

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 Metronidazole. 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

Street address

Shahrekord university of medical sciences, Kashani
avenue

City

Shahrekord

Postal code

Phone

+98 38 1333 0062

Fax

Email

rastabi669@gmail.com

Web page address

Person responsible for scientific 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

Street address

Shahrekord university of medical sciences, Kashni
avenue

City

Shahrekord

Postal code

Phone

+98 38 1333 0062

Fax

Email

imanir46@yahoo.com

Web page address

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