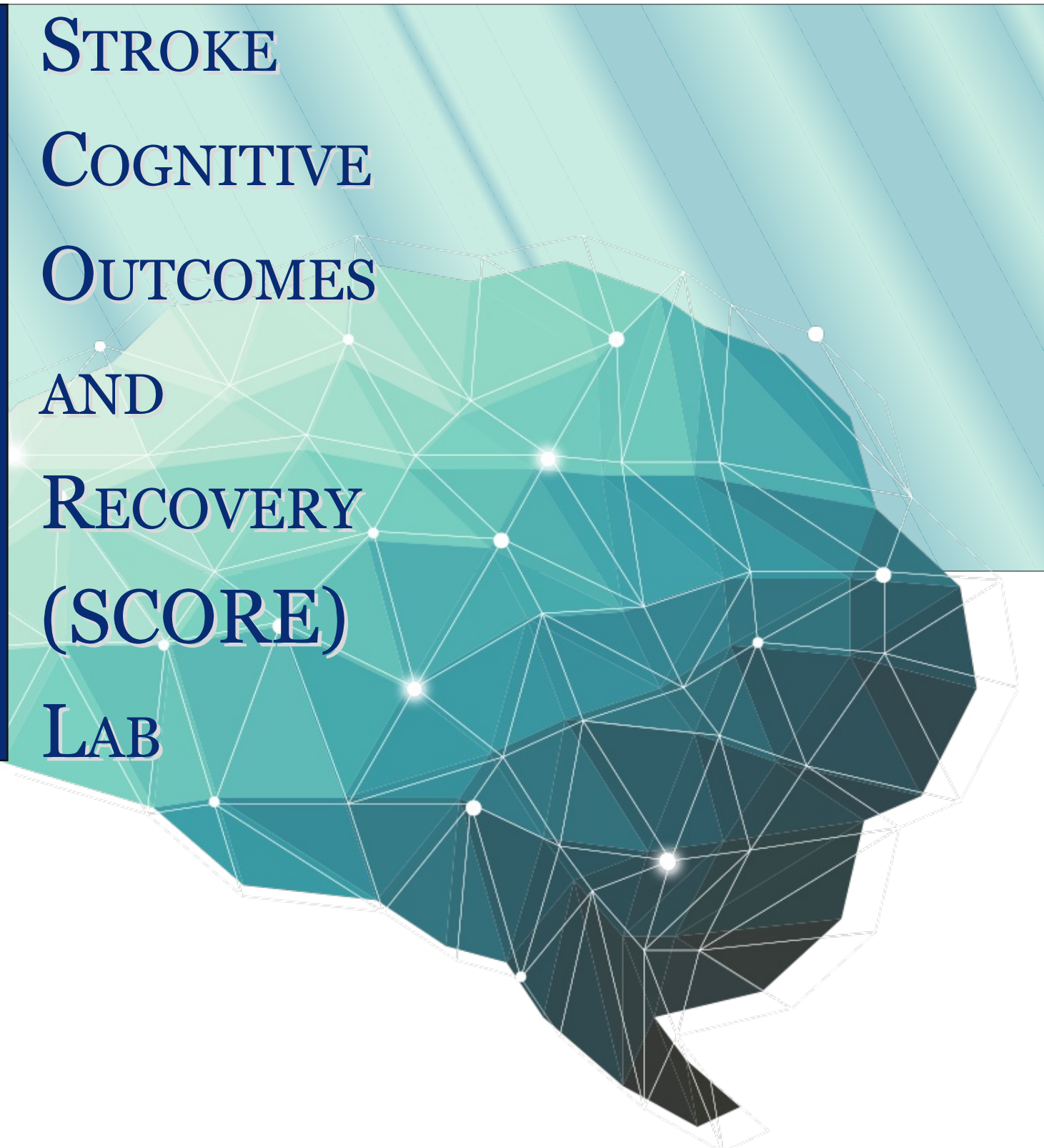
JOHNS HOPKINS
SCHOOL *of* MEDICINE

STROKE COGNITIVE OUTCOMES AND RECOVERY (SCORE) LAB



Purpose of the SCORE Lab

The main goals of the SCORE Lab are to better understand stroke recovery and to improve stroke treatment outcomes. Stroke can impact different abilities (like thinking, talking and walking) and participation in everyday activities (like ordering food at a restaurant). We work with adults who have had a stroke to learn how the stroke impacts their life. Our research focuses on difficulties with communication and thinking.

This Study: Understanding Stroke Recovery in the First Year

This study includes four repeated assessments over the first year after a stroke to monitor any changes and improvements in thinking and communication. This study does not include any specific treatment—just several sessions of assessment.

We have many studies active in the lab. If you would like to learn about other study options available to you, please ask.

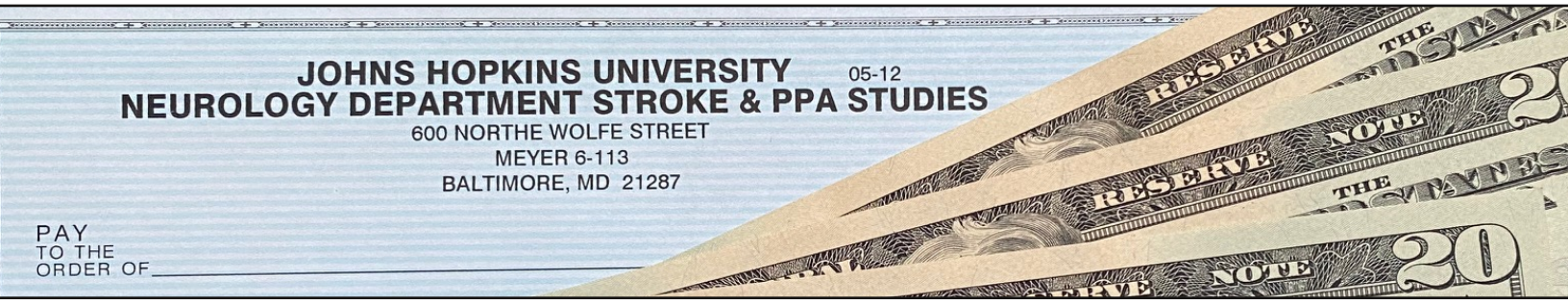
We also include in the study healthy adults who have not had a stroke to identify differences in performance by people who have had a stroke. Please feel free to share this information with friends or family who may be interested in participating.

Your Benefits

Because this study does not provide treatment, your participation may not directly benefit the difficulties you experience. However, your participation can have a significant impact on future stroke survivors. At the end of the study, we can talk with you about how your communication and thinking have recovered if you wish.

This study offers financial compensation for completing specific parts of the study and for transportation to/from Johns Hopkins in some cases.

- $100 for each MRI
- $40 for transportation/parking for each visit to Johns Hopkins
- $50 bonus for completing all parts and time points of the study



What You are Asked to Do

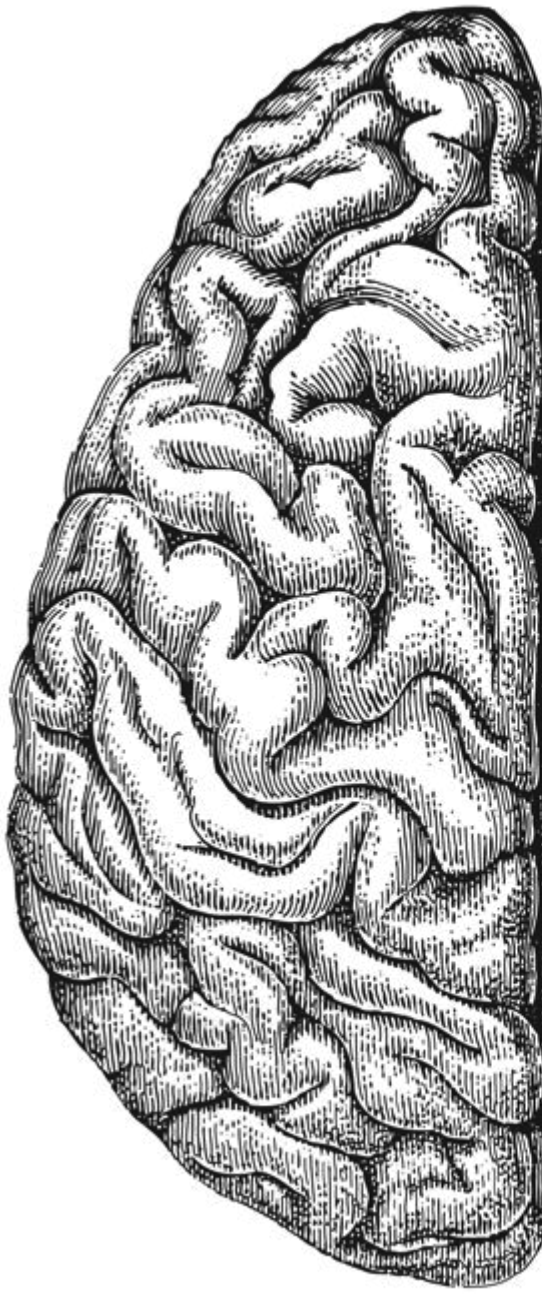
If you agree to participate, you will be asked to complete assessments and optional brain scans at four time points:

- in the first couple weeks after your stroke
  - Assessment (1-3 hours)
  - MRI and/or fNIRS (optional; see descriptions below)
- approximately 3 months after your stroke,
  - Assessment (1-3 hours)
  - MRI and/or fNIRS (optional)
- approximately 6 months after your stroke,
  - Assessment (1-3 hours)
  - MRI and/or fNIRS (optional)
- approximately 12 months after your stroke.
  - Assessment (1-3 hours)
  - MRI and/or fNIRS (optional)

You are not required to complete all assessments or all time points. If you decline to participate in any part, that will not negatively affect your participation in this or any other study.

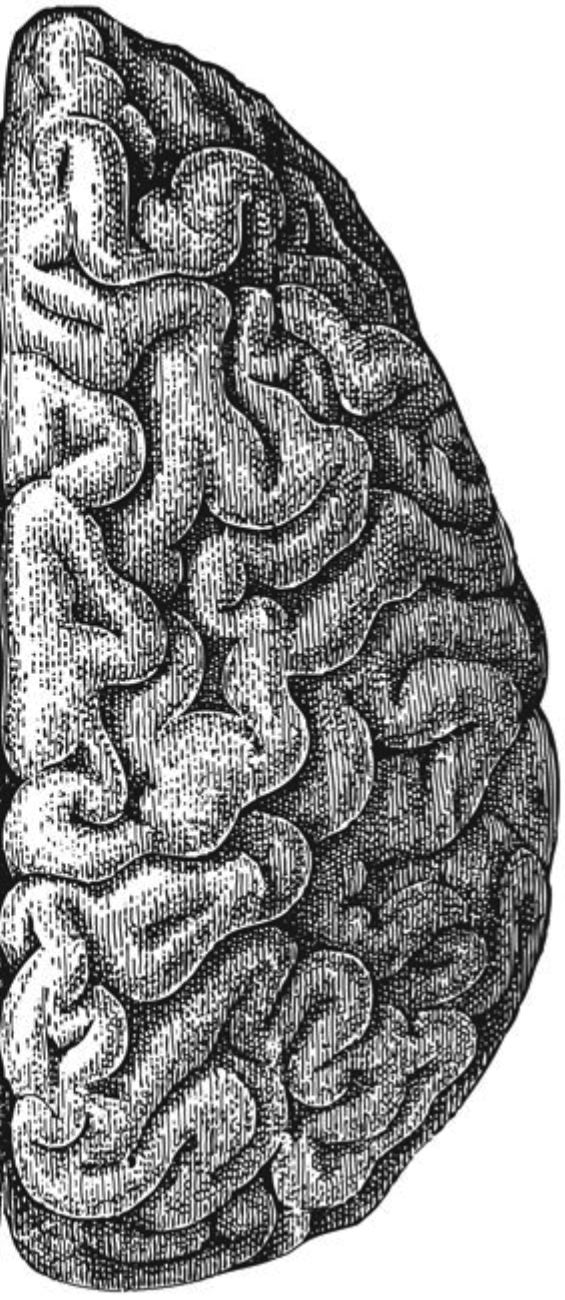
What is Included in Each Assessment

Some tasks and questions will be the same for everyone. We want to know about memory, attention, mood, medications, and your feelings about any difficulties you have from your stroke. Depending on the side of the brain most affected by your stroke, some tasks you will be asked to do will be different.



Left-Side Stroke

After a stroke to the left side of the brain, adults may have difficulty speaking, understanding, or producing language (like difficulty understanding sentences or coming up with the names of objects). We will ask you to complete different language tasks to help us understand how people process and recover language. Our goal is to improve language treatments in the future.



Right-Side Stroke

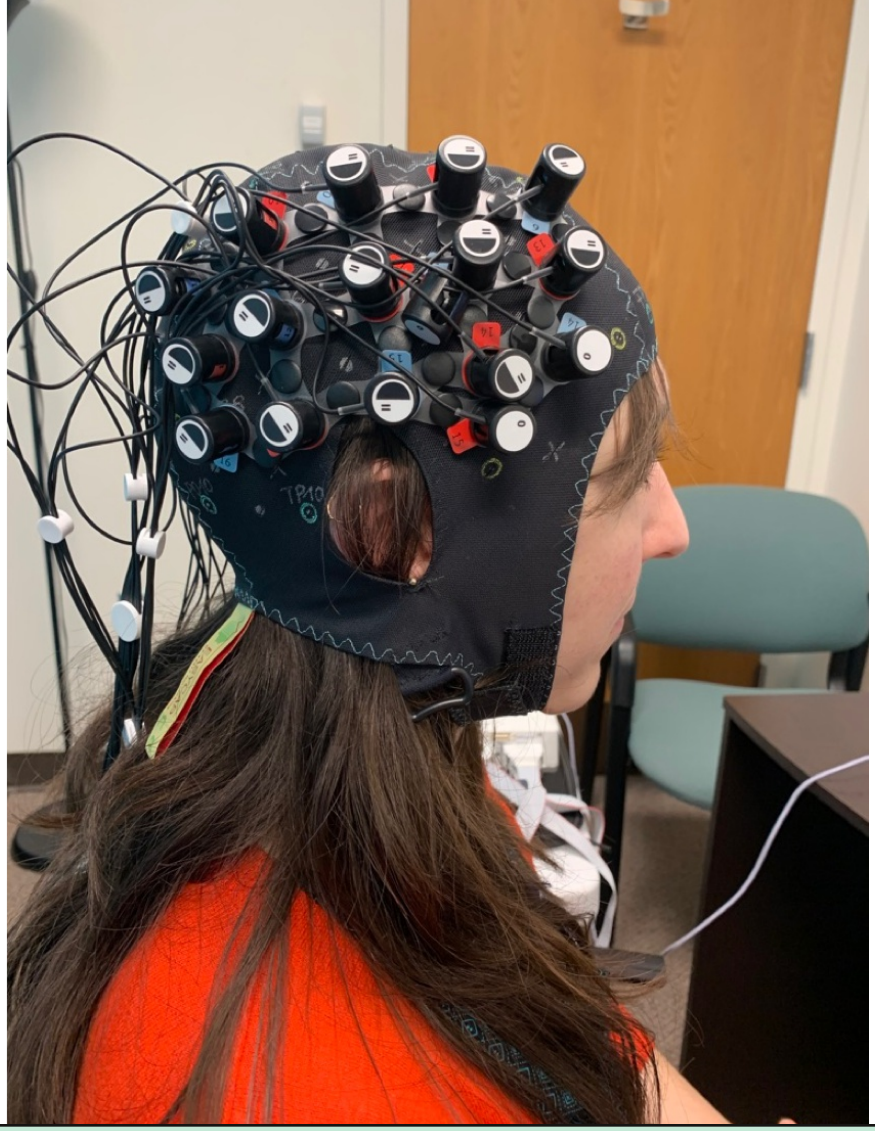
After a stroke to the right side of the brain, adults may have difficulty understanding or producing emotional prosody, or a speaker's emotional tone of voice (like sounding angry, sad, or happy). We have developed tasks to study how people understand and produce emotional prosody. Our goal is to develop a treatment for prosody difficulties in the future.

Optional Imaging

At each time point, you will be asked to complete optional brain imaging, so we can see what areas are affected by your stroke and what areas are active during certain tasks.

MRI

Magnetic Resonance Imaging (MRI) uses magnetic fields to create a 3-D image of your brain. It allows us to see where your stroke is, what structures are affected, and how your stroke affects brain activity. MRI is very safe as long as you have no ferrous metal (iron) in your body. The space in the scanner is limited and can be noisy. If you are sensitive to small spaces or noise, you may not be comfortable completing an MRI. You will be carefully screened before any MRI exam to ensure that the procedure will be safe for you. MRIs can only be completed at Johns Hopkins.



fNIRS

Functional Near-Infrared Spectroscopy (fNIRS) measures brain activity based on how your brain absorbs light. During the fNIRS scan, we will place a cap on your head and ask you to do different tasks. fNIRS is very safe—there are no known risks. fNIRS equipment is portable, so it can be done at Johns Hopkins or at your home in our STAR Car.

Special Accommodations

Travel to/from Johns Hopkins can be difficult. We offer some financial compensation for travel expenses. If you live a certain distance from the hospital, we can also arrange for transportation through Freedom Car. They can pick you up to bring you to the hospital and take you home after. We can also come to your home to complete all assessments (except MRI scans).

Participation is Voluntary

Your participation is completely voluntary. You may stop at any time, or say no to any part of the study. If you do not wish to complete some part of the study, that will not affect your participation in this or any other study.