Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

The effect of Stellate Ganglion Block on hemodynamic intraoperative and postoperative complications of Laparoscopic Surgery in women

Protocol summary

Summary

Objective: Hemodynamic changes are a major cause of concern in laparoscopic surgery. Design and Participants:In this study 60 patients, intraoperative hemodynamic effect of satellite ganglion block and complications after laparoscopic surgery for women is investigated.Intervention:Fifteen minutes before induction of anesthesia and involves an ultrasound exam with 10 mL of lidocaine 1% in the intervention group satellite ganglion block and control group are also listed conditions will receive 10 cc distilled water as placebo.Induction of anesthesia, care and monitoring of patients perform by second doctor who is blinded to groups. Main outcome:All hemodynamic parameters such as blood pressure, heart rate, especially in periods after intubation, during and after blowing a CO2 gas switching positions (Trendelenburg) is recorded.After the surgery, the postoperative pain using the NRS criteria will be measured.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017012510599N14**
Registration date: **2017-08-17, 1396/05/26**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2017-08-17, 1396/05/26

Registrant information

Name

Poupak Rahimzadeh

Name of organization / entity

Iran University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Iran University of Medical Sciences

Expected recruitment start date

2017-08-15, 1396/05/24

Expected recruitment end date

2018-08-21, 1397/05/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of Stellate Ganglion Block on hemodynamic intraoperative and postoperative complications of Laparoscopic Surgery in women

Public title

Control Blood Pressure and Heart Rate during Laparoscopic Surgery with Stellate Ganglion Block

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: women 40-20 years; Candidate for elective laparoscopic surgery; ASA I-II class Exclusion criteria: ASA III class or above; Emergency Surgery; chronic use of pain medication, alcohol or drug addiction; BMI over 30 ; ischemic heart disease; hypertension; renal dysfunction; Diabetes; Anti-coagulant therapy

Age

From **19 years** old to **39 years** old

Gender
Female

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **60**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Double blinded
Blinding description
Placebo
Used
Assignment
Parallel
Other design features
Patients randomized method with block randomization divided in two groups of intervention and control groups

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Iran University of Medical Sciences
Street address
Hemat exp Way, Tehran, Iran
City
tehran
Postal code
Approval date
2016-12-10, 1395/09/20
Ethics committee reference number
IR.IUMS.REC 1395.95-03-218-29652

Health conditions studied

1

Description of health condition studied
Relationship of Stellate Ganglion Blood with Hemodynamics During Operation and Post-Operative Complications in women
ICD-10 code
Z01.3
ICD-10 code description
Examination Of Blood Pressure

Primary outcomes

1

Description
BloodPressure
Timepoint
In the beginning, after induction, after intubation, after insufilation gas, while repositioning, the net outflow of gas, in recovery
Method of measurement
Automatic non-invasive blood pressure measurement

2

Description
Heart Reate
Timepoint
At first- after induction, after intubation, after insuffilation Tzyq gas, while repositioning, the net outflow of gas, in recovery
Method of measurement
Continuous monitoring heart rate

3

Description
post operative pain
Timepoint
The beginning of the recovery, 30 minutes later, 24 hours after surgery.
Method of measurement
Numerical pain scale (NRS is a standard measure)

Secondary outcomes

1

Description
Conjectival and nasal congestion
Timepoint
Immediately after injection
Method of measurement
visual

Intervention groups

1

Description
Group Intervention: Fifteen minutes before induction of anesthesia in the operating room, after moving Vdrp and appropriate positions under the guidance of sonography in patients with 10 mL of 1% lidocaine blockade of the stellate ganglion block. we used the linear high frequency trancducer (6-13 mhz).
Category
Treatment - Drugs

2

Description
Control group: Fifteen minutes before induction of anesthesia in the operating room, after moving Vdrp and appropriate positions under the guidance of sonography in patients with 10 ml of distilled water are placed under the stellate ganglion block. we used the linear high

frequency trancducer (6-13 mhz).

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Hazrat - E Rasool Hospital

Full name of responsible person

Poupak Rahim Zadeh

Street address

HAZRAT - E Rasool Hospital, Iran University of Medical Science, Niayesh, Tehran

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Iran University of Medical sciences

Full name of responsible person

Ali javad Mosavi

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Iran University of Medical Sciences, Hemat, Tehran

City

Tehran

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

Iran University of Medical Sciences

Full name of responsible person

Maryam Khodaverdi

Position

Anesthesiology Residents

Other areas of specialty/work

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Person responsible for scientific inquiries

Contact

Name of organization / entity

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Full name of responsible person

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Associated professor of Anesthesioligy-Pain FellowShip

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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