

# Brain Imaging of Language and Cognitive Skills after Stroke

## Center for Brain Plasticity and Recovery

Georgetown University Medical Center & MedStar National Rehabilitation Hospital

### Purpose

Our studies use functional Magnetic Resonance Imaging (fMRI) to investigate how brain functions are reorganized in children and adults who have had strokes.



### What is fMRI?

**Magnetic Resonance (MR) Imaging** allows us to take detailed pictures of your brain without using invasive procedures.

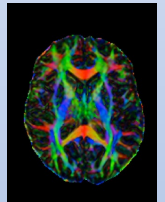
**There is absolutely no radiation exposure!**

In order to see how your brain processes language and other cognitive skills, we take **functional MR** images while you play some computer games. This allows us to observe patterns of brain activity as you participate in the games.

### What would I be asked to do?

Participation usually involves three visits to the Georgetown University Medical Center campus (travel expenses paid). There are two parts to our studies:

- A. **Evaluation:** We will assess some of your language, thinking, and motor skills.
- B. **fMRI:** We will take pictures of your brain while you play games in up to three scanning sessions, each less than one hour long.



### If you choose to participate:

- You will help us to understand how stroke affects language, thinking, and motor skills.
- You will help us to gather information that may improve treatments to help stroke patients recover better.
- You will be paid for your time.

### Who can participate?

You may be eligible if you are:

- ✓ Age 11 and up: teens & young adults welcome!
- ✓ Able to undergo functional MRI while awake and playing computer games,

**AND EITHER** had a stroke more than a year ago  
**OR** are a sibling of similar age

## Center for Brain Plasticity and Recovery



Elissa Newport, PhD  
Director



Anna Greenwald, PhD  
Research Assistant Professor



Rachel Galginaitis, MS  
Center Manager

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### Contact:

Margot Giannetti McCloskey  
Clinical Study Coordinator  
(202) 877-1071  
Margot.Giannetti@MedStar.net



Catherine Chambers  
Senior Research Specialist  
(202) 687-3727  
Catherine.Chambers@georgetown.edu

