

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Comparison effect of oral & intramuscular injection of methocarbamol and placebo on muscle strain

Protocol summary

Summary

The aim of this study was to explore the effect of oral & intramuscular injection of methocarbamol in comparison to placebo on muscle strain. This study was a clinical trial that was performed between June 2008 to March 2010. The 120 patients with diagnosis of muscle strain with duration of less than 2 weeks were classified by random allocation (3 blocks) into 3 groups with equal numbers. The demographic information and pain intensity (measured by visual analogue scale) were evaluated before start of treatment. The first group (33 cases) received oral methocarbamol(2 tab (1000mg), q4h, for 3 days, then 3 tab, q8h, for 4 days) and naproxen (1 tab (500mg), q12 h for 7 days). The second group (38cases) received 1 ampule (1000mg) methocarbamol on buttocks and naproxen (1 tab (500mg), q12 h for 7 days). The third group (35 cases) received placebo (1 tab, q12h) and naproxen (1 tab (500mg), q12 h) for 7 days. The pain intensity and rate of recovery was evaluated after end of treatment. Data were analyzed using SPSS software

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138904014238N1**

Registration date: **2010-10-11, 1389/07/19**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2010-10-11, 1389/07/19

Registrant information

Name

Parviz Yazdanpanah

Name of organization / entity

Yasuj University of Medical Sciences

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Iran (Islamic Republic of)

Phone

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pyazdanpanah@yums.ac.ir

Recruitment status

Recruitment complete

Funding source

Yasuj University of Medical Science

Expected recruitment start date

2008-01-03, 1386/10/13

Expected recruitment end date

2009-12-31, 1388/10/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison effect of oral & intramuscular injection of methocarbamol and placebo on muscle strain

Public title

Effect of oral & intramuscular injection of methocarbamol and placebo on muscle strain

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion: Onset of pain (acute pain, <2week), No history of trauma Exclusion: Radiculopathy, Fracture, Infection, Ligament sprain, Malignancy, Diabetes Mellitus, Thyroid disease, Underlying disease, Rheumatic disease, Myopathy, Motor Neuron disease, Neuropathy

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: **105**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Single blinded

Blinding description**Placebo**

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Yasuj University of Medical Sciences

Street address

Montazeri street

City

Yasuj

Postal code

75919-94799

Approval date

2007-11-20, 1386/08/29

Ethics committee reference number

9/29/8/86

Health conditions studied**1****Description of health condition studied**

Muscle strain

ICD-10 code

M60-M79

ICD-10 code description

M62.6

Primary outcomes**1****Description**

Pain

Timepoint

In start of treatment and 7-10 days later

Method of measurement

Visual analogue scale

Secondary outcomes

empty

Intervention groups**1****Description**

Conventional treatment (Naproxen, 500 mg, q12h, for 7 days) + Placebo(1 tablet, q12h, for 7 days)

Category

Placebo

2**Description**

Methocarbamol, Intramuscular, 1 Ampule, 1000 milligram intramuscular in two buttocks + Conventional treatment Naproxen (1 tablet, 500mg, q12h, for 7days)

Category

Treatment - Drugs

3**Description**

Oral Methocarbamol 2 tablet (1000 Milligram, q4h) for 3 days, then 2 tablet (q8h) for 4th days + Conventional treatment Naproxen (1 tablet, 500mg, q12h, for 7days)

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

S. Mofateh clinic

Full name of responsible person

Dr Parviz Yazdanpanah

Street address

S. Montazeri street, S. Mofateh clinic

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Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

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Full name of responsible person

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Grant name

بودجه معاونت پژوهشی 10506

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

Yes

Title of funding source

Yasuj 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**

Yasuj medical College

Full name of responsible person

Ruhallah Hossini

Position

General Physician

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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