

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

27 May 2026

### Comparative Clinical Trial of Mebendazole, Praziquantel and Metronidazole in treatment of human Giardiasis

#### Protocol summary

##### Summary

To search for a safe and effective anti Giardiasis drug, we investigated the effect of Mebendazole and Praziquantel in comparison with Methronidazole. Study population consisted of patients with gastrointestinal complaints, including diarrhea, weight loss, anorexia or fatigue, referred to rural health care centers in Kohrang located in southwest of Iran where Giardiasis is high endemic. 600 people aged 2-30 years were subjected to stool examination using either wet smear or concentration methods in 2008. Parasite cyst or trophozoite were detected in 90 patients and they were considered positive for Giardiasis. All these patients were entered the study with informed consent of their parents or themselves and divided randomly into three groups. In first group, 30 cases were given Metronidazole in tablet or liquid form 20 mg/kg daily in three doses for 7 days. Second group were treated with Mebendazole in tablet form as single dose. Third group were given 20 mg/kg Praziquantel as single dose. To evaluate the effectiveness of the therapy, at least three stool samples from all cases were examined on the 7th, 10th and 14th days following completion of treatment by the same methods of primary stool examination and also by the same microscopists. Clinical symptoms of the patients were also recorded in each group before and after treatment.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT138708131431N1**  
Registration date: **2011-10-05, 1390/07/13**  
Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2011-10-05, 1390/07/13

##### Registrant information

###### Name

Reza Imani

###### Name of organization / entity

Shahrekord university of medical sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 38 1333 0061

###### Email address

imani-r@skums.ac.ir

##### Recruitment status

###### Recruitment complete

##### Funding source

Shahrekord university of medical sciences

##### Expected recruitment start date

2008-05-01, 1387/02/12

##### Expected recruitment end date

2008-07-29, 1387/05/08

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparative Clinical Trial of Mebendazole, Praziquantel and Metronidazole in treatment of human Giardiasis

##### Public title

Treatment of Giardiasis with Praziquantel or Mebendazole

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: Patients with gastrointestinal

complaints including diarrhea; weight loss; anorexia or fatigue and positive for Giardiasis. Exclusion criteria: Drug side effects; Immune deficiency; consumption of current antibiotic.

#### Age

From **2 years** old to **30 years** old

#### Gender

Both

#### Phase

3

#### Groups that have been masked

*No information*

#### Sample size

Target sample size: **600**

#### Randomization (investigator's opinion)

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

Ethic committee of Shahrekord university of medical sciences

##### Street address

Shahrekord university of medical sciences, khashani avenue

##### City

Shahrekord

##### Postal code

8815713471

#### Approval date

2007-10-15, 1386/07/23

#### Ethics committee reference number

6-7-86

## Health conditions studied

### 1

#### Description of health condition studied

giardiasis

#### ICD-10 code

A07.1

#### ICD-10 code description

Giardiasis [Iambliasis]

## Primary outcomes

### 1

#### Description

treatment of giardiasis

#### Timepoint

7-10 dayes after treatment

#### Method of measurement

stool examination

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Group 1: single- dose of Mebendazol 200mg.

#### Category

Treatment - Drugs

### 2

#### Description

Group 2: Metronidazole in tablet or liquid form 20 mg/kg daily in 3 doses for 7 days.

#### Category

Treatment - Drugs

### 3

#### Description

Group 3: 20mg/kg Praziquantle as single dose.

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Sharekord university of medical sciences

##### Full name of responsible person

##### Street address

##### City

Sharekord

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Shahrekord university of medical sciences

##### Full name of responsible person

Dr. Mahmood Mobasheri

##### Street address

Shahrekord university of medical sciences, Kashani

avenue

**City**

Sharekord

**Grant name**

**Grant code / Reference number**

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

Yes

**Title of funding source**

Shahrekord 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**

Shahrekord university of medical sciences

**Full name of responsible person**

Dr. Reza Imani

**Position**

spetialist

**Other areas of specialty/work**

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avenue

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**Person responsible for updating data**

**Contact**

**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*