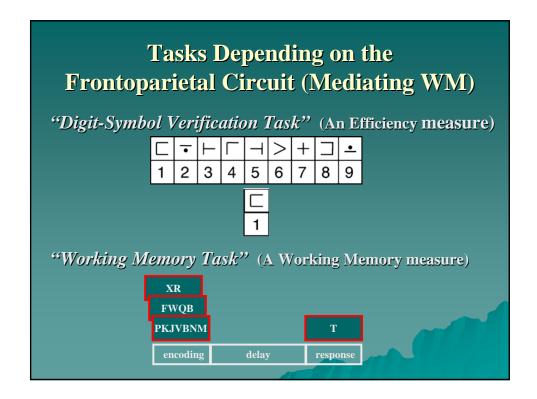
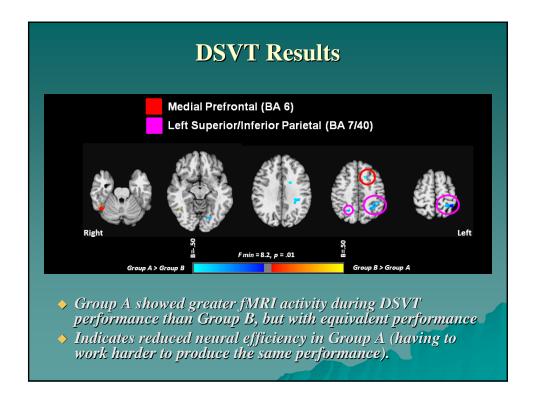
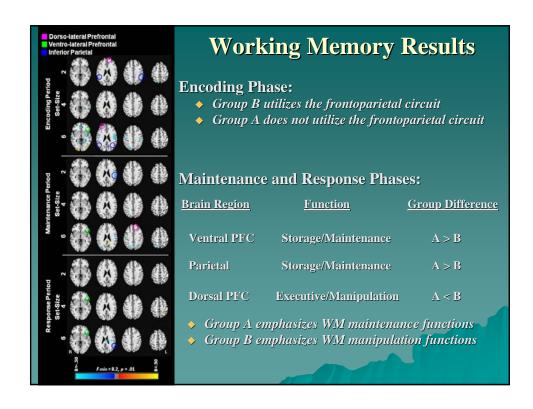
Prefrontal Function in Gulf War Veterans Task Order 4-12

- Commonly reported symptoms in GW illness:
 - Impaired concentration
 - Impaired executive Working Memory (WM) functions
- → These symptoms may be due to:
 - Cholinergic system damage
 - Disproportionately affects the frontoparietal circuit, which is known to mediate working memory.







Importance of Results

- ◆ Assuming Group A is the ill group, their disease has led to:
 - Inefficient memory processing (from DSVT)
 - Lack of engagement of the frontoparietal circuit (the area usually involved in WM)
 - More reliance on Ventral Prefrontal Cortex (PFC) and Parietal areas (storage/maintenance processes)
 - Instead of Dorsal PFC (executive processes)
- Overall, the frontoparietal circuit that allows for efficient and effective WM processes is compromised, leading to engagement of compensatory processes.