Clinical Trial Protocol
Iranian Registry of Clinical Trials

10 Jun 2026

The effectivness of transverse abdominal plane block in reducing post laparascopic cholecystectomy pain in Shariati hospital

Protocol summary

Summary

Transversus abdominis plane (TAP) block is a recently introduced regional anesthesia technique which was used for postoperative pain reduction in some of the abdominal surgeries. Present study evaluated the efficacy of the TAP block on the post laparascopic cholecystectomy pain intensity and analgesic consumption. Fifthy four patients were enrolled in three groups: TAP block with normal salin (group 1, n=18), TAP block with bupivacain (group 2, n=18) and TAP block with bupivacain plus sufentanil (group 3, n=18). The time to the first fentanyle request, fentanyl consumption in 24 hours following surgery, and postoperative pain intensity at the half, one, six, 12 and 24 hours following discharge of recovery were measured and recorded.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201401255140N13**
Registration date: **2014-04-12, 1393/01/23**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2014-04-12, 1393/01/23

Registrant information

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Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences, Anesthesiology department, Shariati Hospital; investigator

Expected recruitment start date

2012-03-01, 1390/12/11

Expected recruitment end date

2013-03-01, 1391/12/11

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effectivness of transverse abdominal plane block in reducing post laparascopic cholecystectomy pain in Shariati hospital

Public title

The effectivness of transverse abdominal plane block in reducing post laparascopic cholecystectomy pain in Shariati hospital

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria; all candidates with laparascopic cholecystectomy; age between 20-65 years old; without any allergy to the drugs use in this study; addiction; without infection at the side of needle insertion; without contraandication for TAP block. Exclusion criteria: any patients with surgical complication; and in cases which operation last more than 3 hours; the cases were excluded from study.

Age

No age limit

Gender
Both

Phase
2
Groups that have been masked
No information
Sample size
Target sample size: **54**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Double blinded
Blinding description
Placebo
Used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethic comittee, Faculty of medicine of Tehran university of Medical Sciences
Street address
Tehran University of medical science
City
Tehran
Postal code
14117
Approval date
2010-08-20, 1389/05/29
Ethics committee reference number
436

Health conditions studied

1

Description of health condition studied
post-op pain
ICD-10 code
R52
ICD-10 code description
pain

Primary outcomes

1

Description
The first time of requesting opioid for releasing the pain from patient
Timepoint
0, 0.5, 1 , 6, 12, 24 hours after surgery
Method of measurement
Whole amount of opioid usage with PCA pomp in PACU recorded by an expert physician

Secondary outcomes

1

Description
Variation of the post-op pain
Timepoint
0, 1, 3, 6, 12, 24 hours after surgery
Method of measurement
Recording the pain score with the protocol of VAS system by an expert phycision

Intervention groups

1

Description
intervention groups group 1: receive either 30 ml of bupivacaine 0.5% plus 2-ml normal salin, 16-ml in each side (n=18) group 2: 30 ml of bupivacaine 0.5% plus 2 ml sufentanil, 16 ml in each side (n=18) at the end of surgical procedure
Category
Treatment - Drugs

2

Description
Control group: 32 ml of 0.9% normal salin 16 ml in each side (n=18), at the end of surgical procedure
Category
Placebo

Recruitment centers

1

Recruitment center
Name of recruitment center
Dr. Ali Shariati Hospital
Full name of responsible person
Dr Ali Movafegh
Street address
Anesthesiology department, Dr shariati hospital, Tehran University of medical science
City
Tehran

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Tehran university of medical science

Full name of responsible person
Dr. Shahin Akhoondzadeh
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Vice Chancellor for research , Tehran University of Medical Sciences, North Kargar Ave, Tehran, Iran
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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

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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