Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 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 doble blinded controlled trial,52 patients scheduled for lumbar discectomy were randomly allcated into two groups recieved 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 VGS.PS.blood pressure.heart rate.nausea. vomiting and recovery discharge time will be recorded. If the infusion of intravenous acetaminophen decrease the pain after lumbar discectomies we can use it inspite 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 involvment at the same levels and do not have exclusion criterias.
Exclusion criteria:patients that have drug addiction.liver disease.cardiopulmonary disease.psychological disease.sever 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)

Other areas of specialty/work

Street address

Tabriz, Daneshgah Street, Tabriz University Of Medical Science

City

Tabriz

Postal code

Phone

+98 41 1334 4802

Fax

Email

drsorkhabi@yahoo.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Tabriz University Of Medical Science

Full name of responsible person

Dr Mohammad Shimia

Position

Daneshyar

Other areas of specialty/work

Street address

Tabriz, Daneshgah Street, Tabriz University Of Medical Science

City

Tabriz

Postal code

Phone

+98 41 1334 4802

Fax

Email

shimia@tbzmed.ac.ir

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Tabriz University Of Medical Science

Full name of responsible person

Mahdokht Ghanbari

Position

Medical Student(Intern)

Other areas of specialty/work

Street address

Tabriz, Daneshgah Street, Tabriz University Of Medical Science

City

Tabriz

Postal code

Phone

+98 41 1334 4802

Fax

Email

drsorkhabi@yahoo.com

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