

# Development and evaluation of a functional rehabilitation system for upper extremity function in stroke patients.

ACTRN12610000473066

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**Status** RECRUITING  
**Sponsor** Universidade Federal de Minas Gerais  
**Enrollment** 18 participants

## Plain Language Summary

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This study is comparing three different rehabilitation programs for stroke survivors who have weakness or limited function in one arm. Stroke can damage the brain pathways that control movement, making daily tasks very difficult. Researchers are testing whether a special robotic exoskeleton device that responds to muscle signals (EMG) can help people recover arm function better than conventional exercises. Participants will do 2 months of therapy, 3 times per week.

You may be eligible if:

- You are between 18 and 60 years old
- You had a single ischemic (blockage) or hemorrhagic (bleed) stroke
- You have weakness on one side of your body (hemiparesis) affecting your arm
- At least 6 months have passed since your stroke
- Your muscle stiffness (spasticity) is mild (level 0-2 on the Modified Ashworth Scale)

You may NOT be eligible if:

- You have significant heart problems such as arrhythmia or angina
- You have another neurological condition
- You cannot follow simple verbal instructions

Talk to your doctor about whether this trial might be right for you.

## Key Eligibility Criteria

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### Inclusion (1)

- Hemiparesis resulting from a single ischemic or hemorrhagic stroke event, spasticity classified between levels 0 and 2 on the Modified Ashworth Scale of Muscle Spasticity for the upper limb affected and minimum sequela time of 6 months.

### Exclusion (1)

- clinical signs of cardiac alterations, arrhythmia or angina; absence of other neurological impairment and capacity to obey simple verbal commands.

## Locations (1 total)

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Brazil

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<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12610000473066>

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