

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Jul 2026

Evaluation of the effect of preoperative administration of pregabalin in comparison with co-administration of pregabalin and celecoxib on postoperative pain of laparoscopic cholecystectomy under general anesthesia

Protocol summary

Study aim

Determining the effect of preoperative single-dose pregabalin in comparison with celecoxib on pain relief and also reducing the average morphine use and its complications after laparoscopic cholecystectomy under general anesthesia

Design

A controlled, double-blind, randomized clinical trial on 60 patients

Settings and conduct

Place of study performance: Kashani Hospital, Shahrekord city; Study population: acute and chronic cholecystitis patients candidate for laparoscopic cystectomy under general anesthesia; Type of blinding: with coded sealed pockets; Method of blinding: coding was done by one of the colleagues of the study and nurses and patients were blinded to drugs

Participants/Inclusion and exclusion criteria

Inclusion criteria: Ultrasonographic results confirm the presence of gallstones, symptomatic gallstone disease, candidate for elective laparoscopic cholecystectomy, ASA class 1 and 2, age between 20 to 65 years, and consent to participate in the study. Non-inclusion criteria: History of diseases affecting vital signs including heart failure, lung, confirmed malignancy, people older than 65 years, history of drug addiction, need for open cholecystectomy, people with contraindications to anesthesia or opioids

Intervention groups

Intervention Group 1: Administration of only pregabalin; Intervention Group2: Administration of pregabalin with celecoxib; Control group: receiving placebo.

Main outcome variables

Postoperative pain

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20210309050652N1**

Registration date: **2023-07-23, 1402/05/01**

Registration timing: **retrospective**

Last update: **2023-07-23, 1402/05/01**

Update count: **0**

Registration date

2023-07-23, 1402/05/01

Registrant information

Name

Ali Sadeghian

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 38 3225 3752

Email address

dr.sadeghian@outlook.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-11-27, 1400/09/06

Expected recruitment end date

2022-01-26, 1400/11/06

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the effect of preoperative administration of pregabalin in comparison with co-administration of pregabalin and celecoxib on postoperative pain of laparoscopic cholecystectomy under general anesthesia

Public title

The effect of pregabalin on postoperative pain

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Existence of ultrasonographic results confirming the presence of gallstones Symptomatic gallstone disease Candidate for elective surgery for laparoscopic cholecystectomy ASA Class 1 and 2 Age between 20 and 65 years Satisfaction to participate in the study

Exclusion criteria:

Dissatisfaction with participating in the project History of diseases affecting vital signs including heart and lung failure Confirmed malignancy Need an open cholecystectomy People older than 65 years History of Addiction Occurrence of unwanted complications during the operation People with contraindications to anesthesia or opioids (patients with known hypersensitivity to the compounds of various anesthetics) Patients with inability to answer visual pain ruler questions

Age

From **20 years** old to **65 years** old

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Care provider
- Outcome assessor
- Data analyser

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Randomized

Randomization description

Patients will be allocated to three groups: A(control), B (only pregabalin) and C (combination of pregabalin and celecoxib), by block randomization with block size of 6. In each block, 2 patients of each group will be exist. The order of blocks will be determined randomly in A or B or C groups and subjects will be allocated sequentially in order of admission. The random allocation rule method was used for the determination of sequences using non-transparent envelopes sealed with random sequences (Sequentially numbered, sealed, opaque envelopes). They are placed in order. In order to maintain the random sequence, numbering is done on the outer surface of the envelopes in the same way. Finally, the lids of the letter envelopes are glued and placed inside a box, respectively. At the beginning of the registration of participants, based on the order of entry of eligible

participants in the study, one of the envelopes of the letter will be opened in order and the assigned group of the participant will be revealed.

Blinding (investigator's opinion)

Double blinded

Blinding description

Patients receive drugs (interventions or control groups) in closed pockets which are coded and patients are not aware of their contents. Coding will be done by one of the colleagues of the study and the evaluator nurse will be blind for the type of drugs.

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Research Ethics Committee of Shahrekord University of Medical Sciences

Street address

Shahrekord University of Medical Sciences; Rahbar Boulevard

City

Shahrekord

Province

Chahar-Mahal-va-Bakhtiari

Postal code

8818634141

Approval date

2021-10-26, 1400/08/04

Ethics committee reference number

IR.SKUMS.REC.1400.179

Health conditions studied

1

Description of health condition studied

Acute Postoperative Pain

ICD-10 code

K81.0

ICD-10 code description

Acute cholecystitis

Primary outcomes

1

Description

Patients' pain score based on visual and descriptive numerical pain questionnaire

Timepoint

Measurement of patients' pain, immediately after waking up in recovery, two and four hours after surgery

Method of measurement
Visual Analog Scale questionnaire

Secondary outcomes

1

Description

The need for Narcotic Analgesics after surgery

Timepoint

Immediately after waking up in recovery, two to four hours after surgery

Method of measurement

Mg Morphin

2

Description

Hemodynamic symptoms

Timepoint

Immediately after waking up in recovery, two to four hours after surgery

Method of measurement

By measuring heart rate, pulse oximetry, respiratory rate, using blood pressure device

Intervention groups

1

Description

Intervention group: Patients receiving pregabalin (capsule, 150 mg, product by Sobhan company, one time, oral, as single dose 2 hours before starting surgery) with celecoxib (capsule, 200 mg, product by Amin company, one time, oral, as single dose 2 hours before starting surgery)

Category

Prevention

2

Description

Intervention group: Patients receiving only pregabalin (capsule, 150 mg, product by Sobhan company, one time, oral, as single dose 2 hours before starting surgery)

Category

Prevention

3

Description

Control group: They receive placebo

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Kashani Hospital, Shahrekord

Full name of responsible person

Ali Sadeghian

Street address

Rahbar Bolvar, Shahrekord

City

Shahrekord

Province

Chahar-Mahal-va-Bakhtiari

Postal code

8818634141

Phone

+98 38 3232 4401

Email

dr.sadeghian@outlook.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shahre-kord University of Medical Sciences

Full name of responsible person

Esfandiyar Heydarian

Street address

Rahbar Bolvar, Shahrekord

City

Shahrekord

Province

Chahar-Mahal-va-Bakhtiari

Postal code

8818634141

Phone

+98 38 3232 4401

Email

dr.sadeghian@outlook.com

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Shahre-kord 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

Shahre-kord University of Medical Sciences

Full name of responsible person

Hossein Madineh

Position

Associated Professor

Latest degree

Specialist

Other areas of specialty/work

Anesthesiology

Street address

Shahre-kord University of Medical Sciences; Rahbar
Boulevard

City

Shahrekord

Province

Chahar-Mahal-va-Bakhtiari

Postal code

8818634141

Phone

+98 38 3232 4401

Email

madineh@skums.ac.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity

Shahre-kord University of Medical Sciences

Full name of responsible person

Hossein Madineh

Position

Associated Professor

Latest degree

Specialist

Other areas of specialty/work

Anesthesiology

Street address

Shahre-kord University of Medical Sciences; Rahbar
Boulevard

City

Shahrekord

Province

Chahar-Mahal-va-Bakhtiari

Postal code

8818634141

Phone

+98 38 3232 4401

Email

madineh@skums.ac.ir

Person responsible for updating data

Contact

Name of organization / entity

Shahre-kord University of Medical Sciences

Full name of responsible person

Ali Sadeghian

Position

Anesthesiologist Physician Resident

Latest degree

Medical doctor

Other areas of specialty/work

Anesthesiology

Street address

Kashani Hospital, Kashani Blvd, Parastar Ave

City

Shahrekord

Province

Chahar-Mahal-va-Bakhtiari

Postal code

8818634141

Phone

+98 38 3225 3752

Fax**Email**

a.sadeghian@skums.ac.ir

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

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

The individual data of the study participants are considered and all the data can potentially be shared after the individuals are not identified.

When the data will become available and for how long

October 2022

To whom data/document is available

Notification is allowed

Under which criteria data/document could be used

Notification is allowed

From where data/document is obtainable

Notification is allowed

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

It does not have a specific process

Comments

does not have