

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

04 Jul 2026

### Comparison of the efficacy of Buspirone and placebo in functional abdominal pain in children

#### Protocol summary

##### Study aim

Comparison of the efficacy of Buspirone and placebo in functional abdominal pain in children

##### Design

In this study, 100 children with the diagnosis of functional abdominal pain who are eligible for the study are chosen from a pediatrics gastroenterology private clinic. They are then randomly assigned into two groups of intervention and control and receive buspirone or placebo. Medications are placed in bottles that are divided by a pharmacist through a randomization software and each bottle have a code. This trial is a Phase 3 clinical trial.

##### Settings and conduct

In this study patients are recruited from a pediatrics gastroenterology private clinic, based on the inclusion criteria that has been explained in the study protocol. At first, patients will be observed for one week for type of their symptoms and pain severity without using any medications. Then patients would receive placebo or buspirone which are in matte bottles, randomly for 4 weeks. These bottles are classified randomly through the randomization software by a pharmacist. In each arm of the study, 50 patients are involved based on the statistical calculations. To determine the efficacy of buspirone and to compare its efficacy with placebo, two primary and secondary outcomes are defined. Primary outcome measure treatment response as pain relief in patients using Wong-Baker faces pain rating scale (WBFPRS). Secondary outcome measures the amount of changes in depression severity, anxiety, somatization, sleep quality and clinical impression of severity and improvement from the physician's point of view through The Children's Depression Inventory (CDI), Revised children's manifest anxiety scale TM(RCMASTM), Children's Somatization Inventory-Revised Form (CSI-24), The Sleep Disturbance Scale for Children (SDSC) and Clinical Global Impression Severity and Improvement scales (CGI-S, CGI-I) respectively. Primary and secondary

outcomes are measured before starting the intervention, 4 weeks after the start point and finally 8 weeks after the end of the intervention. Side effects also would be evaluated using a checklist, two weeks after using medication through telephone calls and also 4 weeks after the start point during visiting the patient.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: Children from 6 to 18, Filling the proposed Rome III diagnostic criteria for functional abdominal pain, Having written consent from the parents of these children before their entry to the study  
Exclusion criteria: Using any kind of psychiatric, antibiotic or probiotic medication in last 2 months, A history of symptoms improvement following 2 weeks of lactose free diet Positive result in lactose respiratory test, Suffering from another digestive disorder or organic disease, in addition to functional abdominal pain, Weight of Height below 5 percentile for appropriate age

##### Intervention groups

Intervention group: In this group 50 patients who are randomly chosen would receive buspirone. Control group: In this group 50 patients who are randomly chosen would receive placebo.

##### Main outcome variables

Primary outcome measure treatment response as pain relief in patients using Wong-Baker faces pain rating scale (WBFPRS). Secondary outcome measures the amount of changes in depression severity, anxiety, somatization, sleep quality and clinical impression of severity and improvement from the physician's point of view through The Children's Depression Inventory (CDI), Revised children's manifest anxiety scale TM(RCMASTM), Children's Somatization Inventory-Revised Form (CSI-24), The Sleep Disturbance Scale for Children (SDSC) and Clinical Global Impression Severity and Improvement scales (CGI-S, CGI-I) respectively.

#### General information

##### Reason for update

##### Acronym

## IRCT registration information

IRCT registration number: **IRCT20140304016844N3**

Registration date: **2018-01-15, 1396/10/25**

Registration timing: **prospective**

Last update: **2018-01-15, 1396/10/25**

Update count: **0**

## Registration date

2018-01-15, 1396/10/25

## Registrant information

### Name

Shervin Badihian

### Name of organization / entity

Isfahan University of Medical Sciences

### Country

Iran (Islamic Republic of)

### Phone

+98 31 1627 9766

### Email address

badihian@edc.mui.ac.ir

## Recruitment status

**Recruitment complete**

## Funding source

## Expected recruitment start date

2018-01-20, 1396/10/30

## Expected recruitment end date

2018-04-19, 1397/01/30

## Actual recruitment start date

empty

## Actual recruitment end date

empty

## Trial completion date

empty

## Scientific title

Comparison of the efficacy of Buspirone and placebo in functional abdominal pain in children

## Public title

Comparison of the efficacy of Buspirone and placebo in functional abdominal pain in children

## Purpose

Treatment

## Inclusion/Exclusion criteria

### Inclusion criteria:

Children from 6 to 18 Filling the proposed Rome III diagnostic criteria for functional abdominal pain Having written consent from the parents of these children before their entry to the study

### Exclusion criteria:

Using any kind of psychiatric, antibiotic or probiotic medication in last 2 months A history of symptoms improvement following 2 weeks of lactose free diet Positive result in lactose respiratory test Suffering from another digestive disorder or organic disease, in addition to functional abdominal pain Weight of Height below 5 percentile for appropriate age

## Age

From **6 years** old to **18 years** old

## Gender

Both

## Phase

3

## Groups that have been masked

- Participant
- Care provider
- Investigator
- Outcome assessor
- Data analyser

## Sample size

Target sample size: **100**

## Randomization (investigator's opinion)

Randomized

## Randomization description

Buspirone and placebo containing drug bottles will be coded by a pharmacist using random numbers in four blocks (generated by software). Allocation will be concealed and the attending physician, participants, and outcome assessor would be unaware of the drug codes.

## Blinding (investigator's opinion)

Double blinded

## Blinding description

In this study, patients, investigators and treating physician and also the person who helps children filling their forms do not know if they are receiving placebo or buspirone.

## Placebo

Used

## Assignment

Parallel

## Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethical committee of Islamic Azad University, Najafabad branch

##### Street address

Islamic Azad University of Najafabad, Najafabad boulevard, Najafabad, Isfahan, Iran

##### City

Isfahan

##### Province

Isfahan

##### Postal code

8514143131

#### Approval date

2017-08-18, 1396/05/27

#### Ethics committee reference number

15010101951020

## Health conditions studied

### 1

#### Description of health condition studied

Functional abdominal pain

#### ICD-10 code

R10.9

#### ICD-10 code description

Unspecified abdominal pain

## Primary outcomes

### 1

#### Description

Primary outcome is treatment response as pain relief in patients.

#### Timepoint

Primary outcome is measured before starting the intervention, 4 weeks after the start point and finally 8 weeks after the end of the intervention.

#### Method of measurement

Wong-Baker faces pain rating scale

## Secondary outcomes

### 1

#### Description

changes in depression severity

#### Timepoint

This outcome is measured before starting the intervention, 4 weeks after the start point and finally 8 weeks after the end of the intervention.

#### Method of measurement

The Children's Depression Inventory (CDI)

### 2

#### Description

changes in anxiety severity

#### Timepoint

This outcome is measured before starting the intervention, 4 weeks after the start point and finally 8 weeks after the end of the intervention.

#### Method of measurement

Revised children's manifest anxiety scale TM(RCMASTM)

### 3

#### Description

changes in somatization severity

#### Timepoint

This outcome is measured before starting the intervention, 4 weeks after the start point and finally 8 weeks after the end of the intervention.

#### Method of measurement

Children's Somatization Inventory-Revised Form (CSI-24)

### 4

#### Description

changes in sleep quality

#### Timepoint

This outcome is measured before starting the intervention, 4 weeks after the start point and finally 8 weeks after the end of the intervention.

#### Method of measurement

The Sleep Disturbance Scale for Children (SDSC)

### 5

#### Description

clinical impression of severity from the physician's point of view

#### Timepoint

This outcome is measured before starting the intervention, 4 weeks after the start point and finally 8 weeks after the end of the intervention.

#### Method of measurement

Clinical Global Impression Severity scale (CGI-S)

### 6

#### Description

clinical impression of improvement from the physician's point of view

#### Timepoint

This outcome is measured before starting the intervention, 4 weeks after the start point and finally 8 weeks after the end of the intervention.

#### Method of measurement

Clinical Global Impression Improvement scale (CGI-I)

## Intervention groups

### 1

#### Description

Intervention group: This group receive buspirone 5 milligrams tablets from Tehran Darou company based on their age and the dosage would increase gradually

#### Category

Treatment - Drugs

### 2

#### Description

Control group: This group receive placebo tablets that are similar to buspirone tablets and in this group also number of using tablets would increase gradually .

#### Category

Placebo

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Dr. Saneian's pediatrics gastroenterology private clinic

**Full name of responsible person**

Hossein Saneian

**Street address**

No 310, Qasr intersection, Shamsabadi St, Isfahan

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Omid Yaghini

**Position**

Member of Faculty of Medicine/ MD, Pediatrician

**Latest degree**

Subspecialist

**Other areas of specialty/work**

Pediatrics

**Street address**

Isfahan University of medical sciences, Hezar Jarib St, Azadi square, Isfahan

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**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Esfahan University of Medical Sciences

**Full name of responsible person**

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**Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Esfahan 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**

Esfahan University of Medical Sciences

**Full name of responsible person****Person responsible for scientific inquiries****Contact****Name of organization / entity**

Esfahan University of Medical Sciences

**Full name of responsible person**

Hossein Saneian

**Position**

Member of Faculty of Medicine/ MD, Pediatrician

**Latest degree**

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**Other areas of specialty/work**

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**Person responsible for updating data****Contact****Name of organization / entity**

Islamic Azad University

**Full name of responsible person**

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**Position**

Student

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**Other areas of specialty/work**

General Practitioner

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**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