

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Comparison of subacromial Ketorolac, betamethazone LA and triamcinolon injection in treatment of impingement syndrome

Protocol summary

Summary

Objectives:The aim of this study was to evaluate subacromial injection of ketorolac and compared it with steroids in patients with impingement syndrome shoulder. **Design:**The sample size is 105 patients. In a clinical trial of 105 patients of both sexes with diagnosis of shoulder pain and shoulder impingement syndrome were randomly included in three groups. **Setting and conduct:** For the first group ketorolac, second group triamcinolone and betamethasone LA for third group was injected. **Participants** including major eligibility criteria: **Inclusion criteria:** all people with shoulder pain referred to orthopedic clinics and diagnostic imaging in the diagnosis of shoulder impingement syndrome has been laid for them and their consent to participate in the study. **Exclusion criteria:** patients with all of the diagnosis except impingement syndrome; Do not go to the next follow up; do not have a history of shoulder dislocation or fracture or a systemic disease that affects the joint and soft tissue . **Intervention:** all patients will be injected with posterior Approach. **Main outcome measures:** For all patients, the results and the variables included pain intensity, functional at weeks 0, 2, 4 and 6 week will be recorded and compared between the groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017042927797N2**

Registration date: **2017-06-07, 1396/03/17**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-06-07, 1396/03/17

Registrant information

Name

Masoud Bahrami Ferydoni

Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research and Technology, Babol University of Medical Sciences

Expected recruitment start date

2016-10-03, 1395/07/12

Expected recruitment end date

2017-04-01, 1396/01/12

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of subacromial Ketorolac, betamethazone LA and triamcinolon injection in treatment of impingement syndrome

Public title

Comparison of subacromial Ketorolac, betamethazone LA and triamcinolon injection in treatment of impingement syndrome

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: all people with shoulder pain referred

to orthopedic clinics and diagnostic imaging in the diagnosis of shoulder impingement syndrome has been laid for them and their consent to participate in the study. Exclusion criteria: patients with all of the diagnosis except impingement syndrome; Do not go to the next follow up; do not have a history of shoulder dislocation or fracture or a systemic disease that affects the joint and soft tissue .

Age

No age limit

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **105**

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**

Ethics committee of Babol University of Medical Sciences

Street address

Babol University of Medical Sciences, Ganjafrooz Street, Babol, Mazandaran, Iran

City

Babol

Postal code**Approval date**

2017-01-31, 1395/11/12

Ethics committee reference number

MUBABOL.HIR.REC.1395.112

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

Impingement syndrome of shoulder

ICD-10 code

M75.4

ICD-10 code description

Impingement syndrome of shoulder

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

Determine the function of the patient

Timepoint

Before injection, weeks 2, 4 and 6 after injection

Method of measurement

By Oxford Shoulder Score questionnaire

2**Description**

Patient pain severity

Timepoint

Before injection, weeks 2, 4 and 6 after injection

Method of measurement

By Visual Analogus Scale questionnaire

Secondary outcomes**1****Description**

Tendon Rupture

Timepoint

weeks 2, 4 and 6 after injection

Method of measurement

Physical Examination

2**Description**

Injection site infection

Timepoint

weeks 2, 4 and 6 after injection

Method of measurement

Observation

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

In Group A subacromial ketorolac injection with a posterior approach will be done.

Category

Treatment - Drugs

2**Description**

In Group B subacromial Triamcinolon injection with a posterior approach will be done.

Category

Treatment - Drugs

3

Description

In Group C subacromial Betamethazon LA injection with a posterior approach will be done.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Babol Shahid Beheshti Hospital

Full name of responsible person

Dr. Masoud Bahrami Ferydoni

Street address

Babol University of Medical sciences, Ganjafrooz street, Babol, Iran

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor of Research and Technology, Babol University of Medical Sciences

Full name of responsible person

Dr. Aliakbar Moghaddamnia

Street address

Babol University of Medical Sciences, Ganjafrooz Street, Babol, Iran

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Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Vice Chancellor of Research and Technology, Babol 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

Babol University of Medical Sciences

Full name of responsible person

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Position

Resident of Orthopedic

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