

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 Jun 2026

Efficacy of QEEG-based Neurofeedback in Learners' EFL Reading Comprehension Skill

Protocol summary

Study aim

Determining the Efficacy of QEEG-based Neurofeedback in Learners' EFL Reading Comprehension Skill

Design

Treatment with a control group, random sampling, 10 participants were chosen randomly and then were divided into two groups of five people as experimental group and control group. The rand function of Excel was used for randomizing.

Settings and conduct

Roohaye Sepid clinic in Mashhad, using neurofeedback. All participants in this study will be requested to respond to tests of reading comprehension and vocabulary size while measuring the brain frequency of the brain waves via qEEG recording system.

Participants/Inclusion and exclusion criteria

Every person who is qualified as B1 in English and is above 18 can take part in the experiment. Every person who has any psychological disorder, taking medicine or being under any other form of treatment, including neurofeedback or TMS is not allowed to take part in the experiment.

Intervention groups

Intervention group: The intervention group consists of five participants. Every participant takes the placement test and reading test and participates in twenty thirty-minute sessions of watching IELTS educational videos while small electrodes are attached to the scalp, recording brain waves and the participant tries to focus and keep the screen extended. Finally, the reading test is taken, again. Control group: The control group consists of five participants. Every participant takes the placement test and reading test and participates in twenty thirty-minute sessions of watching IELTS educational videos. Finally, the reading test is taken, again.

Main outcome variables

Reading comprehension score in English

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20231129060223N1**

Registration date: **2024-01-08, 1402/10/18**

Registration timing: **prospective**

Last update: **2024-01-08, 1402/10/18**

Update count: **0**

Registration date

2024-01-08, 1402/10/18

Registrant information

Name

Ahmad Pourzaki

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 51 3734 4779

Email address

a.poorzaki@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2024-01-15, 1402/10/25

Expected recruitment end date

2024-02-04, 1402/11/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Efficacy of QEEG-based Neurofeedback in Learners' EFL Reading Comprehension Skill

Public title

Efficacy of Neurofeedback on Language Learning

Purpose

Education/Guidance

Inclusion/Exclusion criteria

Inclusion criteria:

Having English level B1

Exclusion criteria:

Age

From **18 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **10**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Islamic Azad University of Mashhad

Street address

Medical college of Doctor Mohammad Shahinfar, Imam Khomeini 14th, Imam Khomeini Ave.

City

Mashhad

Province

Razavi Khorasan

Postal code

9133736351

Approval date

2023-11-08, 1402/08/17

Ethics committee reference number

IR.IAU.MSHD.REC.1402.142

Health conditions studied

1

Description of health condition studied

Neurofeedback Efficacy on Language Learning

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

IELTS reading score

Timepoint

Before and after treatment

Method of measurement

IELTS reading test

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: The intervention group consists of five participants. Every participant takes the placement test and reading test and participates in twenty thirty-minute sessions of watching IELTS educational videos while small electrodes are attached to the scalp, recording brain waves and the participant tries to focus and keep the screen extended. Finally, the reading test is taken, again.

Category

Other

2

Description

Control group: The control group consists of five participants. Every participant takes the placement test and reading test and participates in twenty thirty-minute sessions of watching IELTS educational videos. Finally, the reading test is taken, again.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Roohaye Sepid medical center

Full name of responsible person

Dr. Leyla Bayat Mokhtari

Street address

No. 8, Faramarze Abasi 36, Faramarze Abasi

City

Mashhad

Province
Razavi Khorasan
Postal code
9194894735
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+98 51 3609 7589
Email
a.poorzaki@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Islamic Azad University
Full name of responsible person
Dr. Rahim Dabiri
Street address
Ostad Yousofi intersection, Emamie Blvd., Qasem
Abad
City
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9187147578
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a.poorzaki@gmail.com
Web page address
<http://mshdiau.ac.ir>

Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
No
Title of funding source
Islamic Azad University of Mashhad
Proportion provided by this source
100
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
Islamic Azad University
Full name of responsible person
Ahmad Pourzaki
Position
Master student
Latest degree

Bachelor
Other areas of specialty/work
Neurolinguistics
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Person responsible for updating data

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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

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

Data Dictionary

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