

Closed-loop rTMS-EEG During Visuomotor Integration.

NCT07249801

Status	RECRUITING
Phase	Not Applicable
Sponsor	Medical University of South Carolina
Enrollment	20 participants

Key Eligibility Criteria

Inclusion (4)

- adult volunteers (age ≥18 years)
- right-hand dominance (defined with the Edinburgh Handedness Scale)
- voluntary whole-hand grip force (Medical Research Council scale for muscle force ≥2)
- capable of repeated grasp and release with 5% of maximum voluntary contraction (standardized with an in-house computer-based assessment involving whole-hand grip force tracking upon visual cues with a digital dynamometer).

Exclusion (11)

- presence of any MRI risk factors (such as an electrically, magnetically, mechanically activated metal or nonmetal implant including cardiac pacemaker, intracerebral vascular clips, any other electrically sensitive support system, or claustrophobia)
- presence of any contraindications to repetitive transcranial magnetic stimulation, rTMS (e.g., history of seizures or epileptic activity, currently taking medications that lower seizure thresholds)
- any neurological or psychiatric disorders affecting cognitive function (e.g., established dementia) affecting the ability to understand the purpose of the study and give informed consent or ability to complete cognitive testing
- substance use disorder
- visual impairment that precludes completion of scanner tasks

... and 6 more (see full listing online)

Locations (1 total)

Medical University of South Carolina, Charleston, South Carolina, United States