

Sonification Techniques for Gait Training

NCT04876339

Status	RECRUITING
Phase	Not Applicable
Sponsor	Istituti Clinici Scientifici Maugeri SpA
Enrollment	120 participants

Plain Language Summary

This study tests whether using sound cues (a technique called sonification — where movement is converted into real-time audio feedback) can help people with walking difficulties retrain and improve their gait. Participants include people who have had a stroke, people with Parkinson's disease, and people with multiple sclerosis.

****You may be eligible if...****

- You are under 80 years old (under 60 for MS patients)
- You have had a stroke, Parkinson's disease, or multiple sclerosis with altered walking patterns
- You can walk independently without aids or braces, even if your walking pattern is abnormal
- Your disease has been stable for at least 6 months
- You have good cognitive function (MMSE above 24)

****You may NOT be eligible if...****

- You have severe spasticity, a fixed Achilles tendon contracture, or use walking aids
- You have had a recent change in muscle relaxant medications
- You have had a previous limb or neurological condition that further impairs walking
- You have already received a recent course of similar rehabilitation therapy

Talk to your doctor to see if this trial is right for you.

Key Eligibility Criteria

Inclusion (19)

- Age \leq 80
- Mini Mental State Examination \geq 24
- Modified Rankin Scale: 1-3
- Single hemisphere lesion
- Stabilized disease (\geq 6 months after the acute event)

... and 14 more (see full listing online)

Exclusion (18)

- Multiple or bilateral lesions
- Neglect
- Equinism
- Spasticity: Ashworth \geq 2
- Structured (non-elastic) Achilles tendon retraction

... and 13 more (see full listing online)

Locations (1 total)

<https://clinicaltrials.gov/ct2/show/study/NCT04876339>, Pavia, Italy

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