

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### The effect of infusion of intravenous Acetaminophen at the end of surgery on post operative recovery room pain and discharge time in Lumbar Discectomies.

#### Protocol summary

##### Summary

In a randomized double blinded controlled trial, 52 patients scheduled for lumbar discectomy were randomly allocated into two groups received intravenous paracetamol within the last 20 minutes of the surgery as the case group or normal saline as the control group. After that different variants such as VAS, PS, blood pressure, heart rate, nausea, vomiting and recovery discharge time will be recorded. If the infusion of intravenous acetaminophen decreases the pain after lumbar discectomies we can use it instead of opioids.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2013102912853N4**  
Registration date: **2014-03-03, 1392/12/12**  
Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2014-03-03, 1392/12/12

##### Registrant information

##### Name

Mohammad Shimia

##### Name of organization / entity

Tabriz University of Medical Sciences and Health services

##### Country

Iran (Islamic Republic of)

##### Phone

+98 41 1336 7774

##### Email address

shimia@tbzmed.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Student Research Committee of Tabriz University of Medical Science

##### Expected recruitment start date

2013-11-22, 1392/09/01

##### Expected recruitment end date

2014-05-22, 1393/03/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

The effect of infusion of intravenous Acetaminophen at the end of surgery on post operative recovery room pain and discharge time in Lumbar Discectomies.

##### Public title

The effect of infusion of intravenous acetaminophen on pain in lumbar discectomies.

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: patients that have disc involvement at the same levels and do not have exclusion criteria.  
Exclusion criteria: patients that have drug addiction, liver disease, cardiopulmonary disease, psychological disease, severe obesity, age under 20 years and upper 65 years.

##### Age

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

##### Gender

Both

##### Phase

N/A

## Groups that have been masked

No information

## Sample size

Target sample size: 52

## 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 Science Ethics Committee

##### Street address

Tabriz . Daneshgah st . Tabriz University of Medical Science.

##### City

Tabriz

##### Postal code

#### Approval date

2013-07-07, 1392/04/16

#### Ethics committee reference number

5/4/3196

## Health conditions studied

### 1

#### Description of health condition studied

pain in lumbar discetomy

#### ICD-10 code

M51

#### ICD-10 code description

Other intervertebral disc disorders

## Primary outcomes

### 1

#### Description

pain

#### Timepoint

minute:5.10.15.20.25.30.35.40.discharge time

#### Method of measurement

Visual ghraphycal scale

## Secondary outcomes

### 1

#### Description

swelling

#### Timepoint

minute:5.10.15.20.25.30.35.40.discharge time

#### Method of measurement

inspection

### 2

#### Description

heart rate

#### Timepoint

minute:5.10.15.20.25.30.35.40.discharge time

#### Method of measurement

by cardiac monitoring

### 3

#### Description

blood pressure

#### Timepoint

minute:5.10.15.20.25.30.35.40.discharge time

#### Method of measurement

mmHg. blood pressure monitor

### 4

#### Description

nausea

#### Timepoint

minute:5.10.15.20.25.30.35.40.discharge time

#### Method of measurement

asking

### 5

#### Description

vomiting

#### Timepoint

minute:5.10.15.20.25.30.35.40.discharge time

#### Method of measurement

inspection

### 6

#### Description

Recovery Discharge Time

#### Timepoint

time to discharge to ward

#### Method of measurement

time recording

## Intervention groups

### 1

#### Description

in case group:15 mg/kg intravenous acetaminophen in 100 cc salin normal/iv. within 20 min at the end of

surgery.

**Category**

Treatment - Drugs

**2**

**Description**

in control group:100cc serum salin normal/iv/within 20 min at the end of surgery.

**Category**

Placebo

**Recruitment centers**

**1**

**Recruitment center**

**Name of recruitment center**

Tabriz Shohada Hospital

**Full name of responsible person**

Dr Mohammad Shimia

**Street address**

Tabriz.Shahgoli Street.

**City**

Tabriz

**Sponsors / Funding sources**

**1**

**Sponsor**

**Name of organization / entity**

Student Research Comitte Of Tabriz University Of Medical science

**Full name of responsible person**

Hanieh Azizi

**Street address**

Tabriz, Daneshgah Street, in front of Shahid Madani Hospital

**City**

Tabriz

**Grant name**

**Grant code / Reference number**

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

Yes

**Title of funding source**

Student Research Comitte Of Tabriz University Of Medical science

**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**

Tabriz University Of Medical Science

**Full name of responsible person**

Mahdokht Ghanbari

**Position**

Medical Student(Intern)

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Daneshyar

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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*