

Clinical Trial Protocol

Iranian Registry of Clinical Trials

29 Jun 2026

Short term clinical outcome of percutaneous vertebroplasty

Protocol summary

Summary

Percutaneous vertebroplasty under imaging guide will be conducted during a 15 months period in Emam Reza Hospital of Tabriz for about 30 patients with osteoporotic compression fracture, painful hemangioma, metastasis and multiple myeloma of vertebral bodies. Before and after procedure pain and functional disability of patients will be measured by Visual Analogue Scale and Oswestry low back pain Questionnaire. Any complication such as leakage of cement and canal stenosis will be recorded.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138902033778N1**

Registration date: **2010-05-20, 1389/02/30**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2010-05-20, 1389/02/30

Registrant information

Name

Masoud Nemati

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

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+98 41 1333 4986

Email address

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Recruitment status

Recruitment complete

Funding source

Research department of Tabriz University of Medical

Sciences

Expected recruitment start date

2010-05-22, 1389/03/01

Expected recruitment end date

2011-08-22, 1390/05/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Short term clinical outcome of percutaneous vertebroplasty

Public title

short term clinical outcome of percutaneous vertebroplasty

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion criteria: -age over 50 years -osteoporotic compression fracture of vertebrae -painful vertebral hemangioma -painful vertebral metastasis -painful vertebral involvement by multiple myeloma exclusion criteria: -new vertebral fractures(less than 2 weeks) -old vertebral fractures(more than one year) -sever compression of vertebral body(reduction of more than 80% percent of height of the vertebra) -myelopathy - focal neurologic defects -bleeding disorders

Age

From **50 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **30**

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

local ethic committee

Street address

tabriz university of medical sciences

City

Tabriz

Postal code

Approval date

2010-02-23, 1388/12/04

Ethics committee reference number

5/4/9300

Health conditions studied

1

Description of health condition studied

Metastasis to vertebrae with or without compression

ICD-10 code

C79.5

ICD-10 code description

metastasis to vertebrae

2

Description of health condition studied

Osteoporosis with compression fracture

ICD-10 code

M80

ICD-10 code description

osteoporosis with compression fracture

3

Description of health condition studied

Multiple Myeloma of vertebrae with or without compression

ICD-10 code

M82.0

ICD-10 code description

Multiple Myeloma of vertebrae

4

Description of health condition studied

Hemangioma of vertebrae with or without compression

ICD-10 code

D18.0

ICD-10 code description

hemangioma of vertebrae

Primary outcomes

1

Description

Pain

Timepoint

one month after cement injection

Method of measurement

Visual Analogue Scale

Secondary outcomes

1

Description

Functional disability after vertebroplasty

Timepoint

immediately , one week and one month after injection of cement

Method of measurement

Oswestry Low Back Pain Questionare

Intervention groups

1

Description

cement injection in vertebral body under guidance of CT scan

Category

Rehabilitation

Recruitment centers

1

Recruitment center

Name of recruitment center

Emam Reza Hospital

Full name of responsible person

Dr. Shahrzad Zarayan

Street address

golgasht street

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Research department of Tabriz university of medical sciences

Full name of responsible person

Dr. Ostad Rahimi

Street address

Education Building- Tabriz university

City

Tabriz

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

Yes

Title of funding source

Research department of 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**

Tabriz University of Medical Sciences

Full name of responsible person

Dr Shahrzad Zarayan

Position

resident of radiology

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

Emam Reza Hospital- department of radiology

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Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

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Dr Masoud Nemat

Position

Radiologist

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Resident of Radiology

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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