

Feasibility, Safety, and Preliminary Efficacy of Median Nerve Stimulation for Cognitive Dysfunction in Patients With Acute Traumatic Brain Injury

NCT07413562

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| Status | RECRUITING |
| Phase | Not Applicable |
| Sponsor | Beijing Tiantan Hospital |
| Enrollment | 30 participants |

Key Eligibility Criteria

Inclusion (5)

- Aged 18-64 years.
- Admitted within 3 days post-injury with a Glasgow Coma Scale (GCS) score of 9-12 at admission, accompanied by imaging abnormalities.
- Presence of cognitive dysfunction assessed within 1-week after injury, with a Mini-Mental State Examination (MMSE) score ≥ 26 .
- Pre-injury Clinical Dementia Rating (CDR) score = 0 as reported by family members.
- With a pre-injury education of ≥ 6 years, able to comprehend instructions and cooperate in completing scale assessments, magnetic resonance imaging (MRI), and magnetoencephalography (MEG) examinations.

Exclusion (8)

- Requirement for emergent neurosurgical intervention during treatment including surgery, intracranial pressure monitoring device placement, or drainage catheter insertion.
- Unstable vital signs or hemodynamics, or presence of unstable cardiac, pulmonary, hepatic, renal, or hematopoietic system disorders.
- Pre-existing central nervous system conditions causing cognitive decline: traumatic brain injury, intracranial infection, brain tumor, epilepsy, stroke, neurodegenerative diseases, carbon monoxide poisoning, and alcohol abuse.
- Inability to complete assessments or examinations due to severe visual or auditory impairment, severe psychiatric or behavioral disorders, MRI contraindications, and MEG intolerance.
- Short life expectancy due to critical illnesses.

... and 3 more (see full listing online)

Locations (1 total)

Beijing Tiantan Hospital, Capital Medical University, Beijing, Beijing Municipality, China