

Clinical Trial Protocol

Iranian Registry of Clinical Trials

06 Aug 2026

Comparison of the effectiveness two neurofeedback methods: theta wave suppress/beta wave increase and theta wave suppress/alpha increase in improvement of cognitive functions in children with attention deficit hyperactivity disorder

Protocol summary

Summary

This study is planned to comparison of two neurofeedback protocol in improvement of children's cognitive functions. Among the 7 to 10 years children referring to Brozorgmehr Clinic of Tabriz university of medical sciences who are diagnosed Attention deficit and hyperactive disorder. These children should be candidate for neurofeedback training protocol, considering inclusion and exclusion criterias. This study is a clinical trial type, with intervene an independence variant. The included patients randomly replace in two group; one is theta Suppress/the other is high alpha increase protocol. Two groups have the parents' Conner's Score for Attention deficit and hyperactive disorder four times; before the intervention (neurofeedback training), in 8th week, after 20 and 40 sessions of neurofeedback training. They will graded according to their canner's Score. For the cognitive functions, we will do the CPS (Continuous performance Scare) test four times as above and the results will compare between two groups. The results will interpret with descriptive Statistical parameters (abundance percentage, mean and standard deviance.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201404122660N4**

Registration date: **2015-02-02, 1393/11/13**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-02-02, 1393/11/13

Registrant information

Name

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Name of organization / entity

Tabriz university of medical sciences

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Recruitment status

Recruitment complete

Funding source

Tabriz university of medical sciences , Vice chancellor for Research

Expected recruitment start date

2014-04-05, 1393/01/16

Expected recruitment end date

2014-12-21, 1393/09/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effectiveness two neurofeedback methods: theta wave suppress/beta wave increase and theta wave suppress/alpha increase in improvement of cognitive functions in children with attention deficit hyperactivity disorder

Public title

Comparison of the effectiveness two neurofeedback methods: theta wave suppress/beta wave increase and theta wave suppress/alpha increase in improvement of cognitive functions in children with attention deficit hyperactivity disorder

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: 1) Attention deficit and hyperactive disorder diagnosis based on DSM-IV; 2) Age between 7 to 10 years old and 3) no psycho pharmacological or psychotherapies in last 6 months Exclusion criteria: History of head trauma; Psychiatric co morbidity except opposition defiant disorder; History of epilepsy; Important medical disease; Mental Retardation; Concurrent psycho pharmacological or psychotherapies

Age

From **7 years** old to **10 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethic committee, vice chancellor for research of Tabriz University of Medical Sciences,

Street address

Golgasht Ave., Attar Neishaboory Ave.

City

Tabriz

Postal code

Approval date

2014-02-17, 1392/11/28

Ethics committee reference number

10347/4/5

Health conditions studied

1

Description of health condition studied

Attention Deficit-Hyperactivity Disorder

ICD-10 code

F90.0

ICD-10 code description

Disturbance of activity and attention

Primary outcomes

1

Description

canner's form scores for parents

Timepoint

Before the intervention / end of 8th week / after 20th session / after 40th session

Method of measurement

parent canner's form

Secondary outcomes

1

Description

Children's Cognitive functions

Timepoint

Before the intervention, 8th week after intervention, after the 20th and 40th sessions

Method of measurement

Continious prformance test

Intervention groups

1

Description

Control group: Tetha suppress / Betha increase Protocole of Neurofeedback

Category

Treatment - Other

2

Description

Intervention group: Tetha suppress / Alpha increase Protcole of Neurofeedback

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Bozrgmehr Clinic, Tabriz University of Medical Sciences

Full name of responsible person

Dr. Shahrokh Amiri

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Counter side of central post office, South Artesh Ave.

City

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Sponsors / Funding sources**1****Sponsor****Name of organization / entity**Tabriz University of Medical Sciences, Vice
chancellory for Research**Full name of responsible person**

Dr Mohammad Reza Rashidi

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Tabriz

Grant name**Grant code / Reference number****Is the source of funding the same sponsor
organization/entity?**

Yes

Title of funding sourceTabriz University of Medical Sciences, Vice chancellory
for Research**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**

Associate professor

Full name of responsible person

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Web page address**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