

Clinical Trial Protocol

Iranian Registry of Clinical Trials

01 Jun 2026

Effect of pentoxifylline on motility & viability of spermatozoa from infertile asthenozoospermic males

Protocol summary

2015-06-13, 1394/03/23

Summary

The main objective of this study is the effect of pentoxifylline in asthenospermic infertile males, on sperms motility and survival in culture. In a randomized unit-central clinical trial, 26 patients with sperm motility Less than 50% of progressive type or less than 25 percent of type of quickly " progressive referring to infertility clinic of Alzahra Hospital, Tabriz, Iran, will be randomly assigned to two groups, 13 patients in case group and 13 patients in control group. The patient will be excluded from study if receiving pentoxifylline orally for 9 hours before sampling. After sampling with using standard methods and Sperm separation with methods Swim up, to case group Pentoxifylline at a dose of 3.5 mmol (one mg per ml) will be added and the control samples are examined in normal conditions. after 45 minutes, the motility and survival of sperm will be examined in both groups. Then the two samples with the same amount (250000 cells) 10 drop equal to 50 micro liter of the ISM1 environment. Then, after 24,36,48 hours will be checked the percentage of sperm alive and moving in two group. In this study, the primary outcome, is Sperm motility. The examiner will be unaware the intervention was carried out and this study is single blind.

General information

Acronym

-

IRCT registration information

IRCT registration number: **IRCT201110175942N1**

Registration date: **2015-06-13, 1394/03/23**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

Registrant information

Name

Aliye Ghasemzadeh

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 3553 9160

Email address

gasemzadeha@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for Research, Tabriz University of Medical Sciences

Expected recruitment start date

2015-06-10, 1394/03/20

Expected recruitment end date

2016-06-09, 1395/03/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of pentoxifylline on motility & viability of spermatozoa from infertile asthenozoospermic males

Public title

Effect of pentoxifylline on motility & viability of spermatozoa from infertile asthenozoospermic males

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:motility of sperm <=50% or rapid

progressive <25% ; sperm count<20million per milliliter
exclusion criteria : Use of pentoxifylline on last 9 hour

Age

No age limit

Gender

Male

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 26

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

-

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Tabriz university

Street address

Golgasht Street ,Tabriz University Of Medical Sciences

City

Tabriz

Postal code

-

Approval date

2010-11-09, 1389/08/18

Ethics committee reference number

5/4/6353

Health conditions studied

1

Description of health condition studied

Male Infertility

ICD-10 code

N46

ICD-10 code description

Male infertility

Primary outcomes

1

Description

Motility of sperm

Timepoint

After 45 min,24,36,48 hour

Method of measurement

Sperm Test

Secondary outcomes

1

Description

Survival rates of sperm

Timepoint

After45 min,24,36,48 hour

Method of measurement

Sperm Test

Intervention groups

1

Description

In the intervention group: immediately to the sperm samples of pentoxifylline in the amount of 3.5 mmol (one mg per ml) will be added.

Category

Treatment - Drugs

2

Description

In control group: samples are examined in normal conditions

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Infertility center of alzahra hospital

Full name of responsible person

Dr.Aliye Ghasemzadeh

Street address

Alzahra hospital

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for Research,Tabriz University Of Medical Sciences

Full name of responsible person

Dr.Mohammad Reza Rashidi

Street address

Third Floor, Central Building of Number2, Golgasht Street

City

Tabriz

Grant name

-

Grant code / Reference number

-

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

Yes

Title of funding source

Vice chancellor for Research,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

Alzahra hospital

Full name of responsible person

Dr.Aliye Ghasemzadeh

Position

Fellowship of Infertility

Other areas of specialty/work

Street address

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City

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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