



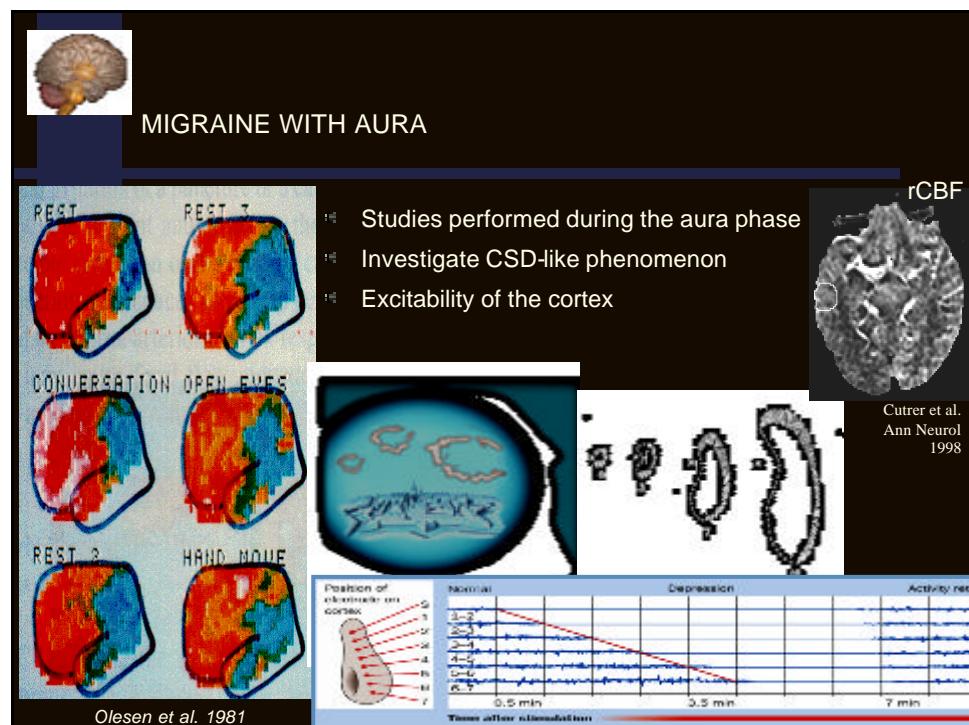
International Headache Society

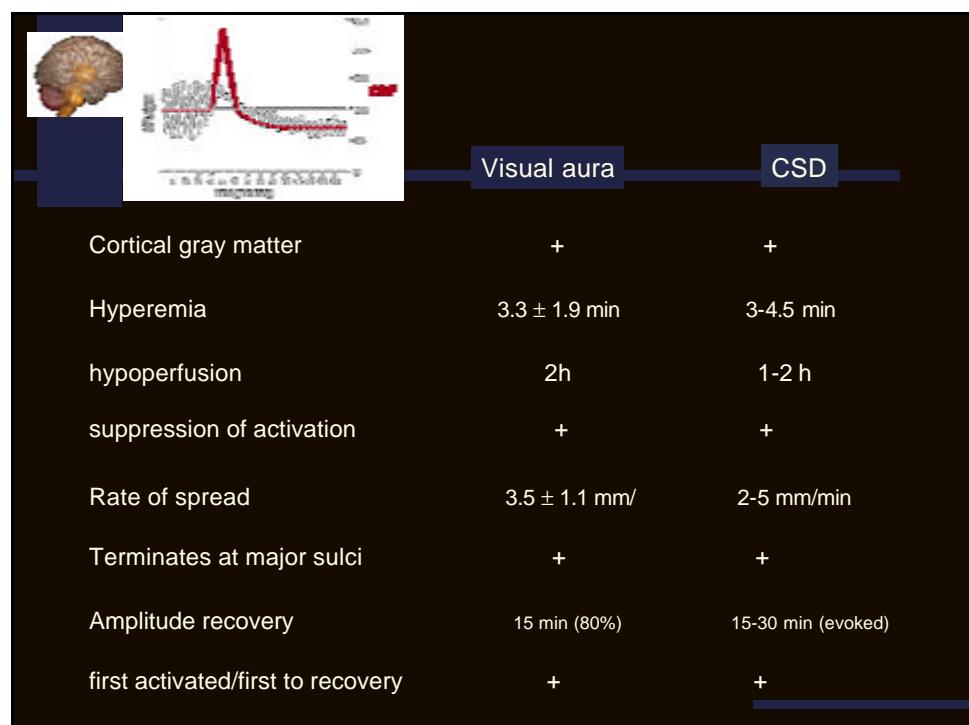
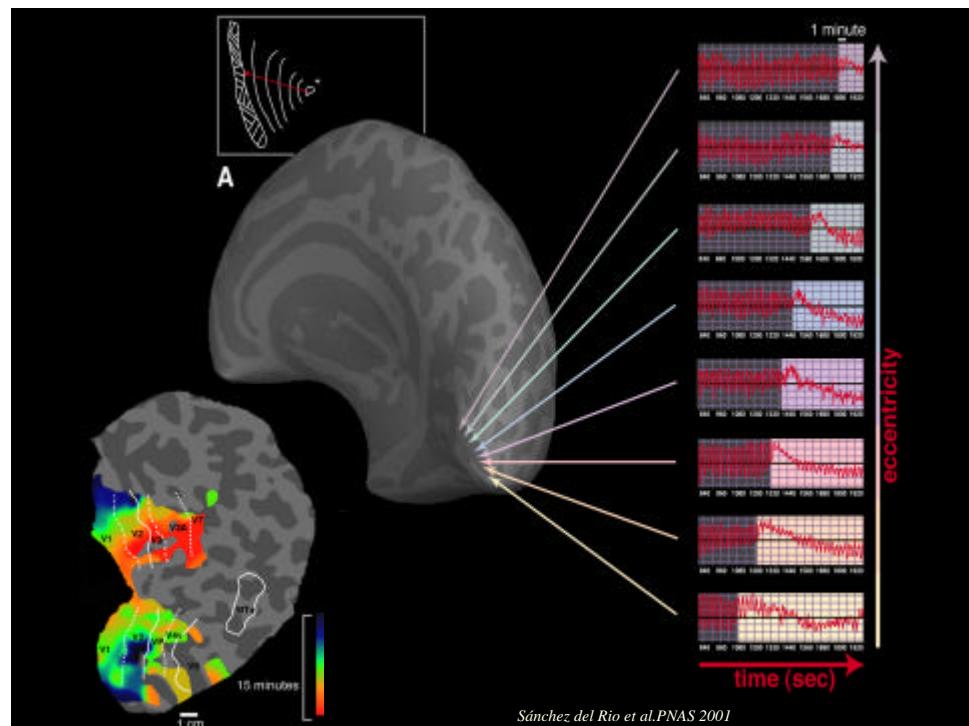
Role of imaging to understand the pathophysiology of headache

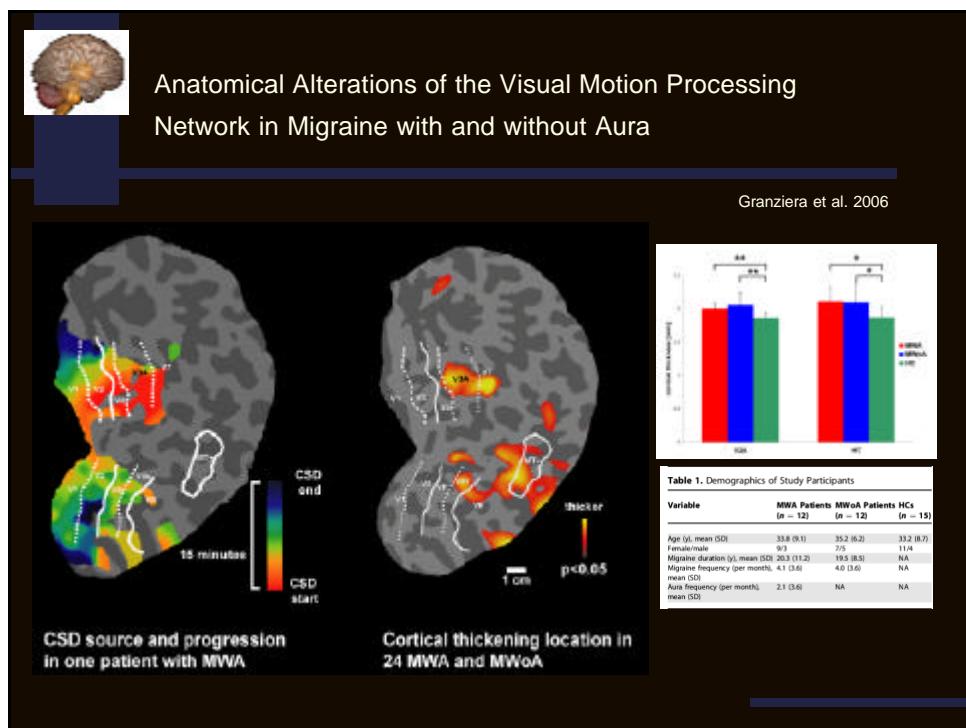
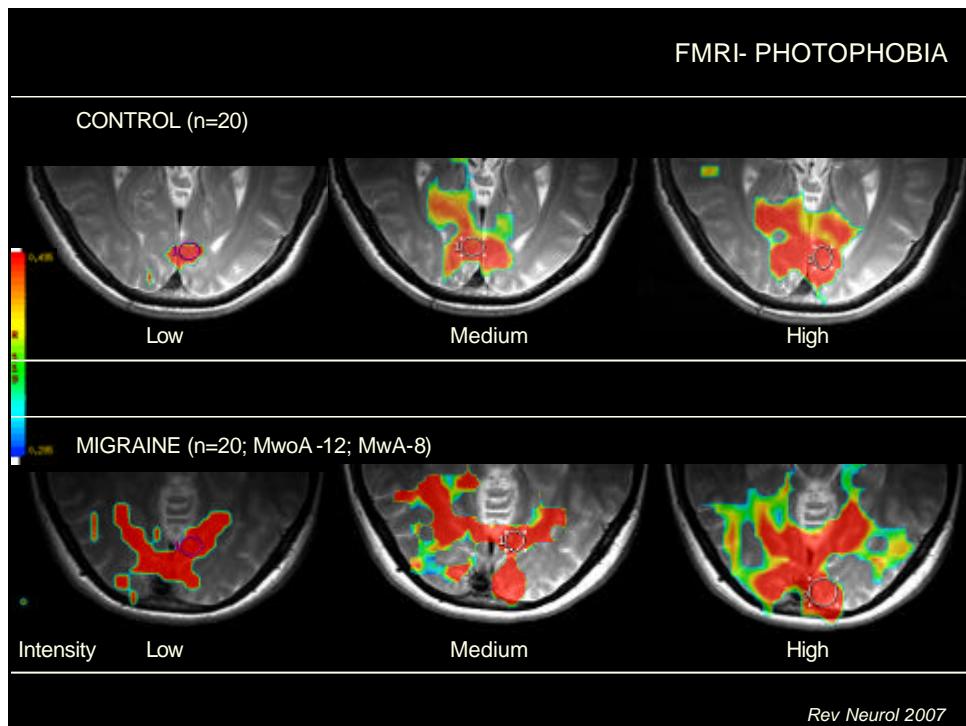
Margarita Sanchez del Rio

Headache program
Hospital Ruber Internacional
Madrid

	1. Migraine
	With Aura
	^{133}Xe -cerebral blood flow
	PWI/DWI
	BOLD
	MEG
	without aura
	$^{133}\text{xenon}$ - cerebral blood flow
	PWI
	BOLD
	PET
	2. Cluster headache
	PET
	Voxel based morphometry
	3. Hemicrania Continua- PET
	4. Hemicrania paroxistica- PET
	5. SUNCT-BOLD





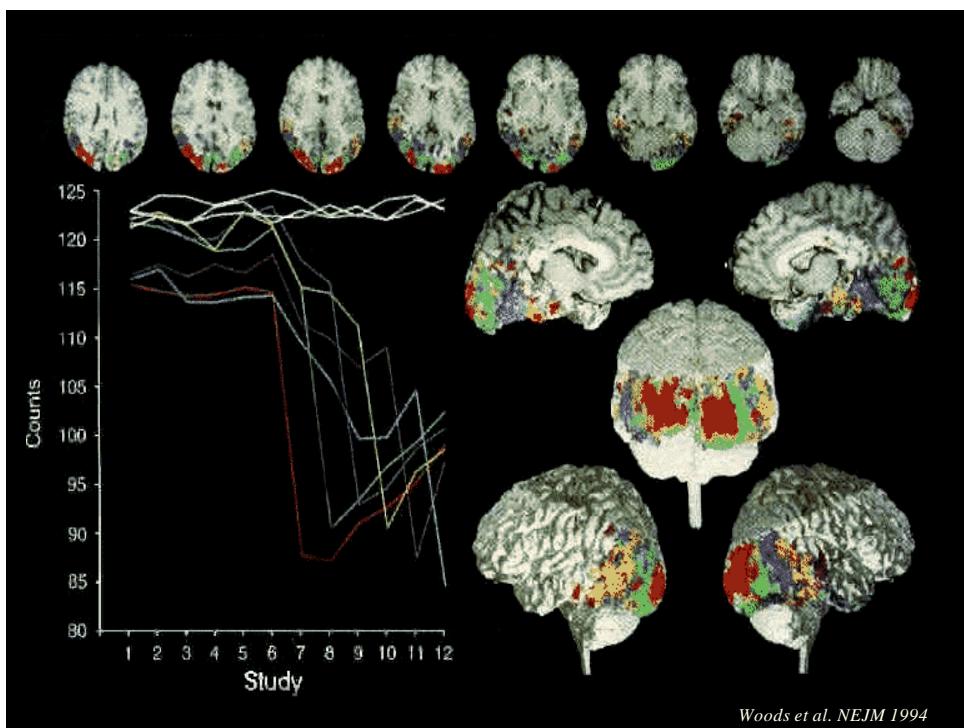
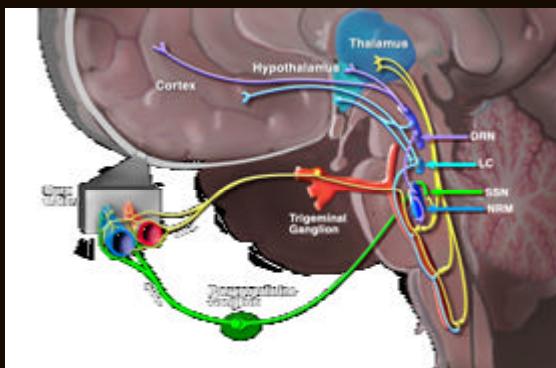


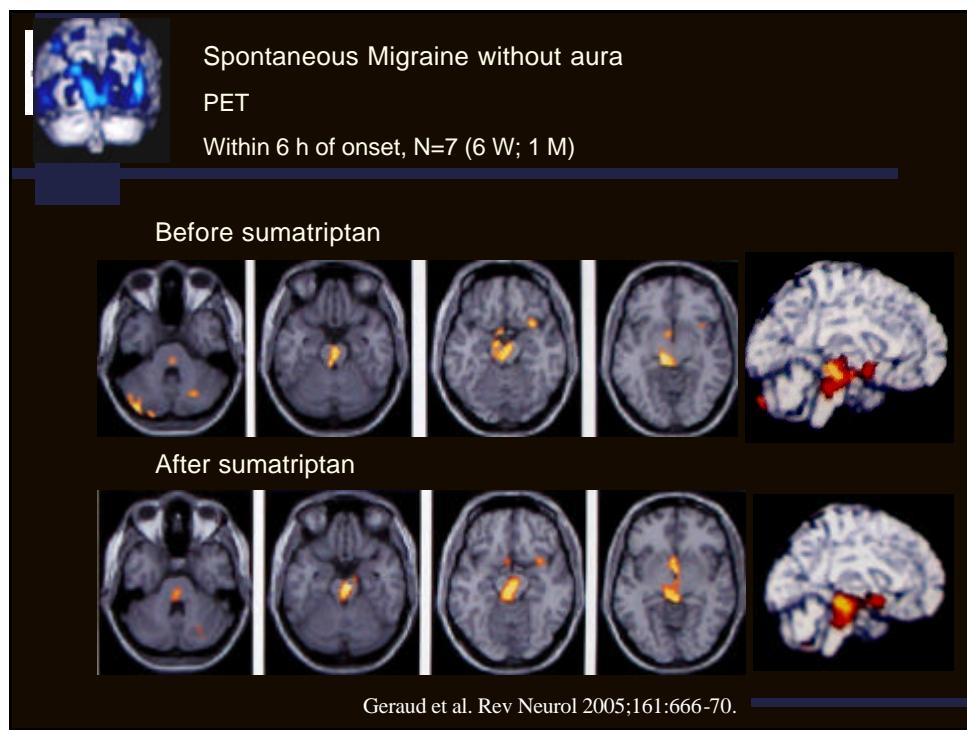
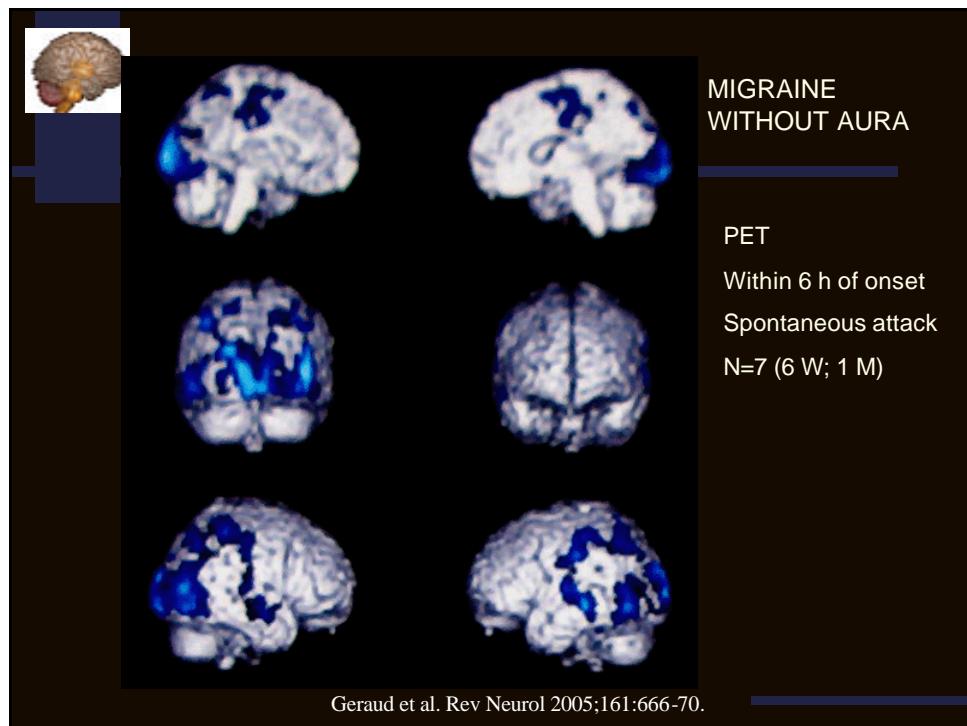


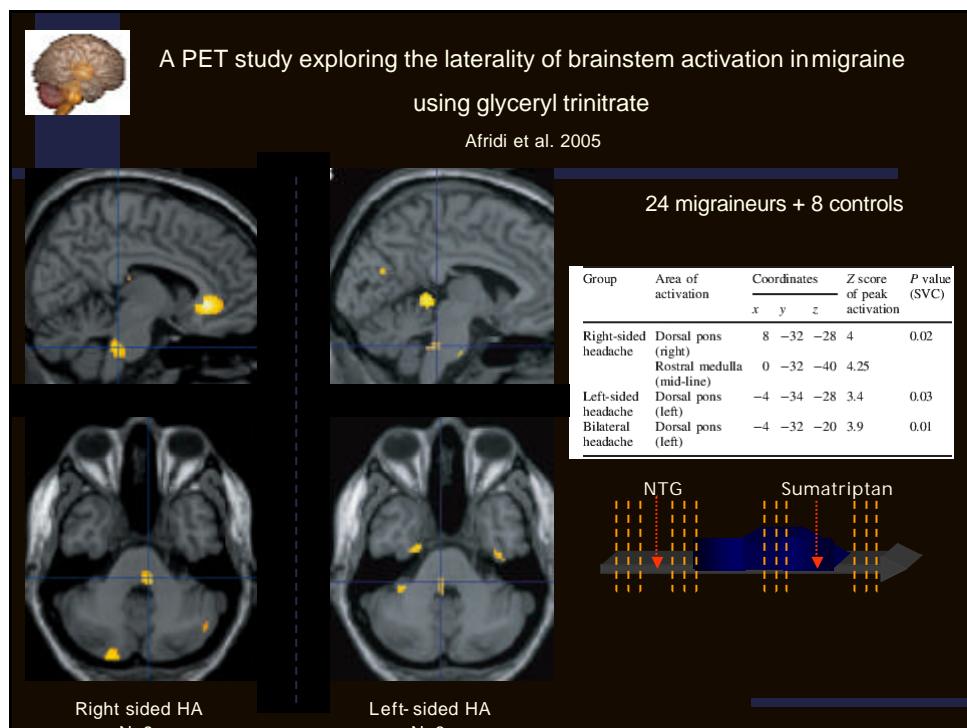
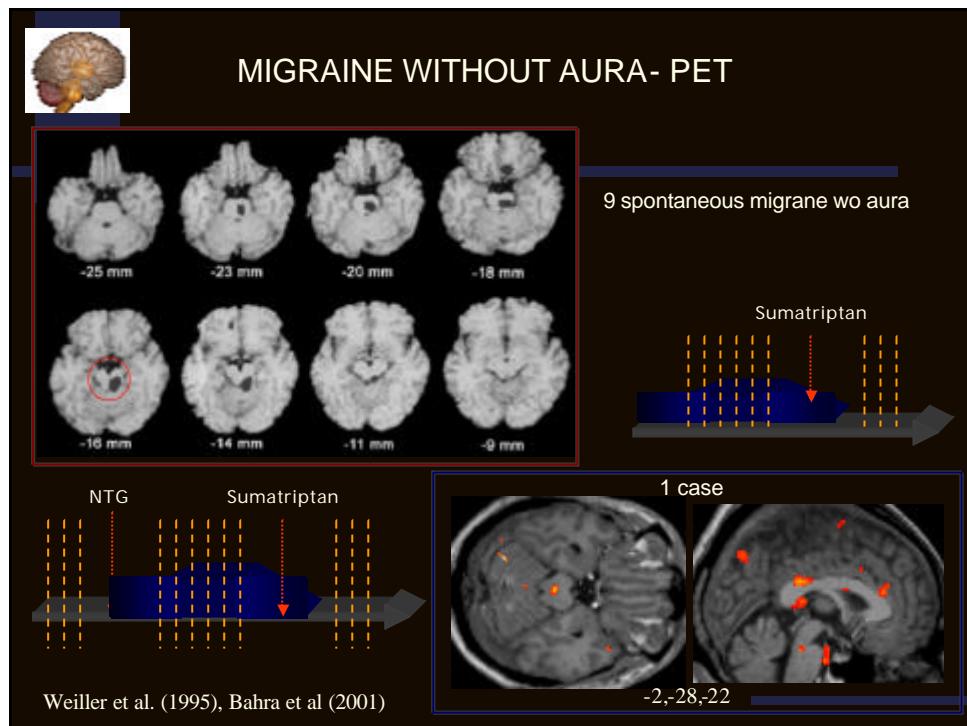
MIGRAINE WITHOUT AURA

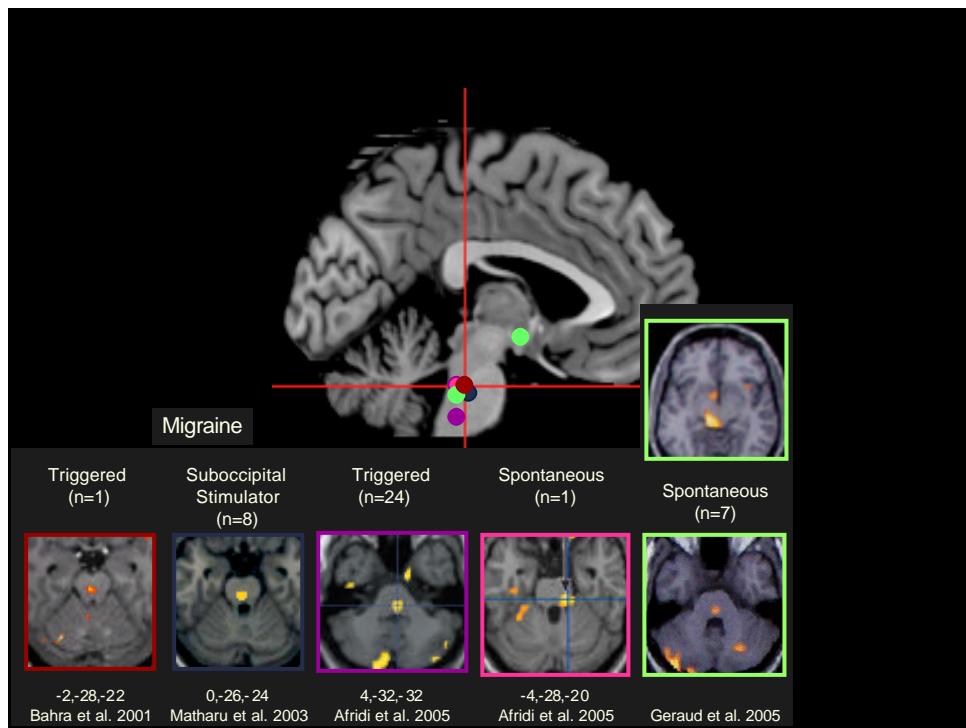
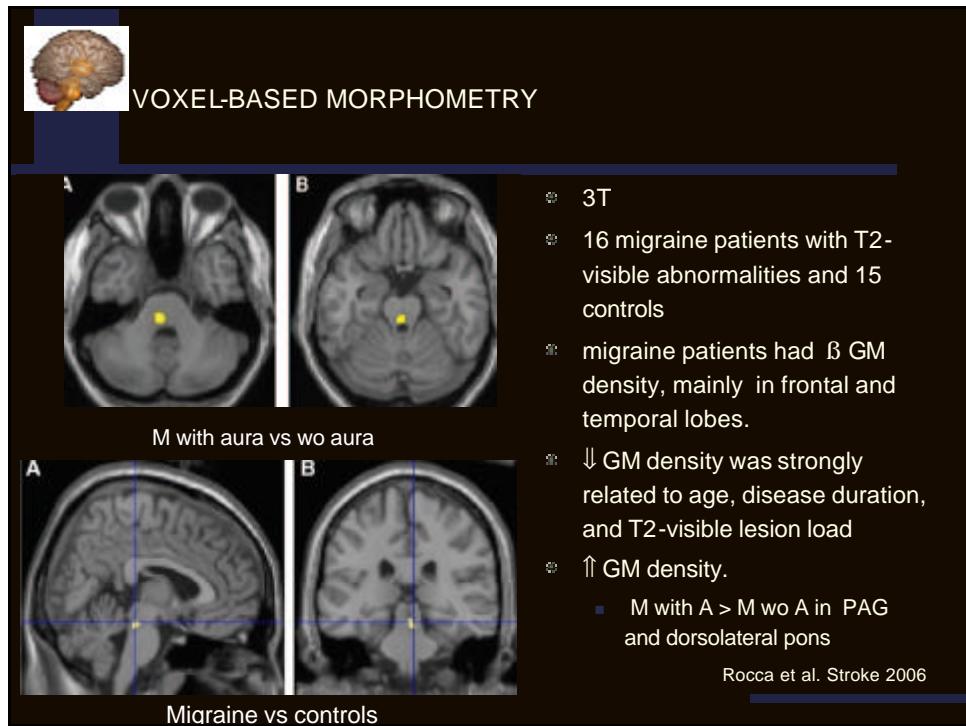
- Goal:

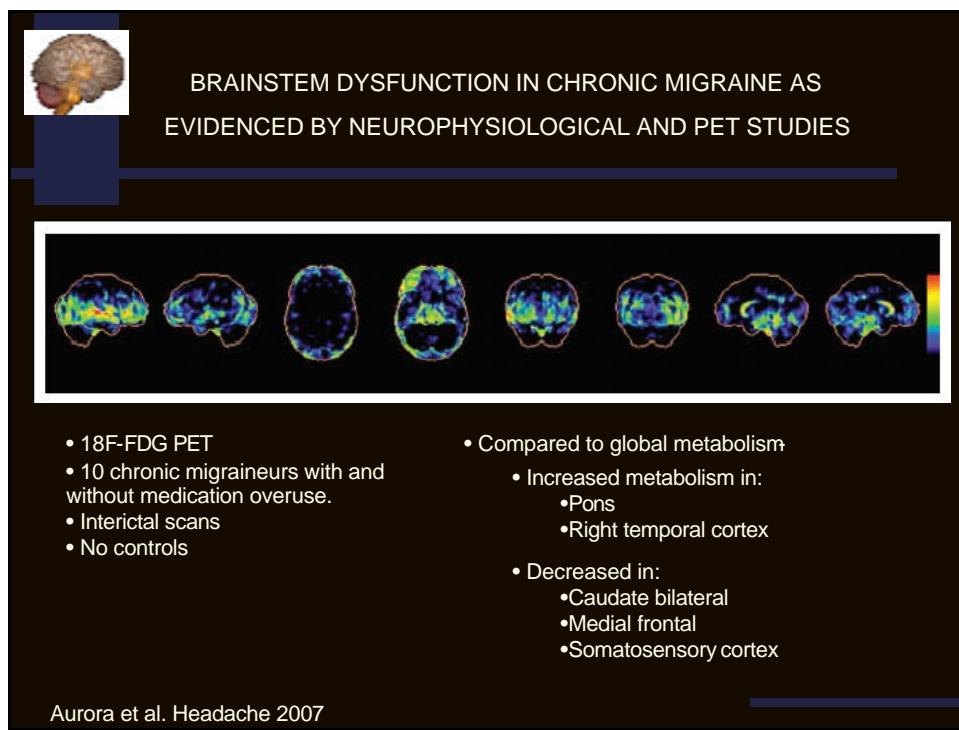
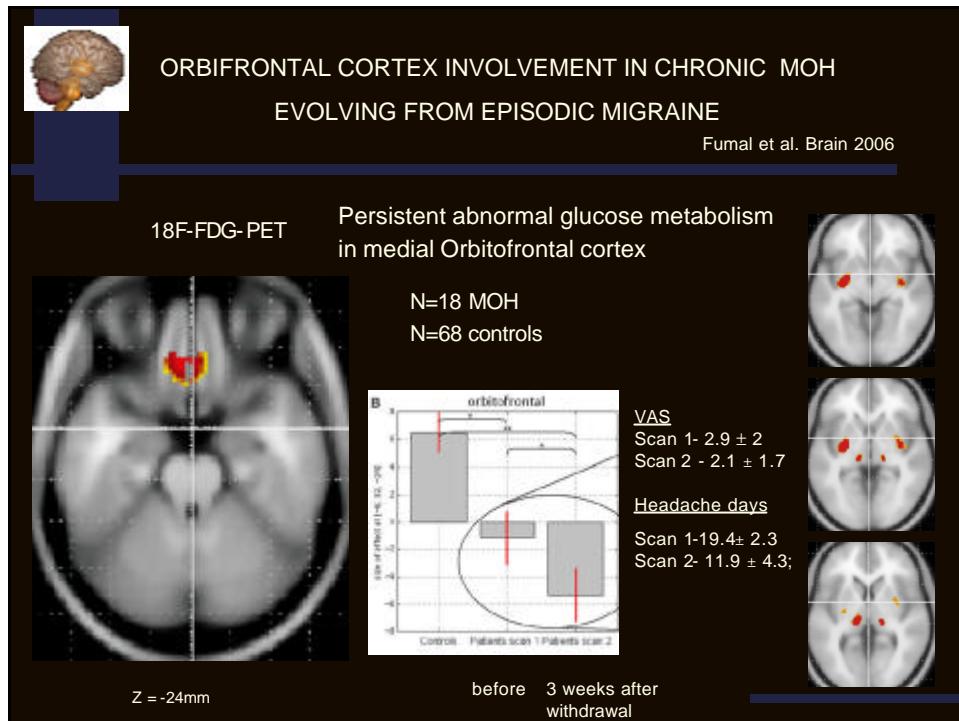
- Cortex: investigate blood flow changes like in migraine with aura
- Determine the role of subcortical structures









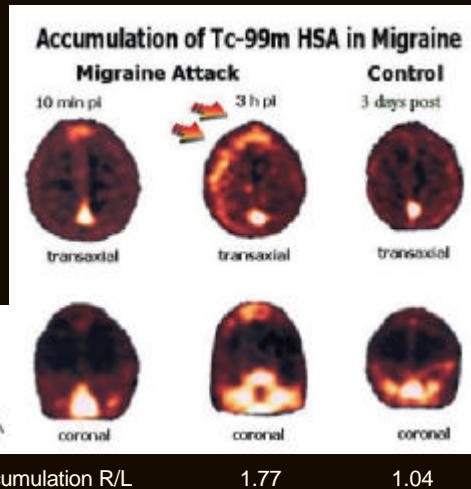




IMAGING INTRACRANIAL PLASMA EXTRAVASATION IN A MIGRAINE PATIENT

Knotkova & Pappagallo. Pain Medicine 2007

- SPECT-(Tc-99m) human serum albumin
- 46-y.o. Woman suffering Migraine w/o aura for > 20 years.
- First scan- 3h after onset. Pain intensity 5/10
- 2nd scan- 3h interval. Sumatriptan 6mg sbc given prior to scan.



1. Migraine

With Aura

^{133}Xe -cerebral blood flow

PWI/DWI

BOLD

MEG

without aura

^{133}Xe -cerebral blood flow

PWI

BOLD

PET

2. Cluster headache

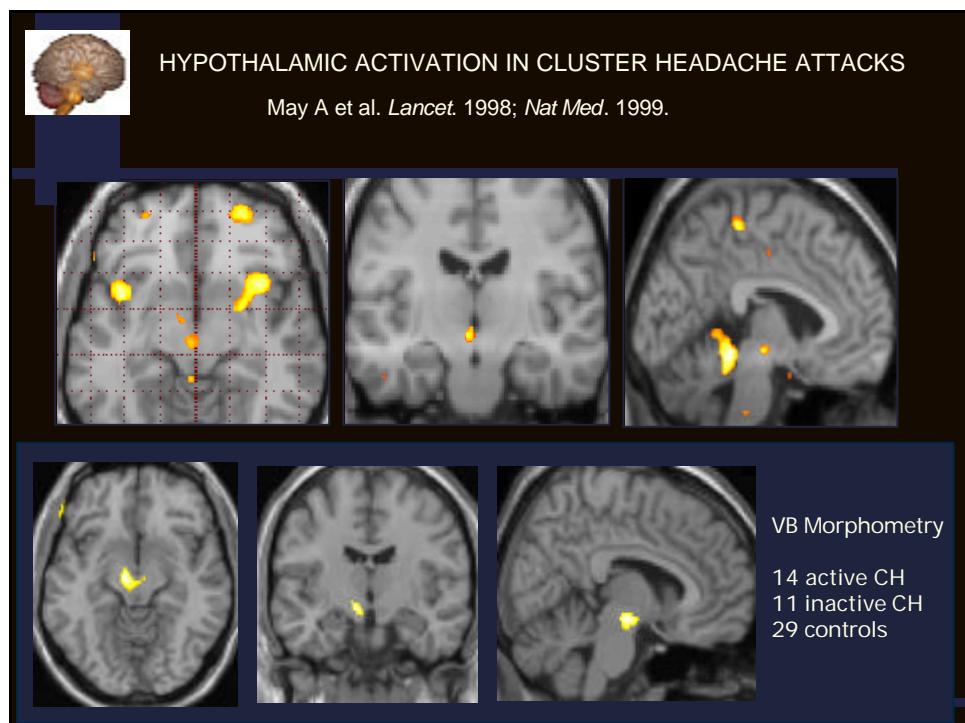
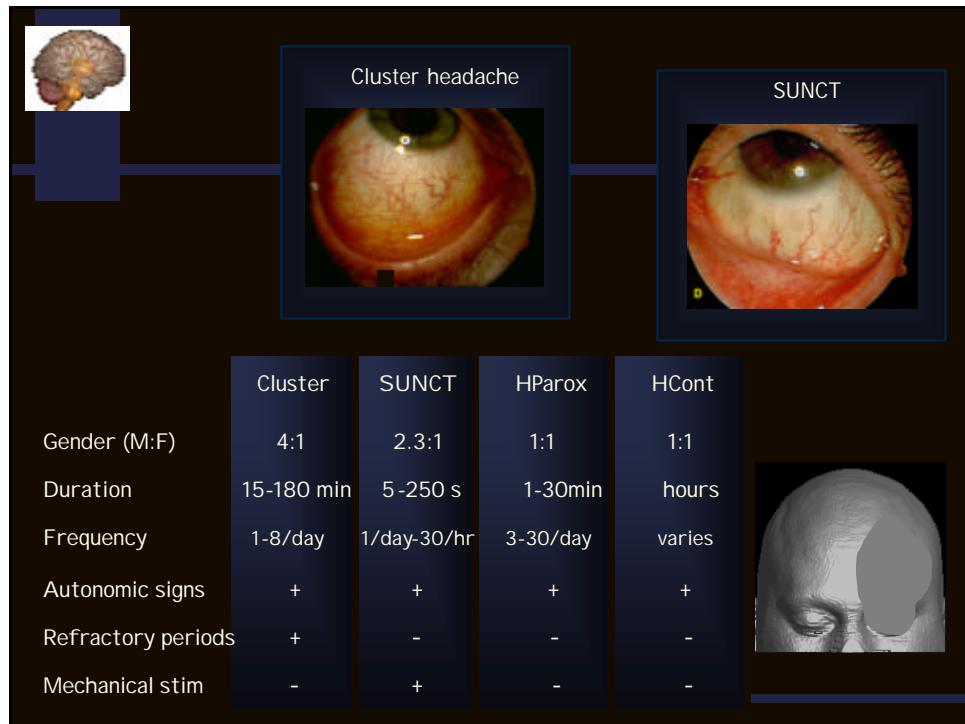
PET

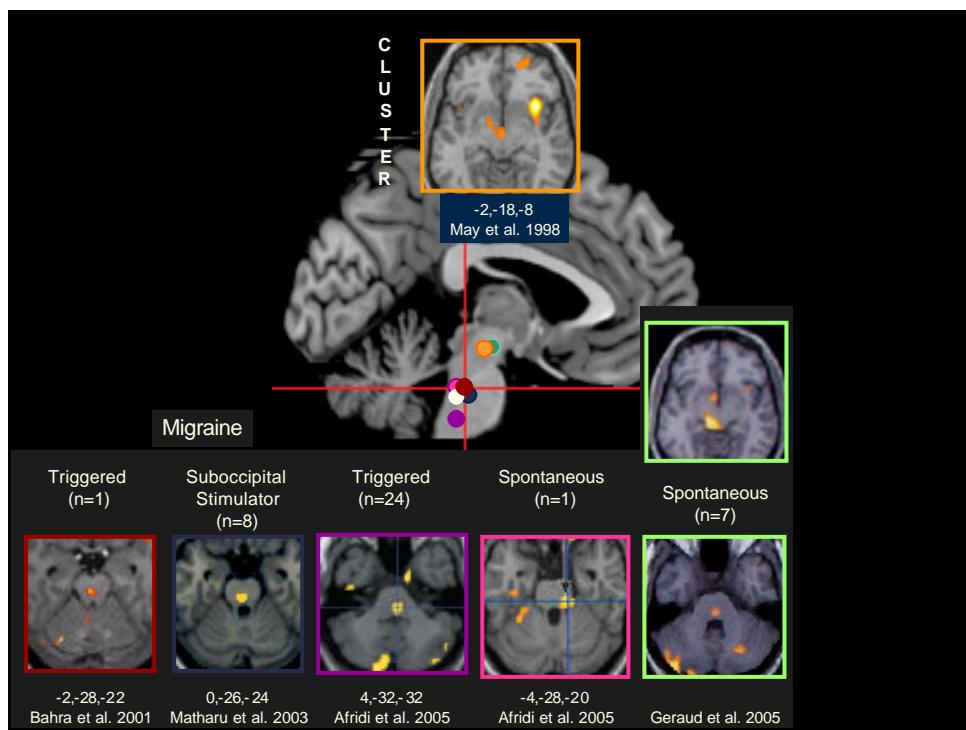
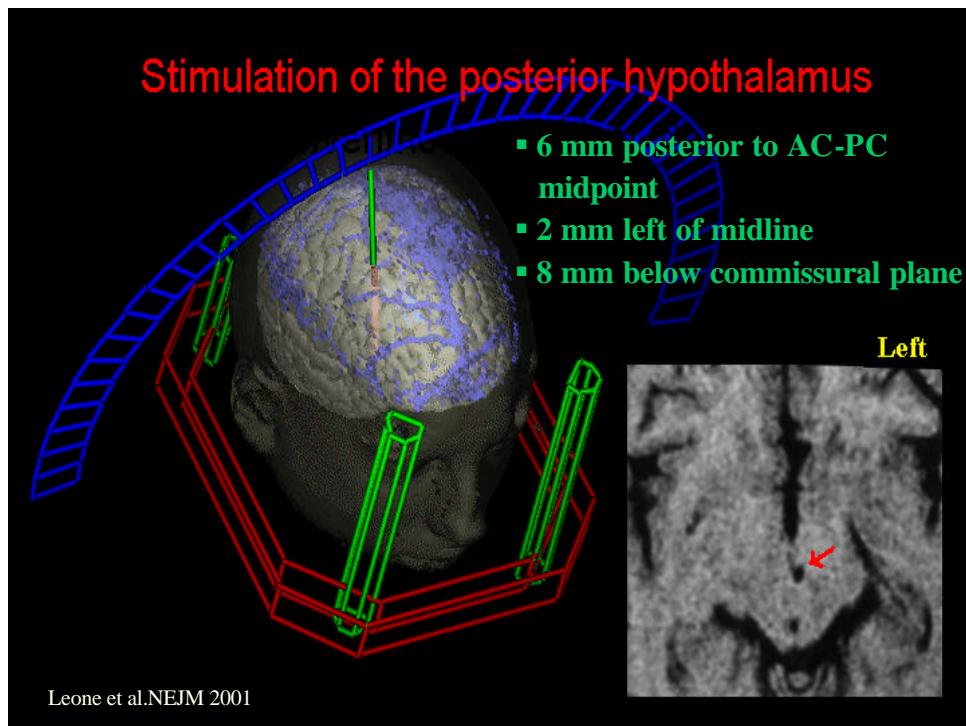
Voxel based morphometry

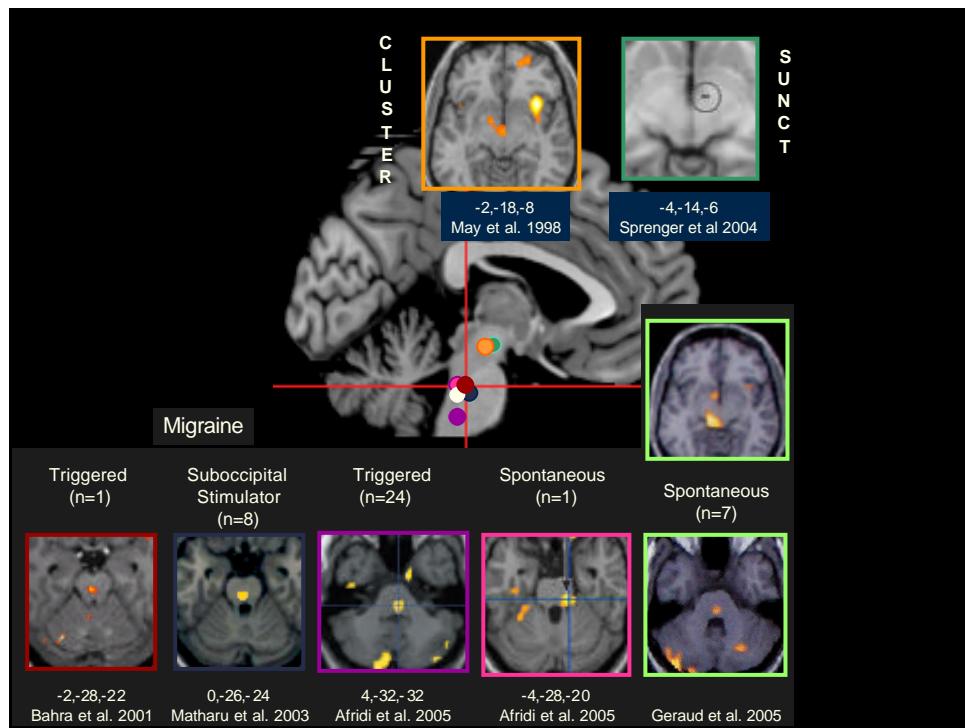
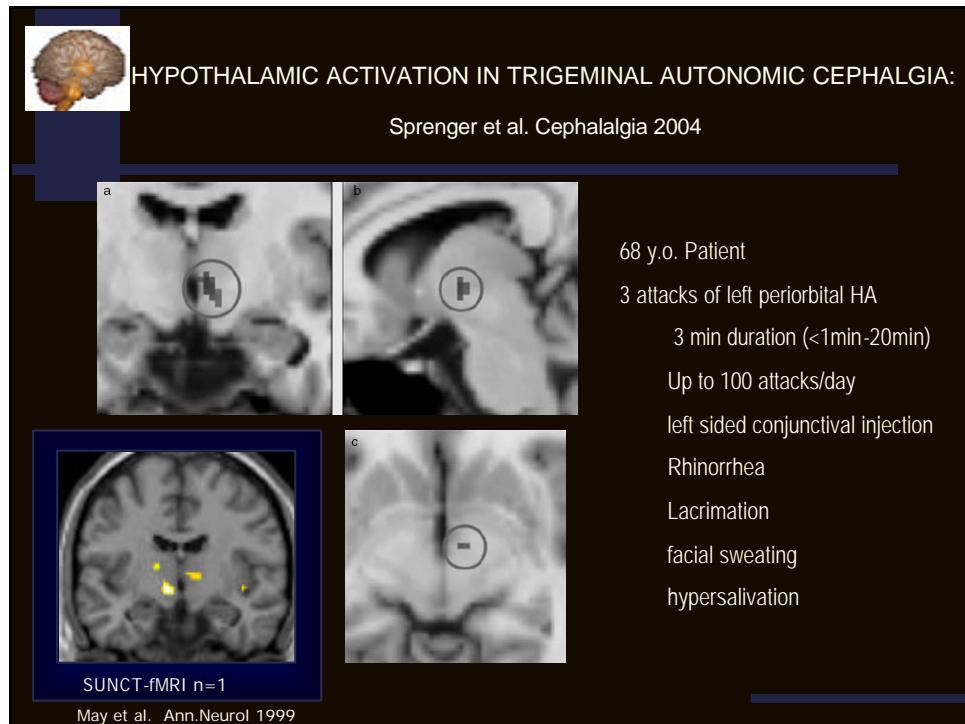
3. Hemicrania Continua- PET

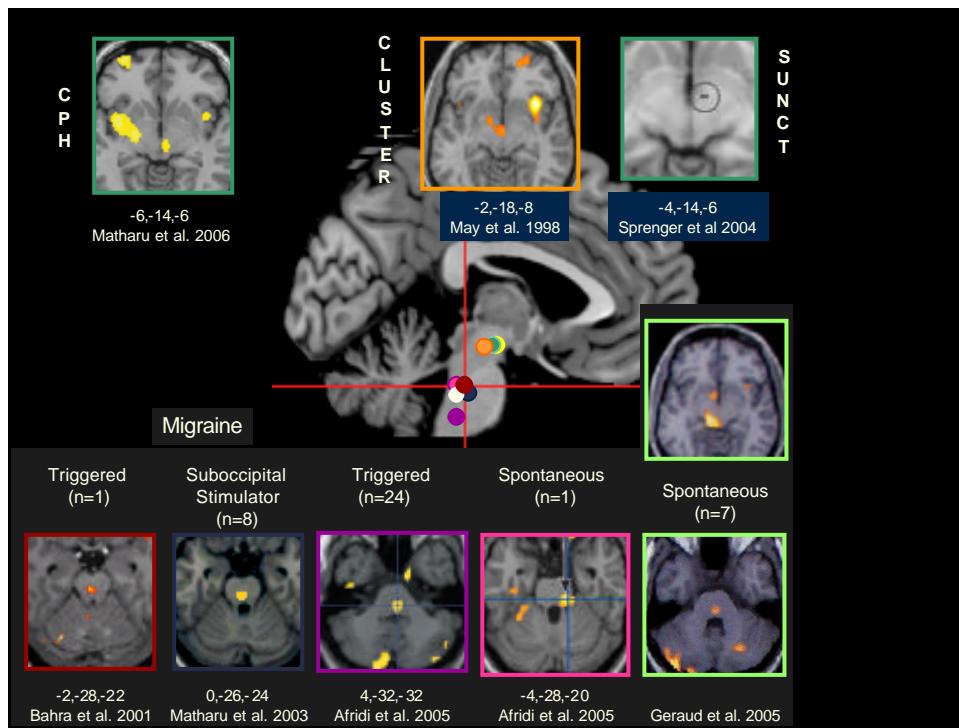
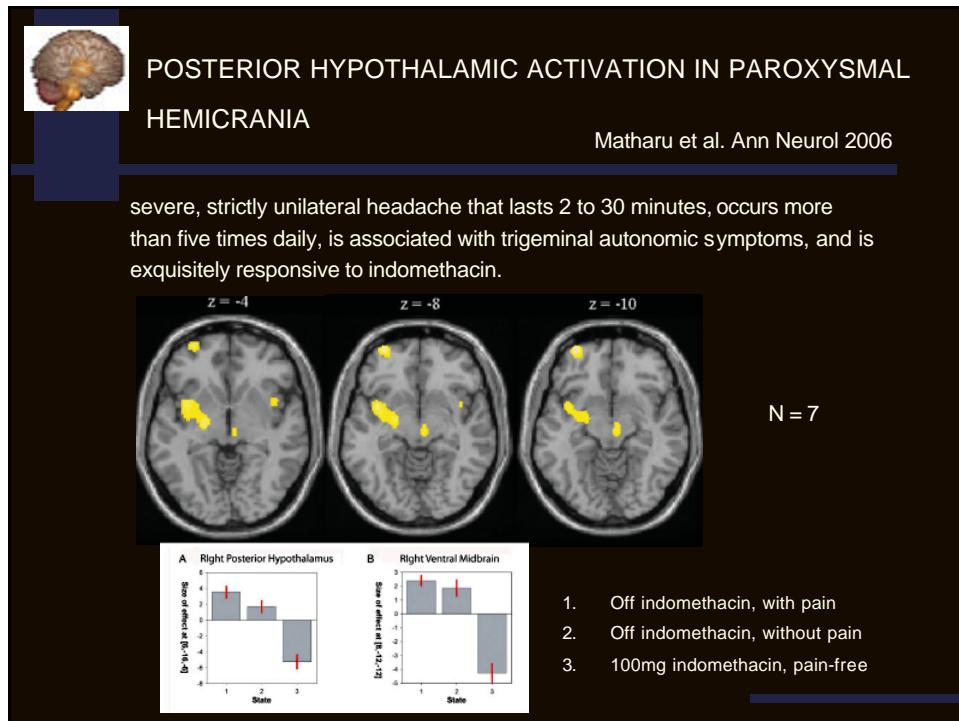
4. Hemicrania paroxistica- PET

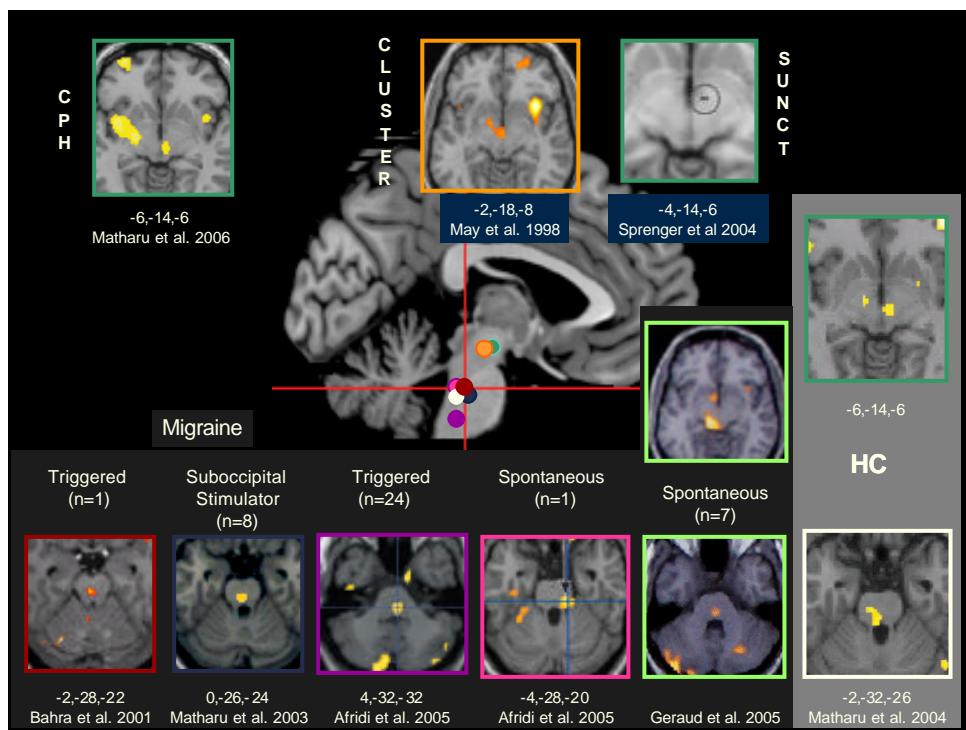
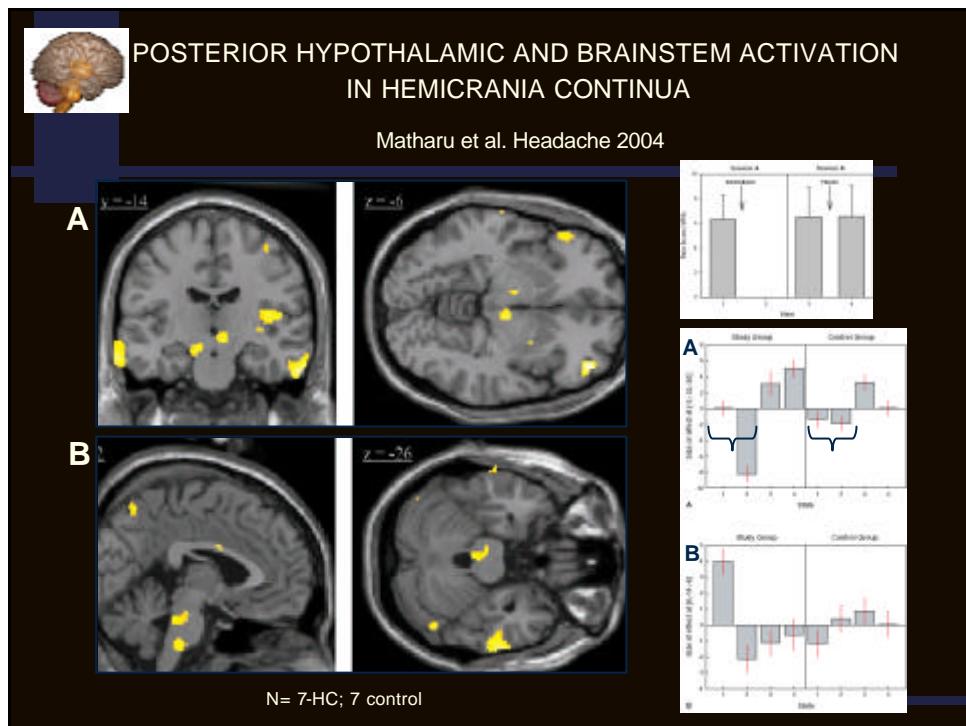
5. SUNCT-BOLD











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