

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Jun 2026

Comparing the effects of intraperitoneal and subcutaneous injection of Bupivacaine on postoperative pain of appendicitis

Protocol summary

Summary

The aim of this study is to compare the effect of peritoneal infiltration and subcutaneous infiltration of Bupivacaine 0.5 % on postoperative pain in patients with acute Appendicitis. In this double-blind clinical trial, 126 patients aged 15-45years, with acute Appendicitis in Kashasn Shaheed Beheshti Hospital will be recruited. Patient will be randomly allocated into three groups. In group A, peritoneal infiltration of 0.5% Bupivacaine and in group B, subcutaneous infiltration of 0.5% Bupivacaine will be performed. Group C will have no injection. Postoperative pain will be evaluated using a self-administered visual analogue scale (VAS) as primary outcome measure. The usage of Pethedine in 24 hours after operation will be recorded.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201109067491N1**

Registration date: **2011-10-16, 1390/07/24**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-10-16, 1390/07/24

Registrant information

Name

Mehdi Zanganeh

Name of organization / entity

Kasahan

Country

Iran (Islamic Republic of)

Phone

+98 36 1562 0390

Email address

zangane_m@kaums.ac.ir

Recruitment status

Recruitment complete

Funding source

Kashan Univercity of Medical Sciences

Expected recruitment start date

2010-06-22, 1389/04/01

Expected recruitment end date

2010-11-20, 1389/08/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing the effects of intraperitoneal and subcutaneous injection of Bupivacaine on postoperative pain of appendicitis

Public title

Comparing the effect of peritoneal infiltration and subcutaneous infiltration of Bupivacaine 0.5 % on postoperative pain in patients with acute Appendicitis

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: Age between 15-45 years; acute appendicitis. Exclusion criteria: addiction; complicated appendicitis (perforation, abscess, gangrene); patient with psychology disorders; diabetes and history of chronic diseases.

Age

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

Gender

Both

Phase

Groups that have been masked*No information***Sample size**Target sample size: **126****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 committees1**Ethics committee****Name of ethics committee**

Kashan University of Medical Sciences

Street address

5th Km of Ghotbe Ravandi Blvd.

City

Kashan

Postal code

8814187159

Approval date

2010-06-19, 1389/03/29

Ethics committee reference number

62/1/8/29/پ

Health conditions studied1**Description of health condition studied**

appendicitis

ICD-10 code

K35

ICD-10 code description

Acute appendicitis

Primary outcomes1**Description**

pain after operation

Timepoint

6, 12 and 24 hours after operation

Method of measurement

Visual Analogue Scale

Secondary outcomes1**Description**

pethedin dosage

Timepoint

24 hour after operation

Method of measurement

number of administered pethedin dosage

Intervention groups1**Description**

Group A: peritoneal infiltration of Bupivacaine 5% (1mg/kg)

Category

Treatment - Drugs

2**Description**

Group B: subcutaneous infiltration of Bupivacaine 5% (1mg/kg)

Category

Treatment - Drugs

3**Description**

Group C: without any injection

Category

N/A

Recruitment centers1**Recruitment center****Name of recruitment center**

Beheshti Hospital

Full name of responsible person

Dr.Mehdi Zanghaneh

Street address

5th Km of Ghotbe Ravandi Blvd.

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Sponsors / Funding sources1**Sponsor****Name of organization / entity**

Kashan University of Medical Sciences

Full name of responsible person

Dr. Gholam Ali Hamidi

Street address

5th Kilometer Ghotbe Ravandi Blvd.

City

Kashan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Kashan 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

Kashan University of Medical Sciences

Full name of responsible person

Dr. Mohammad Reza Fazel

Position

Anesthesiologist

Other areas of specialty/work

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Other areas of specialty/work

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Full name of responsible person

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Position

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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