Clinical Trial Protocol
Iranian Registry of Clinical Trials

27 Jun 2026

Effect of single dose intravenous dexamethasone on post-operative pain in patients undergoing laparoscopic cholecystectomy in Razi hospital during 2012

Protocol summary

Summary

This double blind randomized clinical trial will be carried out on 122 patients who are admitted in Razi hospital and are candidates of laparoscopic cholecystectomy in order to assess the effect of single dose intravenous dexamethasone on post-operative pain in this kind of surgery. Inclusion criteria consist of patients aged between 18 to 60 years old, while the exclusion criteria are renal failure, hepatic failure, history of gastric/duodenal ulcers, sensitivity to glucocorticoid(s), and those under treatment with glucocorticoids and/or immunosuppressive agents. The sample will be divided into two groups of 61 patients. Each patient in the case group will receive 8 mg single dose intravenous dexamethasone during induction of anesthesia while patients of control group will receive normal saline as placebo at the same time. The severity of post-operative pain will be assessed in both groups in recovery, and 2, 6, 12 and 24 hours post-operatively, and will be compared to each other statistically.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2012072810424N1**
Registration date: **2013-02-27, 1391/12/09**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2013-02-27, 1391/12/09

Registrant information

Name

Babak Masoudrad

Name of organization / entity

Jondishapour University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Jondishapour University of Medical Sciences

Expected recruitment start date

2012-05-21, 1391/03/01

Expected recruitment end date

2012-08-21, 1391/05/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of single dose intravenous dexamethasone on post-operative pain in patients undergoing laparoscopic cholecystectomy in Razi hospital during 2012

Public title

Effect of dexamethasone on post-operative pain in laparoscopic cholecystectomy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Candidates of laparoscopic cholecystectomy that are 18 to 60 years old. Exclusion criteria: Patients younger than 18 or elder than 60 years

old; Renal failure; Hepatic failure; History of gastric/duodenal ulcers; Sensitivity to glucocorticoid(s); Those under treatment with glucocorticoids and/or immunosuppressive agents.

Age
From **18 years** old to **60 years** old

Gender
Both

Phase
3

Groups that have been masked
No information

Sample size
Target sample size: **122**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids

1

Registry name
N/A

Secondary trial Id
N/A

Registration date
empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethics committee of Jondishapour University of Medical Sciences

Street address
Golestan Boulevard

City
Ahvaz

Postal code

Approval date
2012-05-19, 1391/02/30

Ethics committee reference number
eth-468

Health conditions studied

1

Description of health condition studied
cholecystitis

ICD-10 code
K81.9

ICD-10 code description
Cholecystitis, unspecified

Primary outcomes

1

Description
Post-operative pain

Timepoint
In recovery, 2 hours post-op, 6 hours post-op, 12 hours post-op, 24 hours post-op

Method of measurement
Visual Analogue Scale (VAS)

Secondary outcomes

1

Description
N/A

Timepoint
N/A

Method of measurement
N/A

Intervention groups

1

Description
Case group: Intravenous administration of 8 mg single dose dexamethasone during induction of anesthesia.

Category
Treatment - Drugs

2

Description
Control group: Intravenous administration of 2 ml of normal saline during induction of anesthesia

Category
Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center
Razi Hospital

Full name of responsible person
Babak Masoudrad

Street address
Razi Hospital, Palestine Boulevard

City
Ahvaz

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice chancellor for research, Jondishapour University of Medical Sciences
Full name of responsible person
Dr. Mostafa Feqhi
Street address
Vice chancellor for research, Jondishapour University of Medical Sciences
City
Ahvaz
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Vice chancellor for research, Jondishapour 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

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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