

Clinical Trial Protocol

Iranian Registry of Clinical Trials

29 Aug 2026

Effect of bupropion on cognitive function in schizophrenia

Protocol summary

Summary

The objective of this study was to assess the effects of bupropion on cognitive function in schizophrenia. This study is a double blind case – control study in a large referral psychiatric university hospital in Iran (Mashhad) from June 2013 until September 2014. Inclusion criteria were a DSM-IV-TR diagnosis of schizophrenia, smoking at least 10 cigarettes a day. Exclusion criteria were major depressive, manic, or hypomanic episode, and seizure disorder and having contraindications for use of bupropion. Nineteen smoker schizophrenic patients were randomly allocated in two groups for 4 weeks (46 patients in cases and 44 patients in control group). They get antipsychotic Risperidone 2 mg during smoking cessation; they get 100 mg bupropion in second week 200 mg per day, and control group placebo. Positive and Negative Syndrome Scale (PANSS), Brief psychiatric rating scale (BPRS) were taken in beginning of study, 14th and 28th day of study. Cognitive tests (Stroop, Digit Span, and Wechsler, Wisconsin) were taken in beginning of study, 2nd, 7th, 14th, 28th of study.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201509055280N20**
Registration date: **2015-10-24, 1394/08/02**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-10-24, 1394/08/02

Registrant information

Name

Raheleh Nejati

Name of organization / entity

Mashhad University of Medical Sciences, Ibn-e- Sina

Psychiatric Hospital

Country

Iran (Islamic Republic of)

Phone

+98 51 3711 2540

Email address

nejatir2@mums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research of Mashhad University of Medical Sciences

Expected recruitment start date

2009-04-04, 1388/01/15

Expected recruitment end date

2011-04-04, 1390/01/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of bupropion on cognitive function in schizophrenia

Public title

Effect of bupropion on cognitive function in schizophrenia: A double-blind placebo and controlled study

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria were a DSM-IV-TR diagnosis of schizophrenia, smoking at least 10 cigarettes a day. Exclusion criteria were major depressive, manic, or hypomanic episode, and seizure disorder. And having contraindications for use of bupropion.

Age

No age limit

Gender

Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **90**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features
Random based on random numbers table

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethics Committee of Mashhad University of Medical sciences

Street address
Ghoraishy Building, University St.

City
Mashhad

Postal code

Approval date
2009-01-28, 1387/11/09

Ethics committee reference number
87348

Health conditions studied

1

Description of health condition studied
Schizophrenia

ICD-10 code
F20

ICD-10 code description
Schizophrenia

Primary outcomes

1

Description
Psychotic and anti-psychotic symptoms assessment

Timepoint
beginning of study, 14th and 28th day of study

Method of measurement
Brief psychiatric rating scale (BPRS)

2

Description
Positive and Negative Symptoms Scale

Timepoint
beginning of study, 14th and 28th day of study

Method of measurement
Positive and Negative Symptoms Scale (PANSS)

3

Description
Memory

Timepoint
in begging of study, 2nd, 7th, 14th, 28th of study

Method of measurement
(WMS) Wechsler Memory Scale

4

Description
Executive functions

Timepoint
in begging of study, 2nd, 7th, 14th, 28th of study

Method of measurement
(WCST) Wisconsin Card Sorting Test

5

Description
Selective attention and cognitive flexibility

Timepoint
in begging of study, 2nd, 7th, 14th, 28th of study

Method of measurement
Stroop test

6

Description
Memory

Timepoint
in begging of study, 2nd, 7th, 14th, 28th of study

Method of measurement
Digit Span

Secondary outcomes

empty

Intervention groups

1

Description
Both of group get antipsychotic Risperidone 2-6 mg/day (Dr Abidi pharma) and placebo group received a similar placebo tablet daily..

Category
Treatment - Drugs

2

Description

Both of group get antipsychotic Risperidone 2-6 mg/day and intervention group were received bupropion 100-200mg/day (Dr Abidi pharma).

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Ibn e Sina Hospital

Full name of responsible person

Dr Mansoureh Mirzadeh

Street address

Ibn-e-Sina Hospital, Bu-Ali Sq., Amel Blvd.,
Mashhad, Iran.

City

Mashhad

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research of Mashhad University of
Medical Sciences

Full name of responsible person

Dr Mahyar Mirheydari

Street address

Ghoraishy Building, University St.

City

Mashhad

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice chancellor for research of Mashhad 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

Mashhad University of Medical sciences

Full name of responsible person

Dr Najmeh Shahini

Position

Resident

Other areas of specialty/work

Street address

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Mashhad University of Medical sciences

Full name of responsible person

Dr Mansoureh Miradeh

Position

Psychiatrist

Other areas of specialty/work

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Person responsible for updating data

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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