

Clinical Trial Protocol

Iranian Registry of Clinical Trials

21 Jun 2026

Comparison the effect of ovarian suspension and hyaluronic acid gel in prevention of ovarian re-adhesion after laparoscopic surgery for stage 3&4 endometriosis. A Randomized, Double-blind Clinical trial

Protocol summary

Summary

This study aimed to Comparison the effect of ovarian suspension and hyaluronic acid gel in prevention of ovarian re-adhesion after laparoscopic surgery for stage 3&4 endometriosis. After confirming the inclusion criteria and obtain the written consent of the individual, randomly one of the ovaries of the group ovarian suspension and the other hyaluronic acid gel is assigned. For random allocation of ovaries in each one of random sampling and in order to hide the sealed envelopes and then use the results of an ultrasound can be used during laparoscopy. The patients in the laparoscopic surgery and after the release of adhesions, a fixed ovaries and ovarian abdomen is covered by the Endogel. The patients after surgery then will be assessed 3 month later. Sample size in study is 50 patients. The primary outcome is the occurrence of adhesions that this will be assessed by ultrasound. Secondary outcomes include the severity of adhesions, the degree and depth of ovarian inactivity is determined by ultrasound. Inclusion criteria, all patients 18 to 40 years old with chronic pelvic pain of endometriosis with grade 3 and 4, severe menstrual pain, suffering and in examinations and tests, ultrasound or MRI strong doubt has been created to endometriosis. Exclusion criteria include patients who have a tendency to review the plan or during laparoscopic bilateral ovarian adhesion is not observed.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015081723666N1**
Registration date: **2015-12-19, 1394/09/28**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2015-12-19, 1394/09/28

Registrant information

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Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Iran University of Medical Sciences

Expected recruitment start date

2015-12-01, 1394/09/10

Expected recruitment end date

2016-11-01, 1395/08/11

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison the effect of ovarian suspension and hyaluronic acid gel in prevention of ovarian re-adhesion after laparoscopic surgery for stage 3&4 endometriosis. A Randomized, Double-blind Clinical trial

Public title

The effect of ovariopexy and endogel in prevention of

endometriosis readhesion

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: 18 to 40 years old patients suspicious to stage 3 & 4 endometriosis, because of chronic pelvic pain, severe dysmenorrhea dyspareunia and infertility, positive physical examinations and related tumor markers, ultrasound or MRI, who are candidate for laparoscopic surgery and have signed a consent form.

Exclusion criteria: Patients who have not signed the consent form and have not shown bilateral ovarian adhesions at the time of laparoscopy, or have any contraindication for surgery and anesthesia.

Age

From **18 years** old to **40 years** old

Gender

Female

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double 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 Iran University of Medical Science

Street address

Iran . Tehran . Hemat Highway . Milad Tower

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Tehran

Postal code

Approval date

2015-08-03, 1394/05/12

Ethics committee reference number

IR.IUMS.REC.1394

Health conditions studied

1

Description of health condition studied

Endometriosis

ICD-10 code

N 80.0

ICD-10 code description

Endometriosis of uterus

Primary outcomes

1

Description

Ovarian adhesion

Timepoint

3 months after surgery

Method of measurement

To determine the adherence of patients a questionnaire developed by the researchers used ultrasound accreditation by the outcome of the results of ultrasound during laparoscopy is examined

Secondary outcomes

1

Description

pain

Timepoint

3 month after operation

Method of measurement

Visual analogue scale

Intervention groups

1

Description

Application of Hyaluronic Acid gel to to the adhesion site.

Category

Prevention

2

Description

Fixation of the ovary to abdominal wall

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Rasoul e Akram Hospital

Full name of responsible person

Abolfazal Mehdizadeh Kashi

Street address

Niayesh Av. Sattar khan St. Tehran, Iran

City

Tehran

2

Recruitment center

Name of recruitment center

Pars General Hospital

Full name of responsible person

Dr. Shahla Chaichian

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No11, Saeedi Alley, Fereshteh St

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Dr. Ali Javad Musavi

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Research Deputy office of Iran University of Medical Sciences

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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

Iran 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

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Full name of responsible person

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Position

MD. Professor of Obstetrics and Gynecology

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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