

Clinical Trial Protocol

Iranian Registry of Clinical Trials

30 Jun 2026

Effect of epidural morphine in controlling post-operative pain after microdiscectomy

Protocol summary

Summary

The aim of this study was to check the efficacy of this method for analgesia in a postoperative lumbar microdiscectomy. In this randomized clinical trial, a total of 100 patients with low back radicular pain who underwent microdiscectomy were included into two equal groups. The patients in the intervention group received direct morphine (2mg/5mL) spillage while in the control group received normal saline (5mL) spillage as a placebo. The main outcome measured were pain intensity in recovery room and the ward, amount of analgesics used, postoperative ambulation time, post-operative hospitalization stay.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201101161772N5**

Registration date: **2011-04-11, 1390/01/22**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-04-11, 1390/01/22

Registrant information

Name

Dawood Aghamohammadi

Name of organization / entity

Tabriz University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Tabriz University of Medical Sciences

Expected recruitment start date

2009-08-23, 1388/06/01

Expected recruitment end date

2010-08-23, 1389/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of epidural morphine in controlling post-operative pain after microdiscectomy

Public title

Epidural Morphine for post operative pain control

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: ASA I-II, age 25-65 years old,

Microdiscectomy in one level Exclusion criteria:

Addiction, Psychosis, depression, history of chronic pain

Age

From **25 years** old to **65 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **100**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Tabriz University of Medical Sciences

Street address

Vice chancellor for research, Faculty of Medicine,
Daneshgah Street

City

Tabriz

Postal code

Approval date

2010-09-23, 1389/07/01

Ethics committee reference number

5/4/9283

Health conditions studied

1

Description of health condition studied

lumbar discopathy

ICD-10 code

M51.1+

ICD-10 code description

Lumbar and other intervertebral disc disorders with
radiculopathy

Primary outcomes

1

Description

pain

Timepoint

6, 12, 18, and 24 hours after operation

Method of measurement

without pain- mild pain- moderate pain- severe pain

Secondary outcomes

1

Description

Rate of morphine consumption

Timepoint

24 hours after the operation

Method of measurement

milligrams

2

Description

hospital stay

Timepoint

During hospital stay

Method of measurement

In days

3

Description

ambulation time

Timepoint

During hospital stay

Method of measurement

number of days from operation until ambulation

Intervention groups

1

Description

Sprinkling 5 ml (2 mg) morphine to the epidural space
before closing surgery site

Category

Treatment - Drugs

2

Description

Sprinkling 5 ml saline to the epidural space before
closing surgery site

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Educational Center of Shohada Hospital

Full name of responsible person

Street address

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

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Research Group of Anesthesiology Department,
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Tabriz

Grant name**Grant code / Reference number****Is the source of funding the same sponsor
organization/entity?**

Yes

Title of funding source

Tabriz 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**

Dawood Aghamohammadi

Full name of responsible person

Dawood Aghamohammadi

Position

Assistant Professor

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Web page address**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