

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Treatment outcome of Co-enzyme Q10 (CoQ10) following varicocelelectomy

Protocol summary

Summary

This study was performed to determine the effect of Co-enzyme Q10 (CoQ10) on sperm parameters in patients with varicocele after varicocelelectomy. This is a randomized, triple blind, control trial among 50 patients. Fifty cases of varicocele after varicocelelectomy were divided into Co-Q10 (n = 25) and placebo groups (n = 25), the former given oral CoQ10 at 100mg daily and the latter given placebo in the same shape, color, size and dosage of the used CoQ10 for 6 months. Comparisons were made between the two groups in the semen volume, sperm motility, sperm morphology and sperm count. Inclusion criteria were candidacy for varicocelelectomy and exclusion criteria were positive history for surgery on genitourinary system, positive history for genitourinary infection, azoospermia and appearance of varicocelelectomy complications.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201110034181N7**

Registration date: **2011-10-26, 1390/08/04**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-10-26, 1390/08/04

Registrant information

Name

Yadollah Ahmadi AsrBadr

Name of organization / entity

Sina Hospital

Country

Iran (Islamic Republic of)

Phone

+98 41 1329 1924

Email address

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Tabriz University of medical sciences

Expected recruitment start date

2010-03-19, 1388/12/28

Expected recruitment end date

2011-02-25, 1389/12/06

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Treatment outcome of Co-enzyme Q10 (CoQ10) following varicocelelectomy

Public title

Treatment outcome of Co-enzyme Q10 on infertility

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: candidacy for varicocelelectomy.

Exclusion criteria: positive history for varicocelelectomy or other genitourinary surgery of any kind; positive history for genitourinary infection; azoospermia; appearance of varicocelelectomy complications; use of drugs in the last 3 months; smoking in the last 6 months; alcohol consumption in the last 6 months.

Age

No age limit

Gender

Male

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: 50

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Triple blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Tabriz university of medical sciences

Street address

Vice chancellor for research, Tabriz University of medical sciences, Daneshgah square

City

Tabriz

Postal code

51665118

Approval date

2011-10-19, 1390/07/27

Ethics committee reference number

9039

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

sperm count

Timepoint

6 months

Method of measurement

microscope

2

Description

sperm motility

Timepoint

6 months

Method of measurement

microscope

3

Description

semen volume

Timepoint

6 months

Method of measurement

volumeter

4

Description

sperm morphology

Timepoint

6 months

Method of measurement

microscope

Secondary outcomes

empty

Intervention groups

1

Description

Oral Co-enzyme Q10 100mg/OD, for 6 months

Category

Treatment - Drugs

2

Description

Oral placebo/OD for 6 months

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

clinics of Tabriz university of medical sciences

Full name of responsible person

Yadollah Ahmadi Asr Badr (urologist, assistant professor)

Street address

clinics of Sina hospital

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tabriz university of medical sciences

Full name of responsible person

Dr. Alireza Ostadrahimi

Street address

Tabriz university of medical sciences, Daneshgah square

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

Mehdi Hemmati

Position

Intern

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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