

Effect of Transcutaneous Auricular Vagus Nerve Stimulation on Patients With Disorders of Consciousness

NCT07284732

Status	RECRUITING
Phase	Not Applicable
Sponsor	Zhujiang Hospital
Enrollment	20 participants

Key Eligibility Criteria

Inclusion (5)

- Aged 18-70 years, with a disease duration exceeding 28 days but not longer than 1 year.
- Patients diagnosed with disorders of consciousness (DoC), specifically classified as either vegetative state (VS) or minimally conscious state (MCS) according to the Coma Recovery Scale-Revised (CRS-R) based on international guidelines.
- No prior history of neuropsychiatric disorders.
- Absence of contraindications to transcutaneous auricular vagus nerve stimulation (taVNS) or electroencephalography (EEG), and no concurrent use of sedatives or medications that may interfere with cerebral stimulation-including Na⁺ or Ca²⁺ channel blockers or NMDA receptor antagonists.
- Intact skin at the auricular site.

Exclusion (6)

- Participation in other trials involving non-invasive or invasive neuromodulation.
- Uncontrolled epilepsy, defined as seizures occurring within 4 weeks prior to enrollment.
- Presence of cranial metal implants, pacemakers, craniotomy at the stimulation site, implanted brain devices, or similar conditions.
- Cardiac arrhythmia or other significant cardiovascular abnormalities;
- History of respiratory disorders, including dyspnea, asthma, or hyperventilation.

... and 1 more (see full listing online)

Locations (1 total)

Zhujiang Hospital of Southern Medical University, Guangzhou, Guangdong, China