

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

28 Jun 2026

### The effect of varicocelectomy on ARTs indications on base of Kruger strict morphology test

#### Protocol summary

##### Summary

The purpose of this study was to evaluate the efficacy of varicocelectomy on improving ARTs (assisted reproductive techniques) indications on the base of Kruger strict morphology test. Method and materials: For assessing of improving ART levels after varicocelectomy in a randomized and case -control study we compared the results of sperm analysis parameters between 67 infertile operated patients with 71 matched no operated groups in one-year duration. All subjects included in this study (both study and control groups) had clinical varicoceles and were infertile, we excluded varicocele re-operated, with known infertility risk factors, singles, fertile or fertility history men, and wives older than 35-year-olds. Intervention: sub- Inguinal varicocelectomy with magnification in the study group. The primary outcome in this study was spermogram parameters (count, motility, and sperm morphology on Kruger standards) after the intervention, and their wife pregnancy was the secondary outcome at the end of study.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201611091981N7**

Registration date: **2017-05-06, 1396/02/16**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2017-05-06, 1396/02/16

##### Registrant information

##### Name

Ali Asghar Ketabchi

##### Name of organization / entity

Kerman University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 34 1211 4348

##### Email address

a\_ketabchi@kmu.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Physiology Research Center, Kerman University of Medical Sciences

##### Expected recruitment start date

2010-12-31, 1389/10/10

##### Expected recruitment end date

2013-12-31, 1392/10/10

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

The effect of varicocelectomy on ARTs indications on base of Kruger strict morphology test

##### Public title

varicocelectomy and ARTs indications

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: male gender; married; being infertile; clinical diagnosis for varicocele. Exclusion criteria: single; fertile; known other infertility factors.

##### Age

From **22 years** old to **28 years** old

##### Gender

Male

## Phase

N/A

## Groups that have been masked

No information

## Sample size

Target sample size: 255

## Randomization (investigator's opinion)

Randomized

## Randomization description

## Blinding (investigator's opinion)

Not blinded

## Blinding description

## Placebo

Not used

## Assignment

Parallel

## Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethical Committee of Kerman University of Medical Sciences

##### Street address

Kerman University of Medical Sciences

##### City

Kerman

##### Postal code

#### Approval date

2017-04-23, 1396/02/03

#### Ethics committee reference number

IR.KMU.REC.1396.03

## Health conditions studied

### 1

#### Description of health condition studied

Male infertility

#### ICD-10 code

I86.1

#### ICD-10 code description

Scrotal varices

## Primary outcomes

### 1

#### Description

spermogram

#### Timepoint

spermogram improvement

#### Method of measurement

spermanalysis kruger test

## Secondary outcomes

### 1

#### Description

wife pregnancy

#### Timepoint

12 months

#### Method of measurement

sonography

## Intervention groups

### 1

#### Description

watch full in control group with recommendations for avoiding known infertility risk factors

#### Category

Behavior

### 2

#### Description

sub inguinal varicocelelectomy by magnification in intervention group with recommendations for avoiding known infertility risk factors

#### Category

Treatment - Surgery

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

urology department, Bahonar Hospital, Kerman

##### Full name of responsible person

##### Street address

##### City

kerman

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Kerman University of Medical Sciences

##### Full name of responsible person

Dr. Hamid Najafi

##### Street address

Physiology Research Center, Kerman University of Medical Sciences

##### City

Kerman

#### Grant name

#### Grant code / Reference number

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

Yes

**Title of funding source**

Kerman 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**

Kerman University of Medical Sciences

**Full name of responsible person**

Dr. Ali Asghar Ketabchi

**Position**

Urologist

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**Web page address****Person responsible for updating data****Contact****Name of organization / entity**

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**Full name of responsible person**

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**Position**

Urology Associate Professor

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**Web page address****Person responsible for scientific inquiries****Contact****Name of organization / entity**

Kerman University of Medical Sciences

**Full name of responsible person**

Dr. Ali Asghar Ketabchi

**Position**

Urology Associate Professor

**Other areas of specialty/work****Street 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*