Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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

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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

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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