



# Have you had a concussion?

## *Volunteers NEEDED for a brain imaging study*

Researchers at the National Institutes of Health (NIH) are looking for volunteers to participate in a research study at the Clinical Center at NIH in Bethesda, MD. The purpose of this study is to gain a better understanding of which parts of the brain are involved in controlling our rapid responses. The ability to make a quick response can be significantly affected after brain injury. Volunteers will be asked to perform simple tasks during brain scans (functional magnetic resonance imaging or fMRI) and/or non-invasive stimulation of selected brain areas. The information collected from the study will allow us to determine which parts of the brain are important for rapid responses and to what extent the function of these brain areas may be affected after brain injury. This is a research study. It does not provide any treatment. There is no cost for participation.

### **You may qualify if you:**

- ✓ *Are between 18-40 years old*
- ✓ *Have had a concussion treated in a hospital/clinic*
- ✓ *Are able to perform simple tasks with full attention for at least an hour*
- ✓ *Have no history of epilepsy*

### **This study involves:**

- ✓ *Out-patient visits, 3 times, 2-3 hours per visit*
- ✓ *Magnetic resonance imaging (fMRI/MRI), and/or non-invasive stimulation of brain areas*
- ✓ *Performing simple tasks*

You will be compensated for your time. We will arrange and pay for travel if needed.

**Interested? Call (301) 443-4366 or (301) 402-7968**

**Email: Dr. Benjamin Xu: [benxu1@mail.nih.gov](mailto:benxu1@mail.nih.gov)**

**Research Protocol: 10-N-0185 (<http://www.clinicaltrials.gov>)**

**Principal Investigator: Eric Wassermann, M.D.**

NIH CNS IRB approval date: 04/01/2011; USUHS IRB approval date: 04/20/2011

**National Institute of Neurological Disorders and Stroke  
National Institutes of Health, Bethesda, MD**