

Clinical Trial Protocol

Iranian Registry of Clinical Trials

08 Jun 2026

Analgesic effects of intrapleural pethidine after operations with chest tube insertion

Protocol summary

Study aim

Determining the effectiveness of intrapleural pethidine on postoperative pain in patients undergoing chest tubing

Design

A clinical trial study with an intervention group (receiving pethidine intrapleural) and a control group (without drug) which is a randomized controlled study without blinding in 2 groups of 29 people using random blocks.

Settings and conduct

The study was performed on 58 patients in need of surgery with chest tube in Qazvin city hospital in 1400. Patients are divided into two groups receiving pethidine or the control group. The amount of pain based on VAS in the first hours, 6, 12, 18 and 24 hours after surgery in both groups is determined and compared. In this study, blindness was not performed.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Perform surgery with chest tube insertion
Exclusion criteria: pethidine allergy, drug addiction

Intervention groups

Intrapleural pethidine intake : not receiving pethidine

Main outcome variables

The effectiveness of intrapleural pethidine on pain intensity and infection rate in hospitalized patients

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20210825052291N1**
Registration date: **2021-11-23, 1400/09/02**
Registration timing: **prospective**

Last update: **2021-11-23, 1400/09/02**

Update count: **0**

Registration date

2021-11-23, 1400/09/02

Registrant information

Name

Mohammad Darvishvand

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 28 3379 0627

Email address

nafis.rastgoo.20@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-12-22, 1400/10/01

Expected recruitment end date

2022-12-22, 1401/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Analgesic effects of intrapleural pethidine after operations with chest tube insertion

Public title

Analgesic effects of intrapleural pethidine after operations with chest tube insertion

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Perform the operation with a chest tube

Exclusion criteria:

Allergy to pethidine Drug addiction
Age
From **18 years** old to **60 years** old
Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **58**

Randomization (investigator's opinion)
Randomized

Randomization description
Patients are divided into two groups a and b using the balance block randomization method. The size of each block is 4. Balanced randomization method for participants in the clinical trial study is a randomized control, the effect of intrapleural injection of pethidine (group a) and no injection (group b) in reducing pain after chest tubing. Random allocation tool is software.

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Qazvin University of Medical Sciences

Street address

Velayat hospital, 22 Bahman boulevard, Elahieh alley, Minoodar town, Qazvin

City

Qazvin

Province

Qazvin

Postal code

3471976161

Approval date

2020-12-30, 1399/10/10

Ethics committee reference number

IR.QUMS.REC.1399.371

Health conditions studied

1

Description of health condition studied

Chest tube placement

ICD-10 code

R07.8

ICD-10 code description

Other chest pain

Primary outcomes

1

Description

Intensity of pain

Timepoint

The first hours, 6, 12, 18 and 24 hours after surgery

Method of measurement

visual analogue scale

Secondary outcomes

1

Description

infection

Timepoint

The first hours, 6, 12, 18 and 24 hours after surgery

Method of measurement

Physical examination

Intervention groups

1

Description

Intervention group: Intrapleural pethidine injection (injection of pethidine locally into the intrapleural space between the parietal and visceral pleura through a catheter causes regional analgesia of the chest). Each injection of 25 mg for 2 minutes from a pethidine vial is given to the patient locally. The patient's vital signs are constantly monitored during the injection.

Category

Treatment - Drugs

2

Description

Control group: Control group, no injection of pethidine (in this group, pethidine is not used, only local anesthetics are used, which are prescribed in the same amount in the intervention group).

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Vellayat Hospital

Full name of responsible person

Mohammad Darvishvand

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Qazvin University of Medical Sciences

Full name of responsible person

Dr Sepideh Hajian

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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

Qazvin University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Qazvin University of Medical Sciences

Full name of responsible person

Mohammad Darvishvand

Position

Resident

Latest degree

Medical doctor

Other areas of specialty/work

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Fax**Email**

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

Yes - There is a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available

Title and more details about the data/document

All data can be shared after individuals are unidentified.

When the data will become available and for how long

Access starts 6 months after the results are published

To whom data/document is available

The data will be available to researchers working in academic and scientific institutions.

Under which criteria data/document could be used

Any kind of analysis on the delivered data is allowed.

Send a message to the author's email to request access to data or documentation.

From where data/document is obtainable

Refer to the email of Dr. Mohammad Darvishvand

What processes are involved for a request to access data/document

After the publication of the article, the applicant is able to access the information by sending an email to the author and its duration is about one month.

Comments