Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 2026

The effect of Intrathecal Adenosine in the control of neuropathic pain after lumbar discectomy in one level

Protocol summary

Summary

Aim: Is to evaluate the effectiveness of Intrathecal adenosine in controlling post operative neuropathic pain in one-level lumbar discectomy. Method: A number of 40 patients were admitted to the study after obtaining written consent at Imam Reza Hospital and were studied for a year. Inclusion criteria: all patients aged 20-60 referred from the neurosurgery clinic with radicular pain following a discectomy in one level. Exclusion criteria: Asthma; liver impairment; renal impairment; endocrine disorders; coronary diseases; allergy to Methyl Xanthenes; addiction and psychogenic disorders. At first the scale of Patients pain were recorded using the VAS and subsequently the amount of analgesic dose was noted then patients were admitted to the outpatient ward and hospitalized. After obtaining a solid IV access and making sure the patient is well hydrated using normal saline, in a sitting position with a gauge 25 Quinke needle is inserted into the L4-L5 space and after observing the CSF an amount of 1000 micrograms of Adenosine without any other excipients was injected into the Intrathecal space. During of the procedure and recovery, routine monitoring was conducted. After making sure there were no sensory, motor, urinary and autonomic dysfunction, a second set of questionnaire was handed out to the patients regarding their pain scale and analgesic consumption in the first , 6th,12th hour ; first, second and third day; first, second and third week. First, second and third month and soon were obtained and recorded using telephone. At last all data, before and after intervention were compared.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201608171772N20**
Registration date: **2016-08-28, 1395/06/07**
Registration timing: **retrospective**
Last update:
Update count: **0**

Registration date

2016-08-28, 1395/06/07

Registrant information

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Dawood Aghamohammadi
Name of organization / entity
Tabriz University of Medical Sciences
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Recruitment status

Recruitment complete

Funding source

Unite 2 Vice Chancellor for Research, Faculty of Medicine,Tabriz University of Medical Sciences

Expected recruitment start date

2015-11-10, 1394/08/19

Expected recruitment end date

2016-08-05, 1395/05/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of Intrathecal Adenosine in the control of neuropathic pain after lumbar discectomy in one level

Public title

Intrathecal Adenosine effect for controlling post discectomy neuropathic pain

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria; Patients aged 20-60 referred from the neurosurgery clinic with radicular pain following a discectomy in one level. Exclusion criteria: asthma; liver impairment; renal impairment; endocrine disorders; coronary diseases; allergy to Methyl Xanthenes; addiction and psychogenic disorders

Age

From **20 years** old to **60 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **40**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Tabriz University of Medical Sciences University of Medical Sciences

Street address

Daneshghah street . Fuculty of medicine ,Vice Chancellor for Research-Tabriz University of Medical Sciencest- Daneshghah Street Tabriz East Azarbaijan

City

Tabriz

Postal code

Approval date

2015-11-09, 1394/08/18

Ethics committee reference number

TBZMED.REC.1394,781

Health conditions studied

1

Description of health condition studied

Postlaminectomy syndrome, not elsewhere classified

ICD-10 code

M96.1

ICD-10 code description

Postlaminectomy syndrome, not elsewhere classified

Primary outcomes

1

Description

Pain

Timepoint

first , 6th,12th hour ; first,second and third day; first, second and third week. First, second and third month

Method of measurement

visual analog scale

Secondary outcomes

1

Description

Amount of analgesic consumption

Timepoint

first , 6th,12th hour ; first,second and third day; first, second and third week. First, second and third month

Method of measurement

dose

Intervention groups

1

Description

Intrathecal administration of 1000 microgram

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Reza Hospital/Tabriz

Full name of responsible person

Dawood Aghamohammadi

Street address

Imam Reza Hospital, Tabriz University of Medical Sciencest, Daneshghah street, Tabriz

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for Research, Faculty of Medicine,Tabriz University of Medical Sciences

Full name of responsible person

Hassan Soleimanpour

Street address

Unite 2 ,Vice Chancellor for Research,Tabriz University of Medical Sciencest, Daneshghah 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

Vice Chancellor for Research, Faculty of Medicine,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

Anesthesiology Dept, Faculty of Medicine, Tabriz University of Medical Science

Full name of responsible person

Dawood Aghamohammadi

Position

Associate Professor

Other areas of specialty/work

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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