

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

The effectiveness of transverse abdominal plane block in reducing post laparoscopic 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 laparoscopic cholecystectomy pain intensity and analgesic consumption. Fifty four patients were enrolled in three groups: TAP block with normal saline (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 fentanyl 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 effectiveness of transverse abdominal plane block in reducing post laparoscopic cholecystectomy pain in Shariati hospital

Public title

The effectiveness of transverse abdominal plane block in reducing post laparoscopic cholecystectomy pain in Shariati hospital

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria; all candidates with laparoscopic 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 contraindication 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 committees1**Ethics committee****Name of ethics committee**

Ethic committee, 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 studied1**Description of health condition studied**

post-op pain

ICD-10 code

R52

ICD-10 code description

pain

Primary outcomes1**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 pump in PACU recorded by an expert physician

Secondary outcomes1**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 physician

Intervention groups1**Description**

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

Category

Placebo

Recruitment centers1**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

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Sponsors / Funding sources1**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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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**

Anesthesiology Dep, Tehran University of Medical Sciences

Full name of responsible person

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Professor

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Person responsible for updating data**Contact****Name of organization / entity**

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MD, resident of anesthesiology

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Web page address**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*