

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jul 2026

Comparison Methylphenidate and Bupirone as Adjuant therapy in children with ADHD treated by Methylphenidate mono therapy

Protocol summary

Study aim

The aim of this study was to evaluate the effect of Bupirone on hyperactivity disorder in children.

Design

study was conducted on 50 patients with ADHD who were diagnosed by a child and adolescent psychiatrist which were eligible for inclusion in the study. Participants were randomly divided into two intervention groups and control group and each participant was assigned a code. For 25 patients in group one, Ritalin and Bupirone tablets, and for 25 patients in the second group, Ritalin and Placebo are given.

Settings and conduct

The research consisted of 50 patients with ADHD who referred to the Sanandaj Besat Hospital. Patients were randomly divided into two intervention groups and control group. The results of intervention at the beginning of the research and the second, fourth and eighth weeks are measured by the questionnaire.

Participants/Inclusion and exclusion criteria

Inclusion criteria:Diagnosis of ADHD based on Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5),Age between 6 -12 years Exclusion criteria:1- Intellectual disability based on clinical suspicious 2- presence of uncontrolled seizure

Intervention groups

Intervention group: A group of randomly selected patients received methylphenidate tablets (10 mg) for the first week (one quarter of the tablet at 8:00 am and one quarter of the tablet at 4:00 PM) and the second week (half the tablet at 8:00 am and half the tablet at 4:00 PM).) and from the third week afterwards (one tablet at 8:00 am and one tablet at 4:00 PM) Along with Bupirone powder 5 milligram for the first week (one quarter of the tablet at 8:00 am and one quarter of the tablet at 4:00 pm) and the second week (half the tablet at 8:00 am and half the tablet at 4:00 pm and afterwards the third week (five milligram at 8:00 am and five milligram at 4:00 pm).

Main outcome variables

Treatment for ADHD patients

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20160530028182N7**

Registration date: **2019-11-03, 1398/08/12**

Registration timing: **registered_while_recruiting**

Last update: **2019-11-03, 1398/08/12**

Update count: **0**

Registration date

2019-11-03, 1398/08/12

Registrant information

Name

Soleiman Mohammadzadeh

Name of organization / entity

Kurdistan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 87 3323 2168

Email address

dr.mohammadzadeh86@muk.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-09-23, 1397/07/01

Expected recruitment end date

2019-12-22, 1398/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date
empty

Scientific title
Comparison Methylphenidate and Buspirone as Adjuvant therapy in children with ADHD treated by Methylphenidate mono therapy

Public title
Effect of Buspirone in ADHD

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria:
Age between 6 -12 years Diagnosis of ADHD and ODD based on DSM5 without effective medication taking on mental status at least 2 weeks before the study
Exclusion criteria:
Intellectual disability based on clinical suspicious presence of uncontrolled seizure Drug side effects and hypersensitivity Receiving of any other drugs History of psychological disorder except for ADHD and ODD presence of medical diseases such as cardiac diseases

Age
From **6 years** old to **12 years** old

Gender
Both

Phase
2

Groups that have been masked

- Participant
- Investigator
- Data analyser

Sample size
Target sample size: **50**

Randomization (investigator's opinion)
Randomized

Randomization description
Individual based-simple randomization

Blinding (investigator's opinion)
Double blinded

Blinding description
The drug is prepared by the pharmacist and in coding packages which only the pharmacist is aware of its coding and delivered by researcher to the patient. Neither the investigator, nor the patient nor the analyst, knows the contents of the drug packages and the way they are coded.

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids
empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Kurdistan University of Medical Sciences

Street address

Pasdaran street

City

Sanandaj

Province

Kurdistan

Postal code

66177-13446

Approval date

2017-07-24, 1396/05/02

Ethics committee reference number

IR.MUK.REC.1395.135

Health conditions studied

1

Description of health condition studied

Attention deficit/hyperactivity disorder

ICD-10 code

F90

ICD-10 code description

Attention-deficit hyperactivity disorders

Primary outcomes

1

Description

Clinical Profile of illness reported by parents

Timepoint

Baseline , second, fourth and eighth weeks after intervention

Method of measurement

Canner's and ADHD Rating scales

2

Description

symptoms severity reported by parents

Timepoint

Baseline , second ,fourth and eighth weeks after intervention

Method of measurement

ADHD Rating scale and CGI

3

Description

efficacy of treatment

Timepoint

Baseline , second ,fourth and eighth weeks after intervention

Method of measurement

The Clinical Global Impressions (CGI) Scale used to rate the symptoms change over time, and efficacy of medication, taking into account the patient's clinical condition by clinicians.

Secondary outcomes

1

Description

Drug side effects

Timepoint

Second, fourth and eighth weeks after intervention

Method of measurement

checklist by clinical interview and exam

Intervention groups

1

Description

Intervention group: A group of randomly selected patients received methylphenidate tablets (10 mg) for the first week (one quarter of the tablet at 8:00 am and one quarter of the tablet at 4:00 PM) and the second week (half the tablet at 8:00 am and half the tablet at 4:00 PM).) and from the third week afterwards (one tablet at 8:00 am and one tablet at 4:00 PM) with a capsule containing Buspirone powder for the first week (one quarter of the tablet at 8:00 am and one quarter of the tablet at 4:00 pm) and the second week (half the tablet at 8:00 am and half the tablet at 4:00 pm) and after the third week (one tablet at 8:00 am and one tablet at 4:00 pm).

Category

Treatment - Drugs

2

Description

Control group: A group of randomly selected patients received methylphenidate tablets (10 mg) for the first week (one quarter of the tablet at 8:00 am and one quarter of the tablet at 4:00 PM) and the second week (half the tablet at 8:00 am and half the tablet at 4:00 PM).) and from the third week afterwards (one tablet at 8:00 am and one tablet at 4:00 PM) with a capsule containing placebo powder for the first week (1.25 mg at 8:00 am and 1.25 mg at 4:00 pm) and the second week (2.5 mg at 8:00 am and 2.5 mg at 4:00 pm) and after the third week (5 mg at 8:00 am and 5 mg at 4:00 pm).

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Medical, Educational and Therapeutic Center of Besat Hospital

Full name of responsible person

Dr.Soleiman Mohammadzadeh

Street address

Medical, Educational and Therapeutic Center of Besat Hospital, Keshawarz Street

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Sanandaj

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6619667761

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+98 87 3328 2004

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dr.mohammadzadeh86@muk.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Sanandaj University of Medical Sciences

Full name of responsible person

Dr. Farzin Rezaie

Street address

Pasdaran street

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Sanandaj

Province

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Postal code

66614713446

Phone

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Email

frrezaie@yahoo.com

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Sanandaj University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Sanandaj University of Medical Sciences

Full name of responsible person

Dr.Soleiman Mohammadzadeh

Position

Associate professor

Latest degree

Subspecialist

Other areas of specialty/work

Psychiatrics

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Postal code

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Phone

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Email

dr.mohammadzadeh86@muk.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity

Sanandaj University of Medical Sciences

Full name of responsible person

Dr.Soleiman Mohammadzadeh

Position

Associate professor

Latest degree

Subspecialist

Other areas of specialty/work

Psychiatrics

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Person responsible for updating data

Contact

Name of organization / entity

Sanandaj University of Medical Sciences

Full name of responsible person

Dr.Soleiman Mohammadzadeh

Position

Associate professor

Latest degree

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Other areas of specialty/work

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Email

dr.mohammadzadeh86@muk.ac.ir

Web page address

Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available