

# Novel Wrist Sensor System to Promote Hemiparetic Arm Use in Home Daily Life of Chronic Stroke Survivors

NCT05626894

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Status	RECRUITING
Phase	Phase 2
Sponsor	Spaulding Rehabilitation Hospital
Enrollment	32 participants

## Key Eligibility Criteria

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### Inclusion (5)

- Male or female, 18-85 years of age at the time of enrollment;
- Anterior circulation ischemic stroke at least 6 months and up to 5 years prior to study enrollment;
- Unilateral upper extremity hemiparesis as characterized by initial scores on upper limb subtest of the Fugl-Meyer Assessment (FMA-UE) between 20 and 45;
- Intact cognitive function to understand the study procedures and goal setting (MMSE score above 23 and able to follow 3 step command);
- Being familiar and comfortable with the use of a tablet or smartphone.

### Exclusion (11)

- Severe spasticity (defined as a Modified Ashworth scale score of 3 or more) that would prevent safe performance of UE tasks;
- Visual impairments as assessed by the NIH Stroke Scale Visual Field subscale (only subjects with no visual loss will participate in the study); or hemispatial neglect that would impair the subject ability to see feedback on the app screen (as assessed with the star cancellation test);
- Individuals with open wounds or recent fracture (less than 3 months) in the UE, fragile skin or active infection as evaluated by the study therapist;
- Individuals currently enrolled in a UE rehabilitation program (i.e., OT, research study)
- Upper-extremity orthopedic injuries or severe pain resulting in movement limitations;
- ... and 6 more (see full listing online)

## Locations (1 total)

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Spaulding Rehabilitation Hospital Boston, Boston, Massachusetts, United States