Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

The Effectiveness of Computerized Cognitive Rehabilitation in Improving cognitive abilities of Schizophrenic Patients

Protocol summary

Summary

The purpose of this study is to investigate the effectiveness of computerized cognitive rehabilitation in improving cognitive abilities and investigation of rehabilitation interventions of computerized cognitive treatment in schizophrenic patients. A total of 15 male and female schizophrenic patients in the age range of 18-50 years old who have inclusion and exclusion criteria, are studied. Firstly, the pretests consisting of Wechsler, CPT and retrospective and prospective memory questionnaire are performed; secondly, therapeutic intervention which consist of performing Computerized Cognitive performance improvement software namely "Rehacome", in instructional sessions, 2 times per week, 45 min every session are administered. Therapeutic intervention is continuing 20 sessions for every patient; finally, post-tests are performed and the pretests and post-tests scores are compared before and after the intervention.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201112077462N3**
Registration date: **2011-12-21, 1390/09/30**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2011-12-21, 1390/09/30

Registrant information

Name
Mohammad Reza Mohammadi

Name of organization / entity
Tehran University of Medical Sciences

Country
Iran (Islamic Republic of)

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Recruitment status
Recruitment complete

Funding source
state

Expected recruitment start date
2011-11-06, 1390/08/15

Expected recruitment end date
2012-03-20, 1391/01/01

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
The Effectiveness of Computerized Cognitive Rehabilitation in Improving cognitive abilities of Schizophrenic Patients

Public title
The Effectiveness of Computerized Cognitive Rehabilitation in Improving cognitive abilities of Schizophrenic Patients

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria: receiving Schizophrenia diagnosis based on DSM IV TR by psychiatrist, the age range of 18-50, having hospitalization history Exclusion criteria: comorbidity with other psychiatric disorders, having brain damage, having mental retardation

Age
From **18 years** old to **50 years** old

Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **15**
Randomization (investigator's opinion)
Not randomized
Randomization description
Blinding (investigator's opinion)
Not 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
Qods street, Blvd Keshavarz, Teharan
City
Tehran
Postal code
Approval date
2011-11-17, 1390/08/26
Ethics committee reference number
1467/130/90/د

Health conditions studied

1

Description of health condition studied
Schizophrenia
ICD-10 code
F20
ICD-10 code description
Schizophrenia

Primary outcomes

1

Description
continuous attention
Timepoint
Baseline, 20 sessions after intervention
Method of measurement
CPT computerized test- the patients choose the target stimulus through the other stimulants and react to it by pressing the key. the number of correct and incorrect respondents are measured. measure scale is discrete quantifying.

Secondary outcomes

1

Description
working memory
Timepoint
Baseline, 20 sessions after intervention
Method of measurement
Wechsler digit span test- measure scale is discrete quantifying

2

Description
retrospective and prospective memory
Timepoint
Baseline, 20 sessions after intervention
Method of measurement
retrospective and prospective memory questionnaire- measure scale is discrete quantifying.

Intervention groups

1

Description
continuous attention, working memory and retrospective and prospective memory are improved by using computerized software namely "Rehacome". This intervention are performed for every patients in 20 sessions, 40 minutes per session.
Category
Rehabilitation

Recruitment centers

1

Recruitment center
Name of recruitment center
Psychiatry and Psychology Research Center, Roozbeh Hospital
Full name of responsible person
Zahra Keshavarzi
Street address
City
Tehran

Sponsors / Funding sources

1

Sponsor
Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Mrs Moamaie

Street address

fifth floor, The Qods street, Blvd Keshavarz, Tehran

City

Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Tehran 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

Tehran University of Medical Sciences, Psychiatry research center

Full name of responsible person

Zahra Keshavarzi

Position

MSc

Other areas of specialty/work

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Person responsible for scientific inquiries

Contact

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Tehran University of Medical Sciences, Psychiatry and Psychology Research Center

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MD

Other areas of specialty/work

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Person responsible for updating data

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Name of organization / entity

Psychiatry and Psychology Research Center

Full name of responsible person

Maryam Salmanian

Position

MS/Researcher

Other areas of specialty/work

Street address

City

Postal code

Phone

00

Fax

Email

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