

# 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

###### Country

Iran (Islamic Republic of)

###### Phone

+98 41 1381 8940

###### Email address

aghamohammadid@tbzmed.ac.ir

##### 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

Dawood Aghamohammadi

##### Street address

Research Group of Anesthesiology Department,  
Faculty of Medicine, Tabriz University of Medical  
Sciences, Daneshgah Street, Tabriz

**City**

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

**Other areas of specialty/work****Street address**

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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*