Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 2026

Cognintive Training Effect on Neurocognitive Function in Elite Soccer Player

Protocol summary

Summary

The study will take place in Football Academy and Rasoul Akram Hospital in Tehran. Eligibility Criteria for participation include : male soccer players , no history of substance abuse ,no history of chronic alcohol abuse ,no history of epilepsy , encephalitis, meningitis and any systemic disease. The thirty participants will test by CANTAB (Cambridge Neuropsychological test Automated Battery) . Working memory will test by SWM (Spatial Working Memory) , Attention will test by RVP (Rapid Visual Information Processing) and SRT (Simple Reaction Time). Thirty athletes (30 men) will randomly assigne to a study group (i.e. computer base cognitive training) or a control group . Cognitive training group will recruite N-Bank for 30 minutes, 3 days a week for 25 sessions . During the study participants will exclude if thay have any acute systemic illness , sport related and non-sport related concussion . At the end of the twenty-fifth session participants will evaluate by the same test (CANTAB Test) .Participants will fallow six months , after six month reevaluate by CANTAB test .

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201306184251N11**
Registration date: **2013-08-25, 1392/06/03**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2013-08-25, 1392/06/03

Registrant information

Name

Haleh Dadgostar

Name of organization / entity

Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 2200 4050

Email address

dadgostar.h@iums.ac.ir

Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences

Expected recruitment start date

2013-07-23, 1392/05/01

Expected recruitment end date

2014-02-20, 1392/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Cognintive Training Effect on Neurocognitive Function in Elite Soccer Player

Public title

Cognintive Training Effect on Neurocognitive Function in Elite Soccer Player

Purpose

Health service research

Inclusion/Exclusion criteria

Inclusion Criteria:Elite male soccer players ;No history of substance abuse; No history of chronic alcohol abuse ;No history of epilepsy , encephalitis, meningitis and any systemic disease Exclusion Criteria: Acute systemic illness during the study; Related and non-sport related concussion during the study;Not wanting to continue

Age

From **15 years** old to **40 years** old

Gender

Male

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **30**

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

Tehran University of Medical Sciences

Street address

Ghods St, Keshavarz Blvd

City

tehran

Postal code

1417614411

Approval date

2010-09-23, 1389/07/01

Ethics committee reference number

21713

Health conditions studied

1

Description of health condition studied

Neurocognitive Function

ICD-10 code

G94.8

ICD-10 code description

Other specified disorders of brain in diseases classified elsewhere

Primary outcomes

1

Description

Working memory(Spatial Working Memory)

Timepoint

Pretraining/ Post cognitive training end of 25th session/After 6 month

Method of measurement

Measurement by CANTAB test

2

Description

Attention (Rapid Visual Information Processing)

Timepoint

Pretraining/ post training end of 25th session/After 6 month

Method of measurement

Measurement by CANTAB test

3

Description

Attention(Simple Reaction Time)

Timepoint

Pretraining/ post training end of 25th session/After 6 month

Method of measurement

By CANTAB test

Secondary outcomes

1

Description

Age

Timepoint

Initial

Method of measurement

ID card

2

Description

Degree

Timepoint

Initial

Method of measurement

check list

3

Description

Position on the field of play

Timepoint

Initial

Method of measurement

Check List

Intervention groups

1

Description

Target group of cognitive training (computer_based cognitive training) N-Bank for 30 minutes, 3 days a week

for 25 sessions .

Category

Other

2

Description

No intervention for control group.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Football Academy

Full name of responsible person

Haleh Dadgostar

Street address

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Haleh Dadgotar

Street address

Shahr Ara ,Sattar khan, Rasoul Akram Hospital ,Sports Medicine Clinic

City

Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Iran 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

Iran University of Medical Sciences

Full name of responsible person

Haleh Dadgotar

Position

Assistant Professor

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Person responsible for scientific inquiries

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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