Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

Effectiveness of intravenous Dexamethasone versus Propofol for pain relief in the Migraine headache in the Emergency Department in Imam Reza Hospital, Tabriz University of Medical Science.

Protocol summary

Summary

A prospective double blind randomized clinical trial was performed in Imam Reza teaching hospital in Tabriz-Iran. Ninety patients presenting to ED with Migraine headache were enrolled in two equal groups (I,II). In group I, we used intravenous propofol (10-20 mg every 3 -5 minutes) slowly and in group II, we used dexamethasone (approximately 0.15 mg/kg) slowly. Our inclusion criteria were as follows: A. At least five attacks fulfilling the criteria in B, C, D, and E. B. Attack lasts 4 to 72 hours with or without treatment. C. Headache has at least two of the following characteristics: 1. Unilateral location 2. Pulsating quality 3. Moderate to severe intensity 4. Aggravated by walking up stairs or similar routine physical activity D. During headache, at least one of the following: 1. Nausea or vomiting (or both) 2. Photophobia and phonophobia E. History, physical. and neurologic examination and, if appropriate, diagnostic tests to exclude related organic disease. Our exclusion criteria were as follows: 1-Patients who received narcotic, triptans or other vasoconstrictors like intravenous dihydroergotamine 2- Allergy to eggs or soya Pain explained by patients, based on VAS (Visual Analogue Scale) was recorded at the time of entrance to Emergency medicine Department, and in 5, 10, 20,30 and 45 minutes after injection.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201008122496N4**
Registration date: **2010-10-15, 1389/07/23**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2010-10-15, 1389/07/23

Registrant information

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Hassan Soleimanpour

Name of organization / entity

Tabriz University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Research Vice chancellor of Tabriz University of Medical Sciences

Expected recruitment start date

2009-07-23, 1388/05/01

Expected recruitment end date

2010-07-23, 1389/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effectiveness of intravenous Dexamethasone versus Propofol for pain relief in the Migraine headache in the Emergency Department in Imam Reza Hospital, Tabriz University of Medical Science.

Public title

Effectiveness of intravenous Dexamethasone versus

Propofol for pain relief in Migraine headache in the Emergency Department in Imam Reza Hospital, Tabriz University of Medical Science.

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria: A. At least five attacks fulfilling the criteria in B, C, D, and E. B. Attack lasts 4 to 72 hours with or without treatment. C. Headache has at least two of the following characteristics: 1. Unilateral location 2. Pulsating quality 3. Moderate to severe intensity 4. Aggravated by walking up stairs or similar routine physical activity D. During headache, at least one of the following: 1. Nausea or vomiting (or both) 2. Photophobia and phonophobia E. History, physical. and neurologic examination and, if appropriate, diagnostic tests to exclude related organic disease. Exclusion criteria: 1- Patients who received narcotic, triptans or other vasoconstrictors like intravenous dihydroergotamine 2- Allergy to eggs or soya

Age
No age limit

Gender
Both

Phase
1-2

Groups that have been masked
No information

Sample size
Target sample size: **90**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Research Vice chancellor of Tabriz University of Medical Sciences

Street address
Research Vice chancellor of Tabriz University of Medical Sciences ,Tabriz University of Medical Sciences, Daneshgah Street, Tabriz-51664, I.R IRAN

City
Tabriz

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51664

Approval date
2009-06-04, 1388/03/14

Ethics committee reference number
888

Health conditions studied

1

Description of health condition studied
Migraine headache

ICD-10 code
G43.0

ICD-10 code description
common migraine

Primary outcomes

1

Description
Pain

Timepoint
at 5, 10,20,30 and 45th minutes following intervention

Method of measurement
Visual Analogue Scale

Secondary outcomes

empty

Intervention groups

1

Description
Intravenous Propofol 10-20 mg every 3 -5 minutes

Category
Treatment - Drugs

2

Description
Intravenous Dexamethasone approximately 0.15 mg/kg slowly

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Imam reza hospital

Full name of responsible person
Dr.Hassan Soleimanpour

Street address
Emergency Medicine Department, Tabriz University of Medical Sciences, Daneshgah Street, Tabriz-51664, I.R IRAN.

City

Tabriz

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Research Vice chancellor of Tabriz University of Medical Sciences
Full name of responsible person
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Research Vice chancellor of Tabriz University of Medical Sciences ,Tabriz University of Medical Sciences, Daneshgah Street, Tabriz-51664, I.R IRAN.
City
Tabriz
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Research Vice chancellor 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
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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