

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

Effect Of Oral Pentoxifyllin On Spermogram In Olygoastenosperm Men

Protocol summary

Summary

The purpose of this clinical trial study was to investigate the effectiveness of oral Pentoxifyllin on the improvement of quality of sperm analysis parameters. Study participants were recruited from the patients who referred to infertility department of AlZahra hospital of Tabriz. 61 participants in this study received Pentoxifyllin, 400 mg three times a day, for three months. Outcome measures were volume of semen, sperm motility, percentage of normal morphology, and sperm count.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201009094721N1**

Registration date: **2010-09-26, 1389/07/04**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2010-09-26, 1389/07/04

Registrant information

Name

Kamaladdin Hassanzadeh

Name of organization / entity

Tabriz University Of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 1477 1622

Email address

hassanzadehka@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Tabriz University Of Medical Sciences

Expected recruitment start date

2001-09-23, 1380/07/01

Expected recruitment end date

2002-09-23, 1381/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect Of Oral Pentoxifyllin On Spermogram In Olygoastenosperm Men

Public title

Effect of Oral Pentoxifyllin on Spermogram

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion Criteria: Men with primary infertility, having analysis of sperm before treatment, presence of olygoastenospermia Exclusion Criteria: Contraindication of pentoxifyllin, Other medical diseases (diabetes, hypertension, ...), any drug consumption

Age

No age limit

Gender

Male

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **61**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used
Assignment
Single
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Medical Faculty Of Tabriz University Of Medical Sciences

Street address

Tabriz University Of Medical Sciences, Daneshgah street

City

Tabriz

Postal code

Approval date

empty

Ethics committee reference number

20568/4

Health conditions studied

1

Description of health condition studied

Male infertility

ICD-10 code

N46

ICD-10 code description

Male infertility, Oligospermia NOS

Primary outcomes

1

Description

Motility of sperm

Timepoint

before treatment and 3 monthes aftter treatments

Method of measurement

Percentage of sperms with mobile flagel

2

Description

volume of semen

Timepoint

3 months

Method of measurement

volume of semen in ml

3

Description

morphology of sperm

Timepoint

before treatment and 3 monthes after treatment

Method of measurement

labratory survey: 60% of sperms with normal morphology and lower than 3% immature form

4

Description

total number of sperms

Timepoint

before treatments and 3 months after treatment

Method of measurement

count of total sperm in microscopic field

Secondary outcomes

empty

Intervention groups

1

Description

Intervention: oral pentoxifylin Dosage, 400 mg 3 times a day, for 3 months, oraly

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Alzahra Infertility Research Center

Full name of responsible person

Dr. Kamaladdin Hassanzadeh

Street address

Alzahra Research and Infertility Center, Artesh jonoobi street,

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tabriz University Of Medical Sciences

Full name of responsible person

Dr. Kamaladdin Hassanzadeh

Street address

Faculty of Medicine, Tabriz University of Medical Sciences, Daneshgah street

City

Tabriz

Grant name

Grant code / Reference number

Is the source of funding the same sponsor

organization/entity?

Yes

Title of funding source

Tabriz 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**

Tabriz university Of Medical Sciences

Full name of responsible person

D. Kamaladdin Hassanzadeh

Position

Academic member of urology

Other areas of specialty/work**Street address**

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Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Tabriz University Of Medical Sciences

Full name of responsible person

Dr. kamaladdin hassanzadeh

Position

Assistant Professore Of Urology

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Tabriz University Of Medical Sciences

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Position

Academic member /Msc

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Web page address**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