

# 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 participate 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  
**Phone**  
+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**  
Mashhad  
**Province**  
Razavi Khorasan  
**Postal code**  
9187147578  
**Phone**  
+98 51 3663 0781  
**Email**  
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  
**Street address**  
4th fl., No. 61, Northern Motehari 44, Northern  
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**Phone**  
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**Email**  
a.poorzaki@gmail.com

## Person responsible for scientific inquiries

#### Contact

**Name of organization / entity**  
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**Full name of responsible person**  
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## Person responsible for updating data

#### Contact

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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