**Older participants invited to be a part of Memory Research Study**

We are seeking participants for a functional magnetic resonance (fMRI) and transcranial magnetic stimulation (TMS) study on memory through the UCLA Department of Psychiatry and Biobehavioral Sciences.

The study will last for 7 days, with up to 1.5-2 hours on the 1st, 2nd, and 7th day and 1 hour maximum on the 3rd, 4th, 5th and 6th day. Participants receive $140 for their participation in addition to parking costs. We will also give participants a picture of their brain.

Participants must be age 60-90, right-handed, native English speakers. You must have no current neurological/psychiatric disorders, no history of brain damage, no current drug/alcohol addiction, and no non-removable, magnet-responsive metal in or on your body. For more information, please e-mail philipchoi@mednet.ucla.edu or call (310) 794-7517.
Older participants with Mild Cognitive Impairment (MCI) invited to be a part of Memory Research Study

We are seeking participants with MCI, or who may be experiencing memory loss, for a functional magnetic resonance (fMRI) and transcranial magnetic stimulation (TMS) study on memory through the UCLA Department of Psychiatry and Biobehavioral Sciences.

The study will last for 7 days, with up to 1.5-2 hours on the 1st 2nd, and 7th day and 1 hour maximum on the 3rd, 4th, 5th and 6th day. Participants receive $140 for their participation in addition to parking costs. We will also give participants a picture of their brain.

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This study is looking for people aged 60-90 who have mild cognitive impairment. The study is also looking for people with normal cognition, as a comparison. The study is testing a medical device to determine whether brain stimulation improves memory.

You could be eligible for this study if:
- You are between 60 and 90.
- You are right-handed.
- You are fluent in English.
You either:
- Have mild cognitive impairment: or
- Have normal cognition.

You may not be eligible for this study if:
- You have, or have had, a significant neurological or psychiatric condition including history of brain damage or dependence on drugs or alcohol.
- You cannot have TMS treatment, for example, because of metal in your body.

Study schedule:
- There will be 7 days of study visits. Each one will take 1-3 hours.
- Day 1: You will complete screening questions and do memory assessments.
- Day 2: You will have a brain scan (described below).
- Day 3-7: You will have the assigned brain stimulation (described below).
- Day 7: You will do memory assessments and have a brain scan (described below).

Study activities may include:
- Doing memory assessments in the form of interview-style conversations, paper-and-pencil questionnaires, computer tests, or other activities.
- Having brain scans (described below).
- Having the assigned brain stimulation (described below).

Treatment or experiment details:
- The brain scan is an MRI. For this, you will lie inside the scanning machine for about an hour while it takes a 3-D image of your brain.
- The brain stimulation is transcranial magnetic stimulation (TMS). For this, a coil of wire inside a plastic casing will be placed against the surface of your scalp. Electricity will be passed through the coil in short pulses, creating magnetic fields. The magnetic fields will stimulate areas of the brain. Each session takes about 1 hour. The effect of TMS will be compared with the effect of placebo treatment. For placebo treatment, there will be pretend sessions that look and sound the same as active TMS, but no electricity will be passed through the coil.
- During the study, you will be assigned to have either: Active TMS or Placebo TMS. This will be determined randomly before the study starts, similar to flipping a coin.
- You will not know whether it is active TMS or placebo TMS until after the study.

Additional details:

Participants will receive $140. Participants can also have a picture of their brain and results of the study once it is completed.