

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 Jul 2026

A clinical trial to compare the effectiveness of diclofenac in pain relief after inguinal hernia surgery with a non-treated group

Protocol summary

Study aim

To compare the effectiveness of diclofenac in pain relief after inguinal hernia surgery with a non-treated group.

Design

Sixty patients who were candidates for inguinal hernia surgery at the Department of Urology in Ghaem Hospital, Mashhad, Iran, were selected randomly using closed envelopes and assigned to control and intervention groups. A code is allocated to each of the participants.

Settings and conduct

Patients candidate for inguinal hernia surgery at the Department of Urology, Ghaem Hospital, Mashhad, Iran, were chosen. In this double-blind study, the participants and the researcher responsible for data collection were unaware of the type of drug.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Not receiving any analgesics before surgery; not having allergy to diclofenac. Exclusion criteria: Surgery duration of more than one hour; history of hepatic and renal diseases; addiction or alcoholism or continuous use of any type of drug; gastrointestinal disorders; the use of analgesic drugs 24 hours before surgery.

Intervention groups

The intervention group receives diclofenac sustained-released 100 mg tablets with breakfast before surgery. The control group does not receive any analgesic drugs before surgery.

Main outcome variables

Evaluation and comparison of pain level based on visual analogue scale for pain at 1, 6 and 24 hours after surgery and the number of requests for morphine during the first 24 hours after surgery in the intervention and control groups.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180708040378N1**

Registration date: **2018-07-28, 1397/05/06**

Registration timing: **prospective**

Last update: **2018-07-28, 1397/05/06**

Update count: **0**

Registration date

2018-07-28, 1397/05/06

Registrant information

Name

Behnoush Bahadoripour

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 51 3840 0000

Email address

bahadoripb901@mums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-09-06, 1397/06/15

Expected recruitment end date

2019-09-06, 1398/06/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A clinical trial to compare the effectiveness of diclofenac in pain relief after inguinal hernia surgery with a non-treated group

Public title

The effect of diclofenac on pain relief after inguinal hernia surgery.

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Not receiving any analgesics before surgery not having allergy to diclofenac

Exclusion criteria:

Surgery duration of more than one hour history of hepatic and renal diseases addiction or alcoholism or continuous use of any type of drug gastrointestinal disorders the use of analgesic drugs 24 hours before surgery

Age

No age limit

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Outcome assessor

Sample size

Target sample size: 60

Randomization (investigator's opinion)

Randomized

Randomization description

Sixty patients who were candidates for inguinal hernia surgery at the Department of Urology in Ghaem Hospital, Mashhad, Iran, were selected randomly using closed envelopes and assigned to control and intervention groups. A code is allocated to each of the participants.

Blinding (investigator's opinion)

Double blinded

Blinding description

Patients candidate for inguinal hernia surgery at the Department of Urology, Ghaem Hospital, Mashhad, Iran, were chosen. In this double-blind study, the participants and the researcher responsible for data collection were unaware of the type of drug.

Placebo

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees

1

Ethics committee**Name of ethics committee**

Ethics Committee of Mashhad University of Medical Sciences

Street address

Vice Chancellor for Research, Mashhad University of Medical Sciences, Ghoreishi building, Daneshgah Street

City

Mashhad

Province

Razavi Khorasan

Postal code

9195965919

Approval date

2016-12-07, 1395/09/17

Ethics committee reference number

IR.MUMS.fm.REC.1395.297

Health conditions studied

1

Description of health condition studied

Inguinal hernia

ICD-10 code

K40

ICD-10 code description

Inguinal hernia

Primary outcomes

1

Description

Pain level

Timepoint

1, 6 and 24 hours after surgery

Method of measurement

Visual analogue scale

Secondary outcomes

1

Description

The number of requests for morphine

Timepoint

The first 24 hours after surgery

Method of measurement

Questionnaire

Intervention groups

1

Description

Intervention group: This group receives diclofenac sustained-released 100 mg tablets with breakfast before surgery, the pain level will be measured based on visual analogue scale for pain at 1, 6 and 24 hours after surgery and the number of requests for morphine during the first 24 hours after surgery.

Category

Treatment - Drugs

2

Description

Control group: This group does not receive any analgesic drugs before surgery. Pain level will be measured based on visual analogue scale for pain at 1, 6 and 24 hours after surgery and the number of requests for morphine during the first 24 hours after surgery.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Ghaem Hospital

Full name of responsible person

Behnoush Bahadoripour

Street address

Ghaem Hospital, Ahmadabad Street, Dr. Ali Shariati Square

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bahadoripb901@mums.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Mohsen Tafaghodi

Street address

Vice Chancellor for Research, Mashhad University of Medical Sciences, Ghoreishi building, Daneshgah Street

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Email

vcresearch@mums.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Mashhad 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

Mashhad University of Medical Sciences

Full name of responsible person

Behnoush Bahadoripour

Position

Resident

Latest degree

Medical doctor

Other areas of specialty/work

Urology

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Person responsible for scientific inquiries

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is 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

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

The total data to be included are the primary and secondary effects to be shared.

When the data will become available and for how long

6 months after printing results

To whom data/document is available

Our data will only be available to researchers working in science center and university.

Under which criteria data/document could be used

Our data will be available for scholars working in science center and university.

From where data/document is obtainable

Behnoush Bahadoripour provides the analysis code to the applicants via email: bahadoripb901@mums.ac.ir

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

Data collection was done for 10 months, data were collected one month, statistical analysis of one month, information dissemination as a article six months.

Comments