Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Jul 2026

A survey on analgesic effects of ultrasonographic transabdominal plane block for postoperative pain control of abdominal hysterectomy

Protocol summary

Summary

Pain and discomfort after abdominal hysterectomy is high and most of it is due to abdominal incision. Aberrant sensory nerves pass from the fascia between abdominal muscles and with trans-abdominal block we can control pain. We usually use epidural or intravenous narcotics to control pain but these ways have side effects like vomiting. With trans-abdominal block we have a simple way to control pain without entering the epidural space. But unfortunately this method is not well recognized by anesthesiologists, so we decided to do this research and declare its results to anesthesiologists. All patients that have gone under abdominal hysterectomy with pfanenstiel incision and don't have systemic and neurologic diseases will be invited to participate in this study. We will put them randomly in two groups. For the first group we will use trans-abdominal block with pain pump and for other group only pain pump will be used. At 2, 6, 12, 24 and 48 hours after operation we will measure score of pain and satisfaction with Visual Analogue Scale test and Global Clinical Improvement and then we will compare the amount of pain scores and the amount of fantanyle is used in the two groups.

General information

Acronym

A survey on analgesic effects of trans abdominal block

IRCT registration information

IRCT registration number: **IRCT2013021012151N1**
Registration date: **2013-03-10, 1391/12/20**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2013-03-10, 1391/12/20

Registrant information

Name
Fariba Almassinokiani
Name of organization / entity
Iran University of Medical Sciences
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Iran (Islamic Republic of)
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Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences

Expected recruitment start date

2013-02-28, 1391/12/10

Expected recruitment end date

2014-03-01, 1392/12/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A survey on analgesic effects of ultrasonographic transabdominal plane block for postoperative pain control of abdominal hysterectomy

Public title

Effects of transabdominal plane block for postoperative pain control of hysterectomy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: All of elective abdominal hysterectomies with pfanenstiel incision will enter to our study. Exclusion criteria: If the patient doesn’t accept;

local anesthetic drugs allergy; infection on injection site; coagulation disorders; medical disorders that interfere with interpretation of pain; addiction to elicit drugs or alcohol; liver or renal insufficiency; sever obesity.

Age
From **15 years** old to **45 years** old

Gender
Female

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **64**

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
Tehran University of Medical Sciences

Street address
Poursina street , Enghelab AVE, Tehran , Iran

City
Tehran

Postal code

Approval date
2012-10-08, 1391/07/17

Ethics committee reference number
17543-30-01-91

Health conditions studied

1

Description of health condition studied
Analgesic effect of trans abdominal block on post abdominal hysterectomy pain

ICD-10 code
Z41.8

ICD-10 code description
Other procedures for purposes other than remedying health state

Primary outcomes

1

Description
Severity of post operation pain

Timepoint
2 and 6 and 12 and 24 and 48 hours after operation

Method of measurement
Visual Analogue Scale test

Secondary outcomes

1

Description
Amount of patient's satissfaction from after operation analgesia

Timepoint
2 and 6 and 12 and 24 and 48 hours after operation

Method of measurement
Global Clinical Improvement (GCI) Test

2

Description
The amount of Fantanyle that will be used for pain pump

Timepoint
2 and 6 and 12 and 24 and 48 hours after operation

Method of measurement
Micro geram of fantanyle that will be necessery for pain pump

Intervention groups

1

Description
Intervention group: we use trans abdominal block with pain poump for post abdominal hysterectomy pain control

Category
Other

2

Description
control group : only using pain pump for control of after operation pain

Category
Other

Recruitment centers

1

Recruitment center

Name of recruitment center
Rasoul Akram Hospital

Full name of responsible person
Dr Farnad Imani

Street address

pain ward ; 4th stage ; Rasoul Akram Hospital ; Niayesh Street ; Sattarkhan Street

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Dr Fariba Almassinokiani

Street address

Rasoul Akram Hospital , Niayesh street, Sattarkhan street

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 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

Tehran University of Medical Sciences

Full name of responsible person

Dr Fariba Almassinokiani ; Dr Farnad Imani

Position

Obstetrician and Gynecologist ; Anesthesiologist (pain)

Other areas of specialty/work

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Position

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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