

# 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**

Alzahra hospital

**City**

Tabriz

**Postal code**

-

**Phone**

+98 41 3557 1113

**Fax**

+98 41 3556 6449

**Email**

alghasemzadeh@yahoo.co.uk; lahroudin@gmail.com

**Web page address**

**Person responsible for scientific inquiries**

**Contact**

**Name of organization / entity**

Tabriz University Of Medical Sciences

**Full name of responsible person**

Dr. Aliye Ghasemzadeh

**Position**

Fellowship of Infertility

**Other areas of specialty/work**

**Street address**

Golgasht Street, Tabriz University Of Medical Sciences

**City**

Tabriz

**Postal code**

-

**Phone**

+98 41 3557 1113

**Fax**

+98 41 3556 6449

**Email**

alghasemzadeh@yahoo.co.uk; lahroudin@gmail.com

**Web page address**

-

**Person responsible for updating data**

**Contact**

**Name of organization / entity**

Tabriz University Of Medical Sciences

**Full name of responsible person**

Dr.Aliye Ghasemzadeh

**Position**

Fellowship of Infertility

**Other areas of specialty/work**

**Street address**

Golgasht Street ,Tabriz University Of Medical Sciences

**City**

Tabriz

**Postal code**

-

**Phone**

+98 41 3553 9161

**Fax**

+98 41 3556 6449

**Email**

alghasemzadeh@yahoo.co.uk; lahroudin@gmail.com

**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*