

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

The effect of repetitive transcranial magnetic Stimulation (rTMS) on primary visual cortex at the lesion side on improvement of visual status of patients with subcortical stroke in the posterior cerebral artery

Protocol summary

Study aim

Evaluation of the effect of repetitive transcranial magnetic stimulation (rTMS) on primary visual cortex at the lesion side on improvement of visual status of patients with subcortical stroke in the posterior cerebral artery

Design

control group patients with cortical visual field defects secondary to ischemic stroke receiving only aspirin and plavix and case patients (receiving rTMS in addition to the drugs listed). Written informed consent was included in the study. All patients over 18 years and their illness duration is at least 3 months.

Settings and conduct

Babol University of Medical Sciences, Rouhani Hospital, Vision Clinic, Bahaar Clinic

Participants/Inclusion and exclusion criteria

A total of 15 control patients with cortical visual field defects secondary to ischemic stroke receiving only aspirin and plavix and 15 case patients (receiving rTMS in addition to the drugs listed). Written informed consent was included in the study. All patients over 18 years of age and duration of illness were at least 3 months. Patients with cortical visual impairment whose lesions were outside the visual cortex, impaired visual field due to glaucoma or brain tumors, or patients. Those who were banned from using rTMS were excluded

Intervention groups

control group patients with cortical visual field defects secondary to ischemic stroke receiving only aspirin and plavix and case patients (receiving rTMS in addition to the drugs listed). Written informed consent was included in the study. All patients over 18 years and their illness duration is at least 3 months.

Main outcome variables

Visual status according to VFI & MD in primetry of pre & post stimulation with rTMS

General information

Reason for update

Acronym

rTMS

IRCT registration information

IRCT registration number: **IRCT20200104046003N1**

Registration date: **2021-11-27, 1400/09/06**

Registration timing: **retrospective**

Last update: **2021-11-27, 1400/09/06**

Update count: **0**

Registration date

2021-11-27, 1400/09/06

Registrant information

Name

Muhammad Abbasi Golmaaie

Name of organization / entity

Babol University of medical sciences

Country

Iran (Islamic Republic of)

Phone

+98 11 3236 5347

Email address

m.abbasi@mubabol.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-09-23, 1398/07/01

Expected recruitment end date

2021-03-05, 1399/12/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of repetitive transcranial magnetic Stimulation (rTMS) on primary visual cortex at the lesion side on improvement of visual status of patients with subcortical stroke in the posterior cerebral artery

Public title

The effect of repetitive transcranial magnetic Stimulation (rTMS) on primary visual cortex at the lesion side on improvement of visual status of patients with subcortical stroke in the posterior cerebral artery

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Secondary ischemic stroke with cortical visual field defects (cVFD)

Exclusion criteria:

Patients with cortical visual impairment whose lesions were outside the visual cortex, visual field defects caused by glaucoma or brain tumors, or patients who were prohibited from using rTMS

Age

From **60 years** old to **80 years** old

Gender

Both

Phase

3

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 Babol University of Medical Science

Street address

Ganj Afrooze Blvd, Babol Town

City

Babol

Province

Mazandaran

Postal code

۴۷۱۷۶-۴۷۷۴۵

Approval date

2020-02-10, 1398/11/21

Ethics committee reference number

IR.MUBABOL.HRI.REC.1398.340

Health conditions studied

1

Description of health condition studied

Visual Defects of Stroke

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Visual Fields Remission post stroke

Timepoint

3 months

Method of measurement

perimetry& VFQ-25

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: patient with visual defects post stroke

Category

Rehabilitation

Recruitment centers

1

Recruitment center

Name of recruitment center

Rouhani Hospital

Full name of responsible person

Dr.Payaam Saadat

Street address

Ganjafroz Blvd,Rouhani Hospital

City

Babol

Province

Mazandaran

Postal code

47176-47745

Phone
+98 11 3223 8301
Fax
+98 11 3223 8309
Email
info@mubabol.ac.ir
Web page address
http://rohani.mubabol.ac.ir/

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Babol University of Medical Sciences
Full name of responsible person
Dr.Payaam Saadat
Street address
Ganjafroz Blvd,Babol University of Medical Sciences
City
بابل
Province
Mazandaran
Postal code
۴۷۱۷۶-۴۷۷۴۵
Phone
+98 11 3219 9592
Fax
+98 11 3219 0181
Email
info@mubabol.ac.ir
Web page address
https://www.mubabol.ac.ir/

Grant name

Grant code / Reference number

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

No

Title of funding source

Babol University of Medical Sciences

Proportion provided by this source

10

Public or private sector

Private

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
Babol University of Medical Sciences
Full name of responsible person
Dr.Payaam Saadat
Position
Assistant Professor of Neurology

Latest degree
Specialist
Other areas of specialty/work
Neurology
Street address
Zarabpouri,Golchin 9,Pelaak 17, gole yas Departemant
City
Babol
Province
Mazandaran
Postal code
4718757891
Phone
+98 11 3236 5347
Email
Muhammadabbasi437@gmail.com

Person responsible for scientific inquiries

Contact

Name of organization / entity
Babol University of Medical Sciences
Full name of responsible person
Dr.Payaam Saadat
Position
Assistant Professor of Neurology
Latest degree
Specialist
Other areas of specialty/work
Neurology
Street address
Zarabpouri,Golchin 9,gole yas Departemant,Pelaak 17
City
Babol
Province
Mazandaran
Postal code
4718757891
Phone
+98 11 3236 5347
Email
Muhammadabbasi437@gmail.com

Person responsible for updating data

Contact

Name of organization / entity
Babol University of Medical Sciences
Full name of responsible person
Dr.Payaam Saadat
Position
Assistant Professor of Neurology
Latest degree
Specialist
Other areas of specialty/work
Neurology
Street address
Zarabpouri,Golchin 9,Pelaak 17, gole yas Departemant
City

Babol
Province
Mazandaran
Postal code
4718757891
Phone
+98 11 3236 5347
Email
Muhammadabbasi437@gmail.com

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

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

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

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

The effect of repetitive transcranial magnetic stimulation (rTMS) on primary visual cortex at the lesion side on improvement of visual status of patients with subcortical stroke in

When the data will become available and for how long

2022-2023

To whom data/document is available

all of physician

Under which criteria data/document could be used

with permission of the prior writer

From where data/document is obtainable

The Email Adress of Writer

What processes are involved for a request to access data/document

message to the Email Adress of Writer

Comments