

# Research Volunteers Needed for Migraine Study

## CAMP STUDY

### Comorbidities Associated with Migraine and Patent Foramen Ovale



A patent foramen ovale (PFO) is an opening or hole between the left and right upper heart chambers that usually closes after birth. People who have migraine with aura are more likely to have a PFO, which may allow small blood clots to pass from the right side of the heart to the brain and cause migraine attacks. It is unknown if a PFO contributes to or worsens migraine-related conditions such as stroke.

The purpose of the CAMP Study is to:

1. Measure conditions that may be common in persons who have migraine with aura such as PFO, sleep problems and memory disturbance;
2. Determine if a PFO affects migraine-related conditions by comparing migraineurs who have a large PFO and migraineurs who do not have a PFO.

In addition to having migraine with aura, half of the people who participate in the study will have a large PFO and half will not have a PFO.

**If you are 18-55 years old and have been diagnosed with migraine with aura, you may be eligible to participate in the CAMP Study.**

#### What are subjects asked to do for the study?

- Step 1.** Answer questions about your medical history, medications, lifestyle, migraines, and sleep habits.
- Step 2.** Have an ultrasound to test for the presence of PFO. Depending on the results of this test, you may have additional tests to study the blood vessels in your brain and your blood platelets.
- Step 3.** Perform an at-home overnight test using a portable sleep monitor to test for sleep disturbances.
- Step 4.** Complete tests that measure your ability to think, reason, and remember.

You will be paid \$50 after completing Steps 2, 3, and 4 (total \$150). You and your doctor will receive a copy of your PFO test and sleep study results.

If you are interested in participating or have additional questions, please email [Lauren.braam@swedish.org](mailto:Lauren.braam@swedish.org) or call (206) 215-2437 to speak with a study coordinator.