

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

18 Sep 2026

### Studying the Effectiveness of Neurologic Music Therapy on Cognitive Rehabilitation of Stroke Patients

#### Protocol summary

##### Study aim

Using Neurologic Music Therapy in cognitive rehabilitation of stroke patients and comparing the effectiveness of this intervention with standard rehabilitation procedures

##### Design

In this research, 30 eligible stroke patients who have been referred to a public hospital are chosen purposefully and are matched in two control and experiment groups according to their gender.

##### Settings and conduct

Study place: Firoozgar Hospital. Intervention: fifteen sessions, 2 sessions a week.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: 1- Experience of an ischemic stroke 2- It's no more than 2 years after the stroke 3- Impairments in attention, memory and executive functions due to stroke have been observed Exclusion criteria: 1- History of mental disorders (except for post-stroke depression) 2- History of any brain injuries other than stroke 3- Mental retardation 4- History of drug or alcohol abuse

##### Intervention groups

1) Experiment group: Neurologic music therapy in addition to standard rehabilitation intervention. 2) Control Group: standard rehabilitation intervention

##### Main outcome variables

Attention; Memory; Executive Functions

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20110807007250N2**

Registration date: **2018-02-09, 1396/11/20**

Registration timing: **registered\_while\_recruiting**

Last update: **2018-02-09, 1396/11/20**

Update count: **0**

##### Registration date

2018-02-09, 1396/11/20

##### Registrant information

###### Name

bijan forogh

###### Name of organization / entity

tehran university of medical science

###### Country

Iran (Islamic Republic of)

###### Phone

+98 21 8214 1229

###### Email address

bforough@tums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2017-12-22, 1396/10/01

##### Expected recruitment end date

2018-03-20, 1396/12/29

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Studying the Effectiveness of Neurologic Music Therapy on Cognitive Rehabilitation of Stroke Patients

##### Public title

Effect of NMT on Cognitive Capabilities of Stroke Patients

##### Purpose

Supportive

##### Inclusion/Exclusion criteria

###### Inclusion criteria:

Participants have experienced an ischemic stroke It's no

more than 2 years after their stroke Impairments in attention, memory and executive functions due to stroke have been observed

**Exclusion criteria:**

History of mental disorders (except for post-stroke depression) History of any brain injuries other than stroke Mental retardation History of drug or alcohol abuse

**Age**

No age limit

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

No information

**Sample size**

Target sample size: 30

**Randomization (investigator's opinion)**

Not randomized

**Randomization description**

**Blinding (investigator's opinion)**

Not blinded

**Blinding description**

**Placebo**

Not used

**Assignment**

Parallel

**Other design features**

**Secondary Ids**

empty

**Ethics committees**

**1**

**Ethics committee**

**Name of ethics committee**

Ethics committee of Iran University of Medical Sciences

**Street address**

Hemmat Highway, Tehran

**City**

Tehran

**Province**

Tehran

**Postal code**

۱۳۴۹۶۱۴۵۳۵

**Approval date**

2017-12-08, 1396/09/17

**Ethics committee reference number**

IR.IUMS.REC1396.31141

**Health conditions studied**

**1**

**Description of health condition studied**

Stroke

**ICD-10 code**

G46.4

**ICD-10 code description**

Cerebellar stroke syndrome

**Primary outcomes**

**1**

**Description**

Attention

**Timepoint**

Before, in the middle of and after the intervention, and in a 3 month follow-up

**Method of measurement**

Montreal Cognitive Assessment

**2**

**Description**

Memory

**Timepoint**

Before, in the middle of and after the intervention, and in a 3 month follow-up

**Method of measurement**

Montreal Cognitive Assessment

**3**

**Description**

Executive functions

**Timepoint**

Before, in the middle of and after the intervention, and in a 3 month follow-up

**Method of measurement**

Montreal Cognitive Assessment

**Secondary outcomes**

empty

**Intervention groups**

**1**

**Description**

Intervention group: Neurologic Music Therapy. 15 sessions of NMT intervention, 2 sessions a week. These sessions will be held in the hospital using simple percussion instruments and recorded music pieces. In this study 8 therapeutic techniques will be performed, as described in NMT Manual.

**Category**

Rehabilitation

**2**

**Description**

Control group: Standard rehabilitation interventions

**Category**

Rehabilitation

## Recruitment centers

1

### Recruitment center

**Name of recruitment center**

Firoozgar Hospital

**Full name of responsible person**

Sara Eskandary

**Street address**

Beh Afarin Ave., Karim Khan Zand St., Vali-e Asr Sq.

**City**

Tehran

**Province**

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1593747811

**Phone**

+98 21 8214 1600

**Email**

sa62ir@yahoo.com

## Sponsors / Funding sources

1

### Sponsor

**Name of organization / entity**

Iran University of Medical Sciences

**Full name of responsible person**

Dr. Kazem Malakooti

**Street address**

Iran University of Medical Sciences, Hemmat Highway

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۱۴۴۹۶۱۴۵۳۵

**Phone**

+98 21 8670 2503

**Email**

research@iums.ac.ir

**Grant name**

**Grant code / Reference number**

**Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Iran University of Medical Sciences

**Proportion provided by this source**

100

**Public or private sector**

Public

**Domestic or foreign origin**

Domestic

**Category of foreign source of funding**

empty

**Country of origin**

**Type of organization providing the funding**

Academic

## Person responsible for general inquiries

### Contact

**Name of organization / entity**

Iran University of Medical Sciences

**Full name of responsible person**

Bijan Forough

**Position**

Professor

**Latest degree**

Specialist

**Other areas of specialty/work**

Physical Medicine

**Street address**

Firoozgar Hospital, Ali Valadi Ave., Valiasr St.

**City**

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**Province**

Tehran

**Postal code**

1593747811

**Phone**

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**Email**

bforough@tums.ac.ir

## Person responsible for scientific inquiries

### Contact

**Name of organization / entity**

Iran University of Medical Sciences

**Full name of responsible person**

Bijan Forough

**Position**

Professor

**Latest degree**

Specialist

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Iran University of Medical Sciences

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Bijan Forough

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Professor

**Latest degree**

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**Other areas of specialty/work**

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**Email**

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**Sharing plan****Deidentified Individual Participant Data Set (IPD)**

Undecided - It is not yet known if there will be a plan to make this available

**Study Protocol**

Undecided - It is not yet known if there will be a plan to make this available

**Statistical Analysis Plan**

Undecided - It is not yet known if there will be a plan to make this available

**Informed Consent Form**

Undecided - It is not yet known if there will be a plan to make this available

**Clinical Study Report**

Undecided - It is not yet known if there will be a plan to make this available

**Analytic Code**

Not applicable

**Data Dictionary**

Not applicable