

Clinical Trial Protocol

Iranian Registry of Clinical Trials

02 Aug 2026

Comparison of results of doppler sonography before and after "laparoscopic artery and lymphatic sparing varicocelectomy" with microsurgical subinguinal varicocelectomy

Protocol summary

Study aim

Comparison of results of doppler sonography before and after "laparoscopic artery and lymphatic sparing varicocelectomy" with microsurgical subinguinal varicocelectomy

Design

A concealed, randomized, blinded, sham controlled clinical trial with a parallel group design of 38 patients.

Settings and conduct

Khuzestan, Emam hospital, clinical trial

Participants/Inclusion and exclusion criteria

Inclusion criteria: Varicocele involvement
Exclusion criteria: history of coagulation disorders; urinary tract infection

Intervention groups

group A: Patients will be treated with direct access to Subinguinal microsurgery method. group B: Patients will be treated with Laparoscopic method.

Main outcome variables

Body mass index, varicocele severity, varicocele latency, duration of hospitalization, surgical cutting size, artery diameter, vein diameter.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20190519043633N1**
Registration date: **2019-05-28, 1398/03/07**
Registration timing: **prospective**

Last update: **2019-05-28, 1398/03/07**

Update count: **0**

Registration date

2019-05-28, 1398/03/07

Registrant information

Name

Sepehr Esmaeili

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 61 3734 5759

Email address

hmojk@yahoo.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-06-04, 1398/03/14

Expected recruitment end date

2019-11-05, 1398/08/14

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of results of doppler sonography before and after "laparoscopic artery and lymphatic sparing varicocelectomy" with microsurgical subinguinal varicocelectomy

Public title

The effect of Doppler ultrasonography on varicocele surgery

Purpose

Diagnostic

Inclusion/Exclusion criteria

Inclusion criteria:

Patients who have varicocele symptoms.

Exclusion criteria:

The patient has an active urinary tract infection. Patients with a history of coagulation disorders.

Age

No age limit

Gender

Male

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 38

Randomization (investigator's opinion)

Randomized

Randomization description

Based on the 4-block method, individuals will be divided randomly into two equal groups.

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**

کمیته اخلاق دانشگاه علوم پزشکی جندی شاپور اهواز, خوزستان

Street address

Golestan Blvd

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Khouzestan

Postal code

61357-15794

Approval date

2019-05-10, 1398/02/20

Ethics committee reference number

IR.AJUMS.REC.1398.139

Health conditions studied**1****Description of health condition studied**

Varicocele

ICD-10 code**ICD-10 code description****Primary outcomes****1****Description**

Time of Hospitalization

Timepoint

The duration of treatment

Method of measurement

The duration of hospitalization

2**Description**

Severity of varicocele

Timepoint

1 and 2 months after surgery

Method of measurement

With clinical examination

Secondary outcomes**1****Description**

Hydrocele

Timepoint

2 and 3 weeks after surgery

Method of measurement

With clinical examination

2**Description**

Artery diameter

Timepoint

1 and 3 months after surgery

Method of measurement

with doppler sonography

3**Description**

Vein diameter

Timepoint

1 and 3 months after surgery

Method of measurement

with doppler sonography

Intervention groups**1****Description**

Intervention group: Patients will be treated with subinguinal microsurgical method.

Category

Treatment - Surgery

2**Description**

Intervention group: Patients will be treated with laparoscopic method.

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Emam Hospital

Full name of responsible person

Sepehr esmaeili

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Shahid ahvazian street

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Dr Hayat Mombeini

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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Ahvaz University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

Sepehr Esmaeili

Position

Resident of Urology

Latest degree

Medical doctor

Other areas of specialty/work

Urology

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Assistant Professor

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Urology

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

No - There is not a plan to make this available