



# Currently Enrolling Digital Biomarker Studies

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## Why are digital biomarker studies important for ALS Research?

Digital biomarkers are helping us revolutionize ALS research by changing the way we gather and analyze data. By utilizing tools like wearable technology and smartphone applications, we are finding new and more accurate ways to understand and assess ALS symptoms. In the future, these new tools can be used to not only improve patient care, but also make clinical drug trials more accurate and efficient.



### Study of Fatigue in ALS One in-person study visit!

**Sponsor:** Biogen

**Full Trial Name:** Pilot study of endurance tasks to measure performance fatigue in ALS

**Study Length:** 4 hours (1 in-person visit)

**Participants:** People with ALS

**Purpose of Study:** To learn if three motor tasks (walking task, upper arm task, and a fine motor hand movement task) can be used to measure fatigue in people with ALS. We are also investigating the utility of digital tools to quantify characteristics of performance fatigue.

**Study Assessments:** We will ask you to complete several tasks, including three motor tasks designed to test performance fatigue, while wearing sensors that will record your movements. Participants must be able to walk and/or use their hands; use of assistive devices is permitted.

**Principal Investigator:** James Berry, MD, MPH

**Enrollment Contacts:** Alison Clark, 617-726-4284, [aclark51@mgh.harvard.edu](mailto:aclark51@mgh.harvard.edu); Amrita Iyer, 617-643-9550, [aiyer2@mgh.harvard.edu](mailto:aiyer2@mgh.harvard.edu)

### Study of Speech Motor Impairment in ALS

Enroll and participate from your home!

**Sponsor:** National Institutes of Health

**Full Study Name:** Speech motor impairments in ALS

**Study Length:** Up to 4 remote sessions, of up to 2.5 hours each

**Participants:** People with ALS

**Purpose of Study:** To learn more about speech symptoms experienced by people with ALS, in order to help improve the diagnosis and treatment of ALS

**Study Assessments:** You will be asked to fill out a health questionnaire and repeat various sounds and sentences while the movements of your face and mouth are recorded. Study sessions can be completed remotely using your own computer or device.

**Principal Investigator:** Dr. Jordan Green, Ph.D., CCC-SLP

**Enrollment Contacts:** Speech and Feeding Disorders Lab Staff, [speechfeedinglab@mghihp.edu](mailto:speechfeedinglab@mghihp.edu), 617-724-6347

### For more information:

Contact the research coordinator listed for trial(s) you are interested in OR Judi Carey, Research Access Nurse, at [jcarey8@partners.org](mailto:jcarey8@partners.org) or 617-724-8995

## Study of Smartphone App for ALS

Enroll and participate from your home!

**Sponsor:** ALS Finding a Cure

**Full Study Name:** Feasibility and Sensitivity of a Symptom Monitoring Application in Real Time (SMART) for ALS

**Study Length:** 12 months

**Participants:** People with ALS and healthy volunteers

**Purpose of Study:** To determine the usefulness of a smartphone app in collecting research data and to learn more about disease progression.

**Study Assessments:** The study asks each participant to use the smartphone application for a few minutes every day by answering a questionnaire/survey, recording your voice and/or performing an on-screen exercise. The study requires participants to download and use the smartphone application using their smartphone device running iOS 8 or higher, or Android 4.1 or higher.

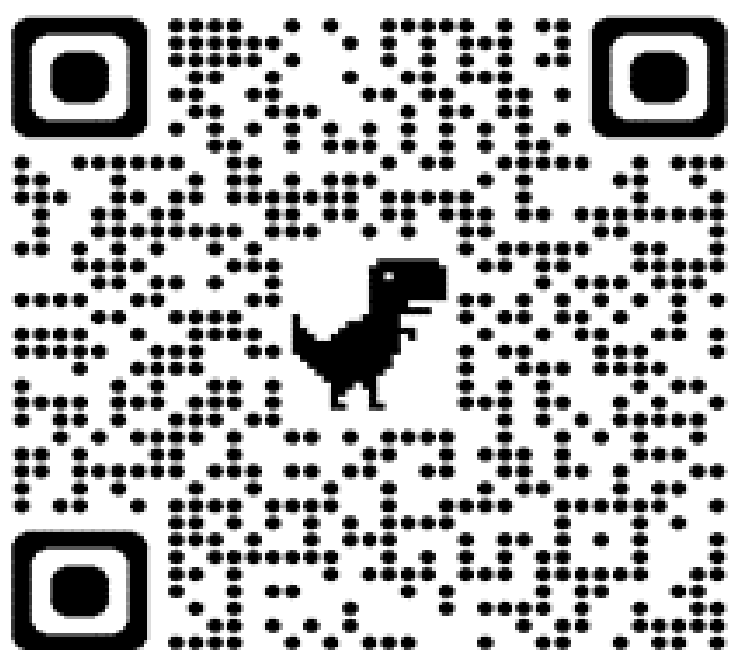
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