

Clinical Trial Protocol

Iranian Registry of Clinical Trials

12 Jul 2026

Effect of repetitive trans-cranial magnetic stimulations on tinnitus in patients with tinnitus: a before after clinical trial

Protocol summary

Summary

Objectives: To assess the effect of repetitive trans-cranial magnetic stimulations on tinnitus. Design: A before after clinical trial. Setting and conduct: All eligible patients with tinnitus who will refer to the Beasat Hospital during the study period will be enrolled in to the trial. Inclusion criteria: (a) having tinnitus; (b) age of 18 to 60 years. Exclusion criteria: (a) history of severe neurological disorders or epilepsy; (b) using pacemaker; (c) using any kind of intracranial devices; (d) being pregnant. Intervention: Stimulation of the left side of the cortex with rTMS with frequency of 1 Hz and severity of 110% of the threshold for stationary engine and 1200 stimulations for 20 min once a day for three consecutive days. Control: In comparison with before treatment. Primary outcome: Assessing the status of tinnitus immediately, one week, and one month after treatment using THI questionnaire. Secondary outcome: headache immediately, one week, and one month after treatment by question.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201403189014N32**
Registration date: **2014-05-26, 1393/03/05**
Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2014-05-26, 1393/03/05

Registrant information

Name

Jalal Poorolajal

Name of organization / entity

Department of Epidemiology & Biostatistics Hamadan
University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 81 1838 0090

Email address

poorolajal@umsha.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice-chancellor for Research the Technology, Hamadan
University of Medical Sciences

Expected recruitment start date

2014-06-22, 1393/04/01

Expected recruitment end date

2015-06-21, 1394/03/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of repetitive trans-cranial magnetic stimulations on tinnitus in patients with tinnitus: a before after clinical trial

Public title

Effect of repetitive trans-cranial magnetic stimulations on tinnitus in patients with tinnitus

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: (a) having tinnitus; (b) age of 18 to 60 years. Exclusion criteria: (a) history of severe neurological disorders or epilepsy; (b) using pacemaker; (c) using any kind of intracranial devices; (d) being pregnant.

Age

From **18 years** old to **60 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **20**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Randomization: Non-randomized. Blinding: Open label.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Research Ethic Committee of Hamadan University of Medical Sciences

Street address

Vice-chancellor of Research the Technology,
Hamadan University of Medical Sciences, Shahid Fahmideh Ave

City

Hamadan

Postal code

6517838695

Approval date

2013-05-17, 1392/02/27

Ethics committee reference number

P/16/35/9/714

Health conditions studied

1

Description of health condition studied

Tinnitus

ICD-10 code

H93.1

ICD-10 code description

Tinnitus

Primary outcomes

1

Description

Assessing the status of tinnitus

Timepoint

immediately, one week, and one month after treatment

Method of measurement

using THI questionnaire

Secondary outcomes

1

Description

Headache

Timepoint

immediately, one week, and one month after treatment

Method of measurement

by question

Intervention groups

1

Description

Stimulation of the left side of the cortex with rTMS with frequency of 1 Hz and severity of 110% of the threshold for stationary engine and 1200 stimulations for 20 min once a day for three consecutive days.

Category

Treatment - Other

2

Description

In comparison with before treatment

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Beasat Hospital

Full name of responsible person

Maryam Emadi

Street address

Beasat Hospital, Shahed Square, Behesh Ave.

City

Hamadan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice-chancellor for Research the Technology,
Hamadan University of Medical Sciences

Full name of responsible person

Dr Saeid Bashirian

Street address

Hamadan University of Medical Sciences, Shahid
Fahmideh Ave

City

Hamadan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice-chancellor for Research the Technology, Hamadan
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

Person responsible for general inquiries

Contact

Name of organization / entity

School of Rehabilitation Sciences

Full name of responsible person

Maryam Emadi

Position

Master of audiometry

Other areas of specialty/work

Street address

School of Rehabilitation Sciences, Hamadan
University of Medical Sciences, Shahid Fahmideh Ave

City

Hamadan

Postal code

Phone

+98 81 1838 0572

Fax

Email

m.emadi@umsha.ac.ir

Web page address

**Person responsible for scientific
inquiries**

Contact

Name of organization / entity

School of Rehabilitation Sciences

Full name of responsible person

Maryam Emadi

Position

Master of audiometry

Other areas of specialty/work

Street address

School of Rehabilitation Sciences, Hamadan
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Phone

+98 81 1838 0572

Fax

Email

m.emadi@umsha.ac.ir

Web page address

Person responsible for updating data

Contact

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