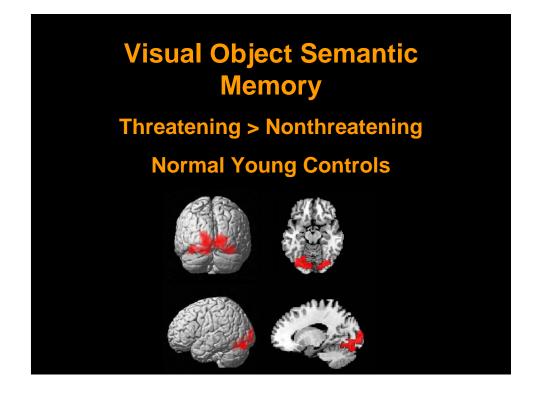
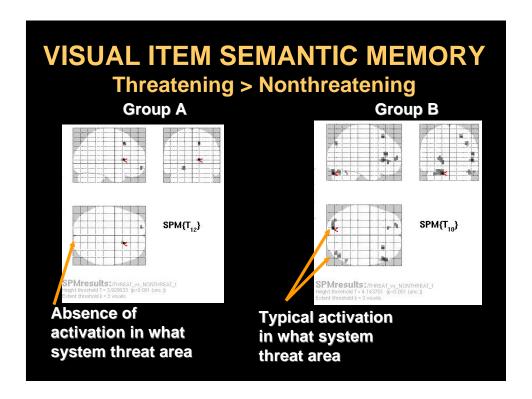
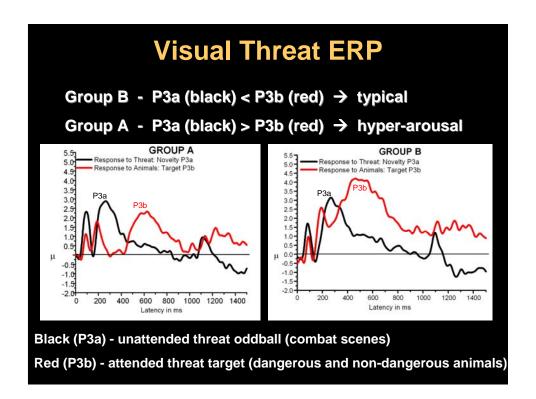
## Emotional Memory Circuit Project

- Hyperarousal to emotional stimuli is a reported problem
- Patients have met criteria for PTSD but acknowledge that they don't have it
- They have the hyperarousal component but not the traumatic, life threatening experience or "flashback"
- We term this "PTSD without the T"
- Assessed hyperarousal to emotional stimuli on Mississippi PTSD scale
- Threat stimuli fMRI and ERP studies also conducted







## **Conclusions**

- Significant difference with more reported hyperarousal to threat in Group A (p < .0001)</li>
- Absence of typical activation in visual threat memory area for Group A
- Hyperarousal P3 response to all threatening stimuli, not just combatrelated for Group A

## **Implications**

- Implication is that amygdala is overresponsive or gating system to amygdala is "leaking" (orbitofrontalamygdala circuit)
- Further delineate the disrupted aspect of mechanism
- Therapeutic will focus on these targets