This study aims to investigate the effects of Ultrasound on depressive symptoms.

To join the study, you will first undergo a series of clinical assessments to measure your symptoms related to your mood and behavior. There will be several online surveys to complete including the Medical Intake Questionnaire and an MRI safety screener.

If you are eligible, you will come into the lab on a separate day and complete an MRI scan and surveys.

During the ultrasound intervention week, you will receive 10 minutes of pulsed ultrasound daily for 1 week, with surveys about your thoughts, mood, and behaviors.

After the first week, on a separate day there will be surveys and a second MRI scan.

If there is a significant reduction in depressive symptoms and related brain activity, the intervention phase will be complete.

If not, there will be an additional 2 weeks of ultrasound sessions and daily surveys. On a separate day there will be surveys and a final MRI scan.

Lastly, 1, 3, and 6 months after completing the intervention phase, you will be asked to complete surveys via phone call or online survey to assess any long-lasting benefits related to the intervention.

The Effect of Transcranial Ultrasound on Default Mode Activity and Behavior

Screening: Online Surveys, Interview

Baseline (surveys & fMRI scan)

Ultrasound week 1 (5 days)
   Daily surveys
   fMRI scan

Ultrasound week 2&3 (3 days)
   Daily surveys
   fMRI scan

Long-Term Follow Up