# Clinical Trial Protocol
# Iranian Registry of Clinical Trials

20 Sep 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

**Other areas of specialty/work**

**Street address**

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hldadgostar@gmail.com

**Web page address**

## Person responsible for scientific inquiries

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**Position**

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## Person responsible for updating data

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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*