

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

19 Jun 2026

### The Effect of Musical Activities on Executive Function in Patients with Schizophrenia

#### Protocol summary

##### Summary

The aim of this study was to assess the effect of musical activities on executive function of patients with schizophrenia. 70 patients with schizophrenia in the age range of 20 - 45 years were non-randomly assigned to experimental or control group. Subjects with motor or sensory problems, mental retardation or any other conditions that can affect performance of tests or intervention were excluded. The experimental group took part in 24 music therapy sessions, 1 hour, 3 days a week including singing, playing musical instruments and performing purposeful movements with music. The executive function was measured using The Wisconsin Card Sorting Test (WCST), Stroop test, Tower of London, and The Purde Peg Board Test before and after the intervention.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT138812053419N1**

Registration date: **2010-02-27, 1388/12/08**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2010-02-27, 1388/12/08

##### Registrant information

###### Name

Mitra Khalafbeigi

###### Name of organization / entity

###### Country

Iran (Islamic Republic of)

###### Phone

+98 21 2222 7124

##### Email address

khalafbeigi.m@iums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Iran University of Medical Sciences

##### Expected recruitment start date

2010-02-27, 1388/12/08

##### Expected recruitment end date

2010-06-20, 1389/03/30

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

The Effect of Musical Activities on Executive Function in Patients with Schizophrenia

##### Public title

The Effect of Musical Activities on Executive Function in Patients with Schizophrenia

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: Schizophrenia diagnosed by a psychiatrist, Age 20 to 45 years, Being in chronic disease phase (at least 2 years history of the disease) Exclusion criteria: presence of movement disorders, sensory disorders, or epilepsy, no cooperation

##### Age

From **20 years** old to **45 years** old

##### Gender

Both

##### Phase

N/A

##### Groups that have been masked

No information

### Sample size

Target sample size: **70**

### Randomization (investigator's opinion)

Randomized

### Randomization description

### Blinding (investigator's opinion)

Not blinded

### Blinding description

### Placebo

Not used

### Assignment

Other

### Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Iran University of Medical Sciences

##### Street address

Crossroads of Shahid Hemmat and Shahid Chamran  
Expressways, Tehran

##### City

Tehran

##### Postal code

##### Approval date

2010-05-26, 1389/03/05

##### Ethics committee reference number

939

## Health conditions studied

### 1

#### Description of health condition studied

Schizophrenia

#### ICD-10 code

F20.6

#### ICD-10 code description

Simple schizophrenia

## Primary outcomes

### 1

#### Description

changes in executive function

#### Timepoint

2 months

#### Method of measurement

by TOWER of London test, Stroop test , PURDE PEG  
BOARD TEST, The Wisconsin Card Sorting Test (WCST)

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group: 24 sessions, 3 days a week, 1 hour  
for each session including singing, playing musical  
instruments and performing purposeful movements with  
music

#### Category

Other

### 2

#### Description

Control group: no intervention

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Association of Supporting Individuals with  
Schizophrenia

##### Full name of responsible person

Tayebe Dehbashi Zadeh

##### Street address

Unit 3A, No. 21, Kalhor St. corner, Kaveh St., Opposite  
the Faculty of Veterinary Medicine, Azadi St., Tehran

##### City

Tehran

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Iran University of Medical Sciences

##### Full name of responsible person

Vice-chancellor for Research

##### Street address

Crossroads of Shahid Hemmat and Shahid Chamran  
Expressways, Tehran,

##### City

Tehran

#### 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**  
*empty*  
**Domestic or foreign origin**  
*empty*  
**Category of foreign source of funding**  
*empty*  
**Country of origin**  
**Type of organization providing the funding**  
*empty*

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## Person responsible for general inquiries

### Contact

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## Person responsible for scientific inquiries

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## Person responsible for updating data

### Contact

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## Sharing plan

### Deidentified Individual Participant Data Set (IPD)

*empty*

### Study Protocol

*empty*

### Statistical Analysis Plan

*empty*

### Informed Consent Form

*empty*

### Clinical Study Report

*empty*

### Analytic Code

*empty*

### Data Dictionary

*empty*