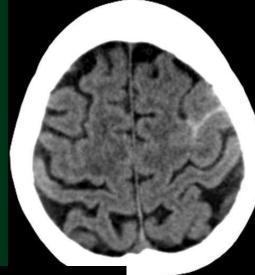
Femme 37 ans. Céphalée aigüe

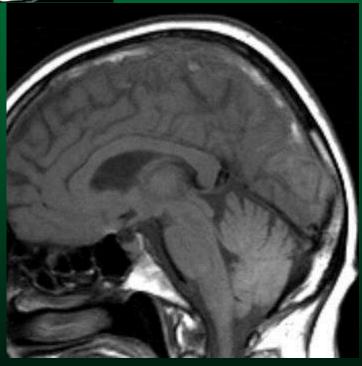


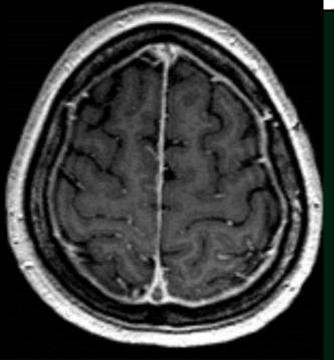




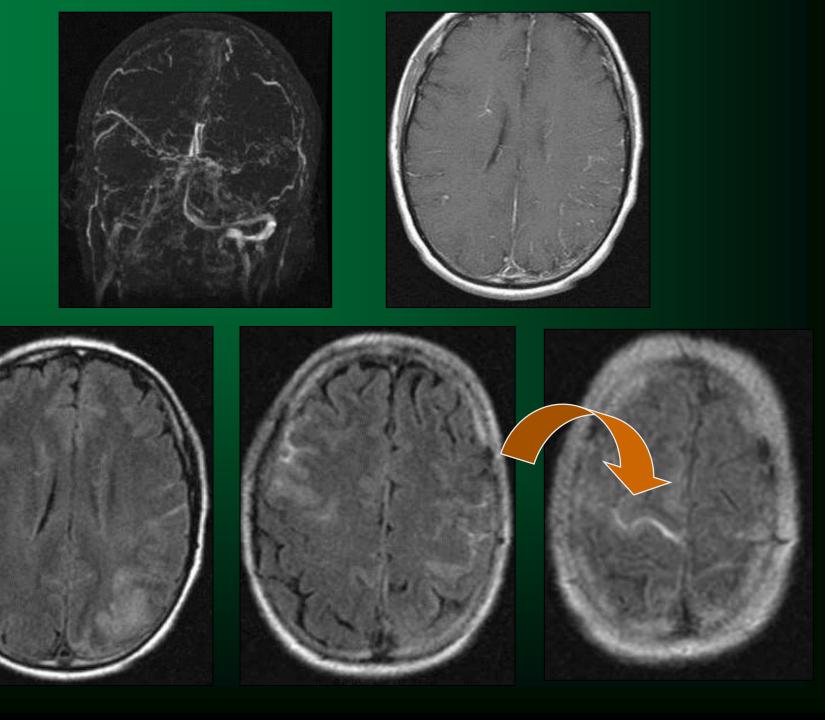
Femme 37 ans. Céphalée aigüe



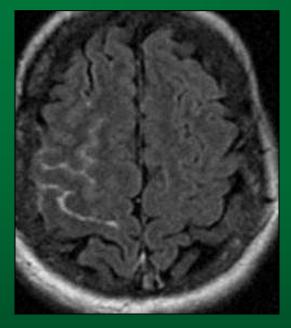


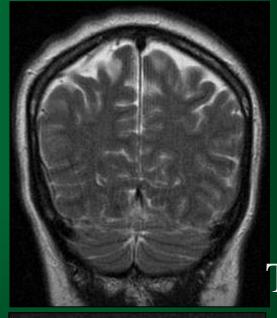


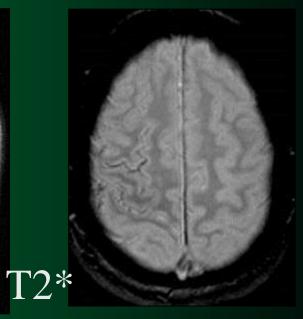
Thrombose veineuse cérébrale

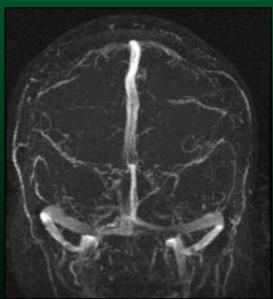


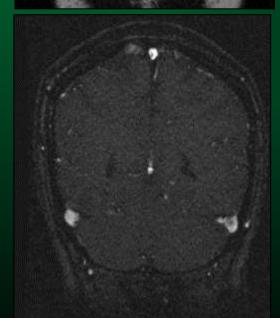
Thrombose veine corticale

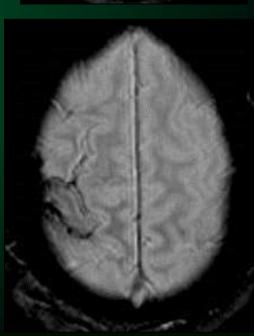






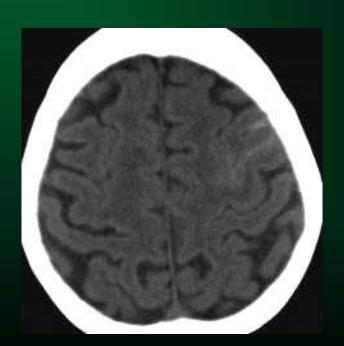


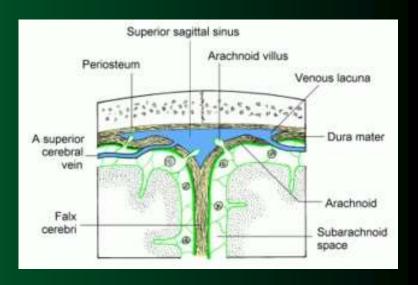




HSA et TVC

- ♦ Présence de sang à la PL (50%) *
- ♦ Cause incertaine :
 - Infarctus veineux hémorragique avec rupture secondaire dans ESA
 - Hyperpression veineuse: rupture de paroi de la veine dans ESA
 - Pendaison, strangulation

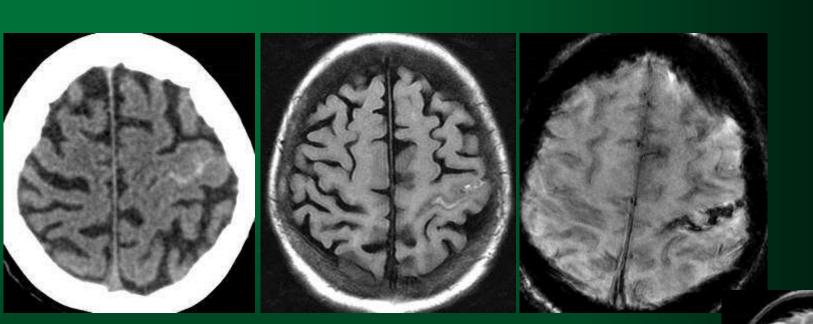




Femme 68 ans gastro, vomissements, puis céphalées J3



70 ans – déficit transitoire Mb Sup gauche

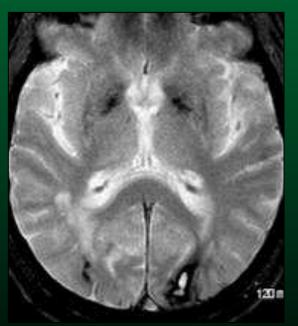


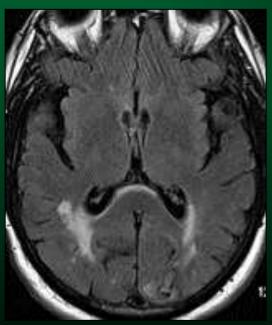
Angiopathie amyloïde

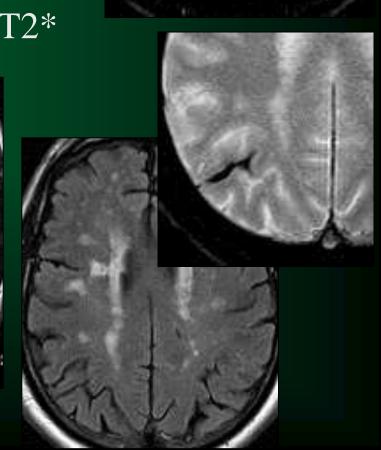
Critères diagnostiques *

- ightharpoonup Âge > 55 ans
- ♦ Hématome lobaire (épargne NGC)
- ♦ Absence d'autre cause de saignement

♦ Présence de microsaignement en T2*

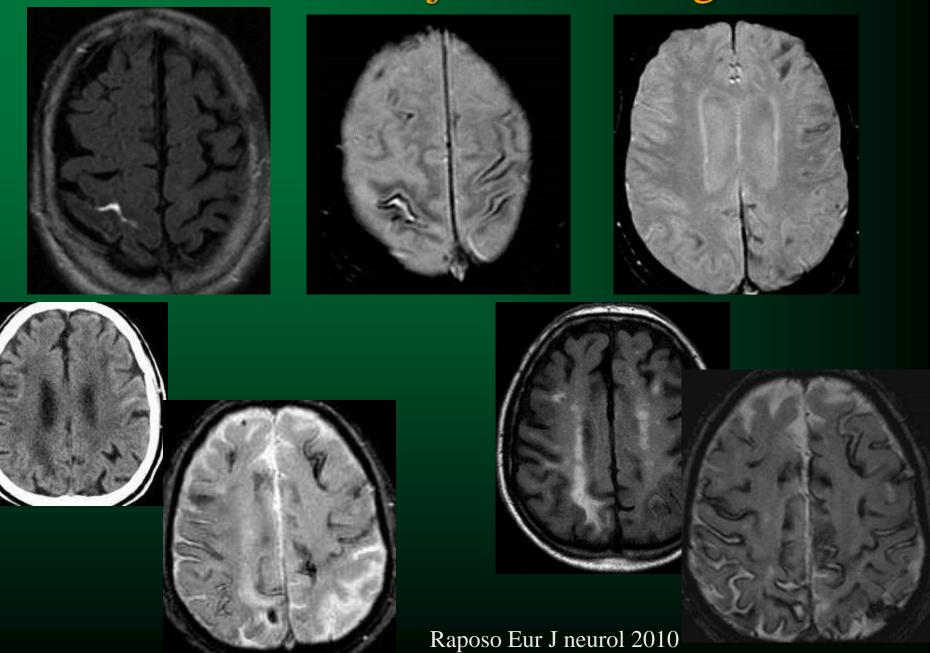




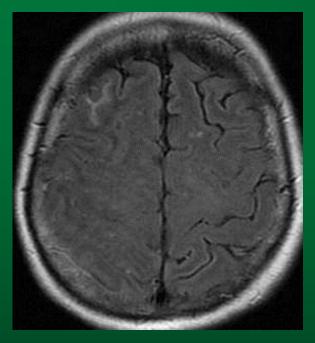


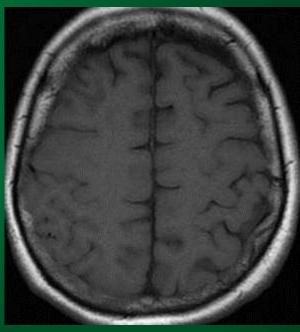
* Smith et al, 2003

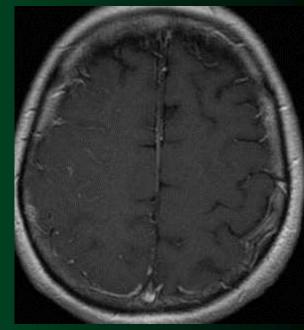
74 ans. Crise bravais-jacksonienne gauche



Chronologie IRM







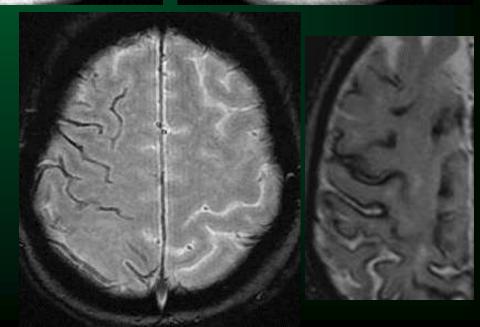
Hypersignal Flair: 1 mois

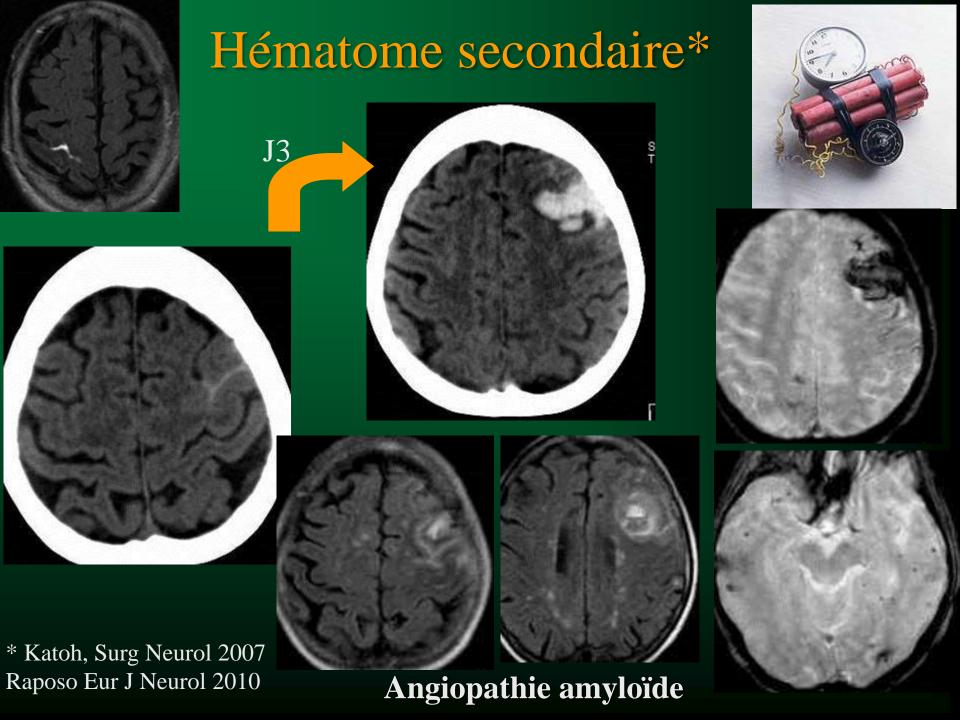
Prise contraste: 1 à 2 mois

Hyposignal T2 *:

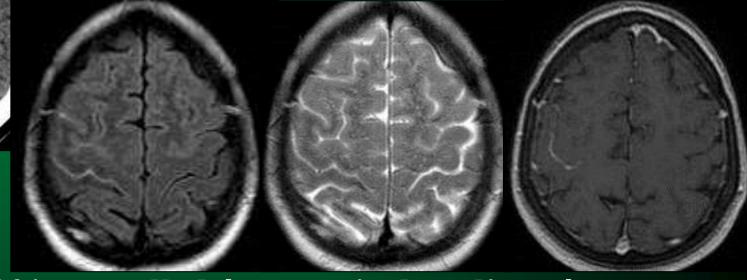
- plein : 2-3 mois

- en rail : au delà

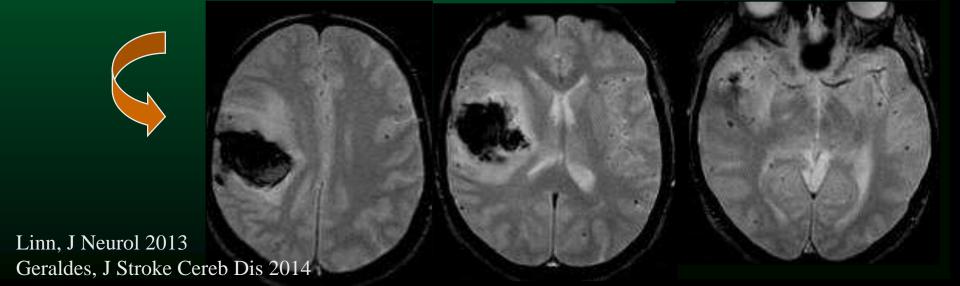




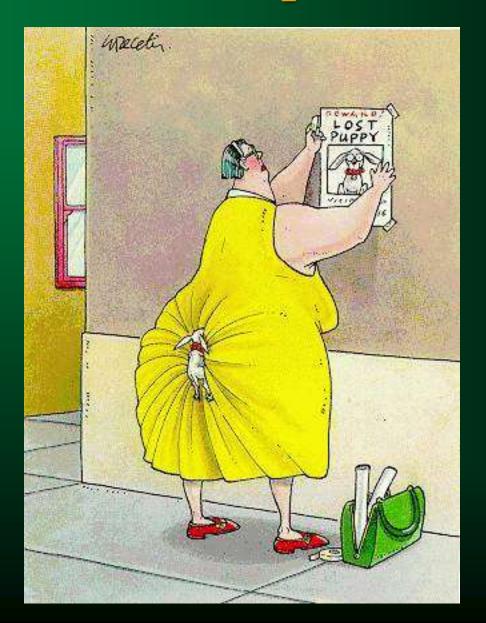
Hématome secondaire



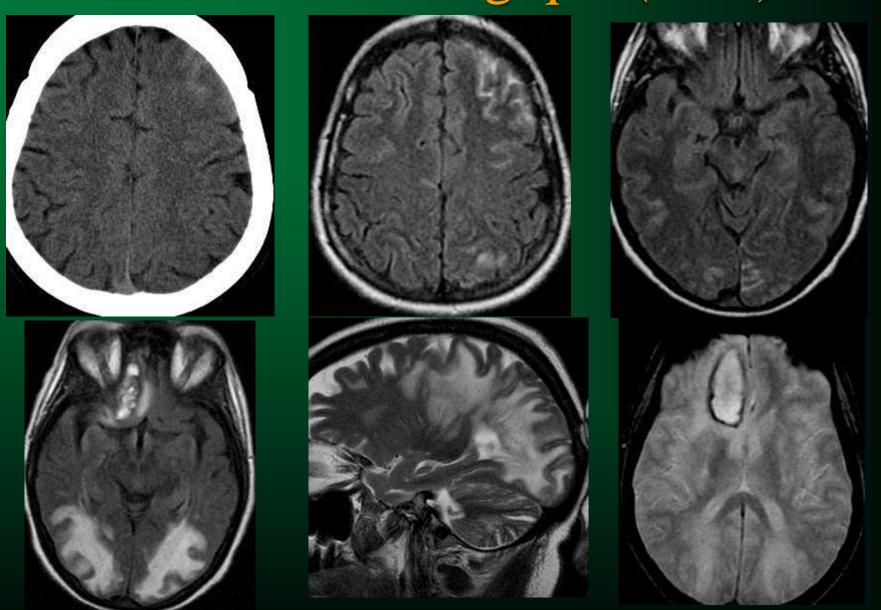
30% nouvelle hémorragie dans l'année



Autres causes plus rares*

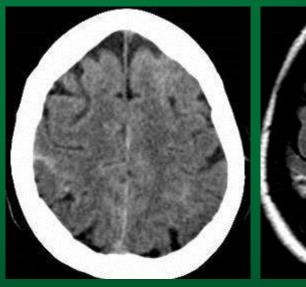


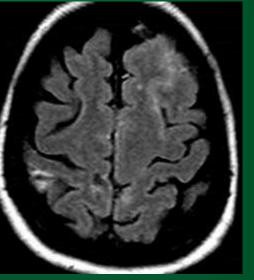
PRES-hemorragique (15%)*

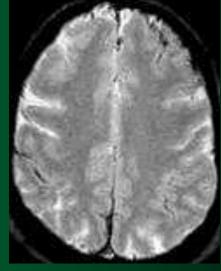


*Sharma, Neuroradiology 2010

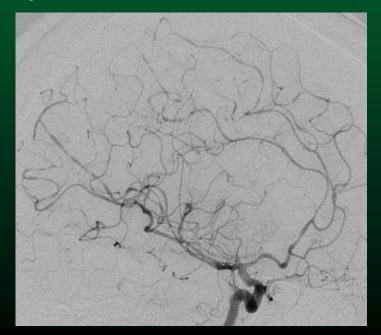
Femme 50 ans, Céphalées aigues

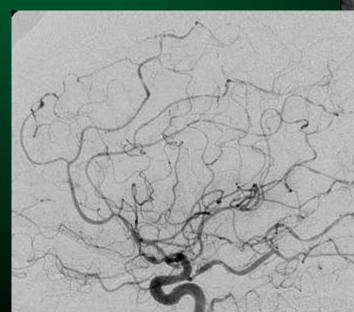






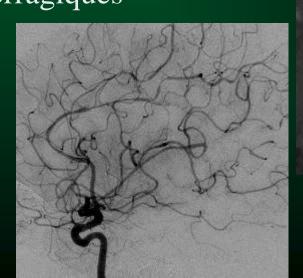






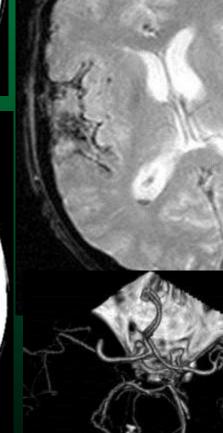
Vasoconstriction cérébrale réversible

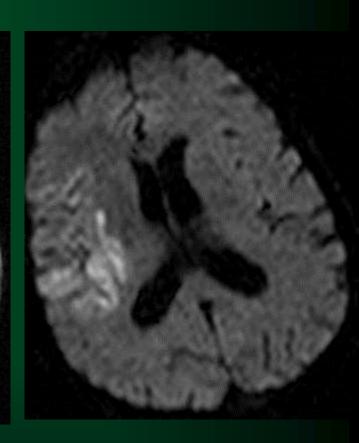
- Regroupe:
 - Angiopathie cérébrale bénigne
 - Angéite du postpartum
 - Vasculopathie secondaire aux drogues (cannabis, cocaine, décongestionnants nasaux)
- Céphalées répétitives en coup de tonnerre
- Avec ou sans déficit neurologique
- Crise comitiale
- Lésions ischémiques ou hémorragiques
- Vasoconstriction multifocale (ARM ou angio)
- Lésions réversibles en 3 mois





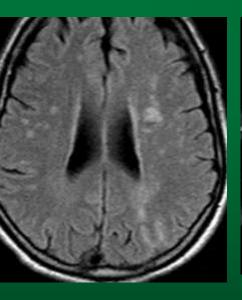
Céphalée. Déficit gauche J2



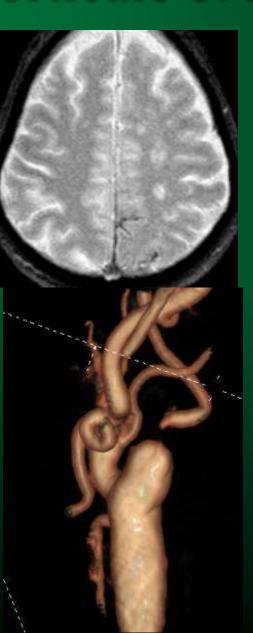


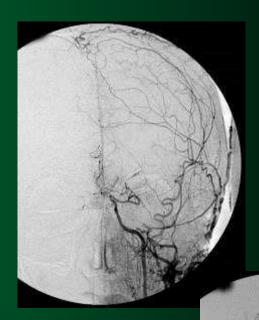
Ischémie + hémorragie = endocardite infectieuse

HSA corticale et sténose artérielle



Sténose bulbe carotidien





Moya-moya



Conclusion

♦ HSA

- Rupture anevrysme
- Périmésencephalique
- Dissection
- Fistule / MAV



- ♦ HSA corticale (angioscan + IRM)
 - Femme jeune, céphalées : Thrombose veineuse
 - Personne agée, AIT : Angiopathie amyloïde
 - Anevrysme mycotique (endocardite)
 - Syndrome de vasoconstriction régressive
 - Encéphalopathie postérieure régressive (PRES)
 - Sténose artérielle (intra/ extracranienne)