Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Nov 2026

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

Protocol summary

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

2015-06-13, 1394/03/23

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

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City

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Person responsible for scientific inquiries

Contact

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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