Clinical Trial Protocol
Iranian Registry of Clinical Trials

26 Jun 2026

Assessment of the effect of Vasopressin injection on decreasing time of surgery and need to electrooagulation for hemostasis during laparascopic cystectomy of patients refered to Zanan Hospital because of endometriomas

Protocol summary

Summary

The aim of this prospective study is to assess the effect of vasopressin in reducing time of surgery and need for coagulation for hemostasis during laparascopic cystectomy for endometrioma. The inclusion criteria are unilateral ovarian endometrioma(4-7 centimeters) and age 18-35years old. The exclusion criteria are prior ovarian surgery and usage of oral contraceptive before surgery. According to these criteria 14 female randomly would be put inside 2 seperate groups of 7 persons;first group undergoes laparascopic cystectomy with hydrodissection with normal saline and second group undergoes laparascopic cystectomy with hydrodissection with normal saline plus vasopressin. All the surgerys will be done by an experienced surgen. In the case group, 3 milliliter (0.3 units) diluted vasopressin(200 folds)will be injected to the border of cyst wall and ovarian healthy tisuue for hydrodissection. Ovarian reserve will be measured by sonography to assess antral follicle count and serum follicual stimulating hormone before and 2 regular menstural cycles after surgery in the early proliferative phase of menstural cycle (days 3-6) .During operation,if needed electrocoagulation bipolar (35 watt) will be used to achieve hemostasis.The film of surgery will be reviewed for checking the operation time,and the number of electrocoagulation used. All patients will be assessed bleeding by checking the hemoglubin before and 72 hours after the surgery.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013012512262N1**
Registration date: **2013-04-05, 1392/01/16**
Registration timing: **registered_while_recruiting**
Last update:
Update count: **0**

Registration date

2013-04-05, 1392/01/16

Registrant information

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Tehran University of Medical Sciences
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Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences

Expected recruitment start date

2012-05-03, 1391/02/14

Expected recruitment end date

2013-04-20, 1392/01/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Assessment of the effect of Vasopressin injection on decreasing time of surgery and need to electrooagulation for hemostasis during laparascopic cystectomy of patients refered to Zanan Hospital because of endometriomas

Public title
The effect of Vasopressin on decreasing time of surgery
Purpose
Treatment
Inclusion/Exclusion criteria
Inclusion criteria:female;18-35 years old; a unilateral ovarian endometrioma; regular menstrual cycles exclusion criteria : female younger than 18;female older than 35;bilateral ovarian cyst;irregular menstural cycles; prior ovarian surgery ;usage of oral contraceptive pills before surgery;diagnosis of malignancy
Age
From **18 years** old to **35 years** old
Gender
Female

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **14**
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 Tehran University of Medical Science
Street address
Tehran University of Medical Science, Poursina Ave, Keshavarz Blvd, Tehran, Iran
City
Tehran
Postal code
Approval date
2013-01-13, 1391/10/24
Ethics committee reference number
91/130/2628/د

Health conditions studied

1

Description of health condition studied
Ovarian Endometrioma
ICD-10 code
N80.1
ICD-10 code description
Endometriosis of ovary

Primary outcomes

1

Description
operation time
Timepoint
from the begining of dissection of the cyst wall till the complete dissection
Method of measurement
seconds

2

Description
electrocagulation to achieve hemostasis
Timepoint
during operation
Method of measurement
counting the number of it in the film of surgery

Secondary outcomes

1

Description
ovarian reserve
Timepoint
before and 2 months after surgery
Method of measurement
antral follicules by sonography

2

Description
bleeding rate
Timepoint
before and 72 houres later than surgery
Method of measurement
hemoglubin (mg/dl)

Intervention groups

1

Description
In case group,before the dissection of cyst wall ,3 mililiters containing 0.3 units diluted vasopressin of an ampule of vasopressin named (Hypress) which contains 20 units of vasopressin and diluted 200 times by adding 200 mililiters normal salin will be injected in the space between cyst wall and ovary by the specific needle,the injection will be in one place near the grater vessels. Then, 50-70 mililiters normal saline will be injected in multiple points . The cyst wall will be sent for pathological evaluation after stripping.Then the cyst`s

bed would be assessed for bleeding and if needed electrocoagulation would be used for hemostasis

Category

Treatment - Surgery

2

Description

In control group,before the dissection of cyst wall , 50-70 mililiters of normal saline will be injected in multiple points in the space between cyst wall and ovary by the specific needle,the. Then, The cyst wall will be sent for pathological evaluation after stripping.Then the cyst`s bed would be assessed for bleeding and if needed electrocoagulation would be used for hemostasis

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

The Great Women Hospital

Full name of responsible person

Dr Mina Akrami

Street address

The Great Women Hospital

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Science,

Full name of responsible person

Dr.Akbar Fotuhi

Street address

Tehran University of Medical Science,Vice Chancellor of Research

City

Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Tehran University of Medical Science,

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

Dr Marzie Ghafarnejhad

Position

Assistant Professor

Other areas of specialty/work

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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