

# The Effect of Non-invasive Brain Stimulation rTMS on Hand Muscles in Chronic Stroke Patients.

NCT06765642

---

Status	RECRUITING
Phase	Not Applicable
Sponsor	Duke University
Enrollment	26 participants

## Key Eligibility Criteria

---

### Inclusion (4)

- Age  $\geq 21$  years old of any race or gender
- First-ever ischemic or hemorrhagic stroke (neuroimaging verified) at least 6 months from stroke onset
- Unilateral arm weakness measured by FM-UM scale  $\leq 62/64$
- Inducible rest motor threshold and testing motor threshold recorded from the affected first dorsal interosseous (FDI) muscle from the study subject

### Exclusion (11)

- Bilateral strokes (infarcts and/or hematoma)
- Other co-existent neuromuscular disorders affecting upper extremity motor impairment.
- History of medically uncontrolled depression or other neuropsychiatric disorders despite medications either before or after a stroke that may affect the subject's ability to participate in the study.
- History of confirmed dementia or taking the following dementia drugs, such as Donepezil, Rivastigmine, Galantamine, Memantine, Aducanumab, Lecanemab, Donanemab that affecting their ability to follow study procedure.
- Uncontrolled hypertension despite medical treatment(s) at the time of randomization, defined as SBP  $\geq 185$  mmHg or DBP  $\geq 110$  mmHg (patient can be treated, reassessed and randomized later).
- ... and 6 more (see full listing online)

## Locations (1 total)

---

Duke University Medical Center, Durham, North Carolina, United States