Investigating the Effects of Transcranial Direct Current Stimulation to Different Brain Regions on Ankle Tracking Motor Learning, Motor Adaptation, and Brain Connectivity in Healthy Middle-aged and Older Adults and Patients With Subcortical Stroke

NCT06556043

Status	RECRUITING
Phase	Not Applicable
Sponsor	National Taiwan University Hospital
Enrollment	120 participants

Key Eligibility Criteria

Inclusion (15)

- age between 40 and 80 years old
- intact cognitive function (MMSE g 27)
- normal ankle dorsiflexor and plantarflexor strength (manual muscle strength testing= 5) and passive range of motion (ankle dorsiflexion g10 degrees; ankle plantarflexion g 45 degrees)
- corrected far vision e 0.8 (Landolt C test) and uncorrected near vision e 0.04 (Comprehensive Color Blindness Checklist)
- aged between 40 and 80 years old;

... and 10 more (see full listing online)

Exclusion (12)

- having any contraindications for MRI or tDCS;
- serious or uncontrolled systematic diseases;
- symptoms or history of neurological diseases, including transient ischemic attack, stroke, epilepsy, history of abnormal electroencephalogram (EEG), meningitis, encephalitis, brain tumors, brain surgery, and sensory disorders, etc.;
- severe musculoskeletal problems that would affect lower limb functions;
- visual spatial perception disorders and hearing loss;

... and 7 more (see full listing online)

Locations (1 total)

School and Graduate Institute of Physical Therapy, National Taiwan University, Taipei, Taiwan