

Development, Application, and Mechanistic Investigation of a Novel Minimally-Invasive Bidirectional Epidural Cerebellar Stimulation Technique for Cerebellar Cognitive Affective Syndrome

NCT07166432

Status RECRUITING
Sponsor Peking University First Hospital
Enrollment 200 participants

Key Eligibility Criteria

Inclusion (6)

- Clinically and biochemically confirmed ACTH-dependent or ACTH-independent Cushing syndrome (loss of serum cortisol circadian rhythm, elevated 24-hour urinary free cortisol, and failure to suppress on low-dose dexamethasone suppression test).
 - Cranial MRI demonstrating unequivocal cerebellar atrophy (CCAS imaging criterion: cerebellar hemisphere or vermian volume ≤ 1.5 SD below age-matched normative data).
 - Established clinical diagnosis of CCAS (meets Schmahmann criteria, CCAS-S total score ≥ 20).
 - Cerebellar ataxia rating scale (SARATA) ≥ 10 , indicating at least moderate motor ataxia.
 - Positive cognitive impairment screen (MoCA ≤ 26 , or Z-scores ≤ -1.5 in at least two cognitive domains).
- ... and 1 more (see full listing online)

Exclusion (1)

- Patients with significant systemic disease; occurrence of major complications or irreproducible, critical deviations in data collection or experimental procedures; or any circumstance rendering continued participation inappropriate—including clinical deterioration, serious adverse events, or poor compliance—will result in discontinuation of the subject's enrollment.

Locations (1 total)

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