Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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 Pentoxyfilin 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 Pentoxyfilin, 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

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Name of organization / entity
Tabriz University Of Medical Sciences
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Iran (Islamic Republic of)
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Recruitment status

Recruitment complete

Funding source

Tabriz University Of Medical Scienses

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 pentoxyfilin, 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 nomber 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 Scienses
Full name of responsible person
Dr. Kamaladdin Hassanzadeh
Street address
Faculty of Medicine, Tabriz University of Medical Scienses, 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 Scienses
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
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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