

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Jul 2026

Comparison of sensitivity and specificity of ultrasonography and plain radiographic image in diagnosis of shoulder dislocation reduction in Rasool akram haospital patients in 2014-2015

Protocol summary

Summary

Objectives: Comparison of sensitivity and specificity of ultrasonography and plain radiographic image in diagnosis of shoulder dislocation reduction. Design: The randomized clinical trial in the emergency department of Rasoul Akram hospital. Setting and conduct: Patients complaining shoulder pain and with probable diagnosis of shoulder dislocation admitted in Emergency Department of Rasoul Akram hospital will be recruited. Standard imagings including AP, Lateral, And Scapular Y views will be conducted to confirm the dislocation. After physical exam and imaging, and confirmation of the diagnosis of shoulder dislocation, the patients will be randomized to two groups and after reduction imaging in one group and sonographic exam in another group will be done to confirm the reduction. After confirmation of reduction, patients will be discharged from emergency department and will be evaluated with an orthopedist within 24 hour time. Participants including major eligibility criteria: Inclusion criteria: Complaint of shoulder pain and probable diagnosis of shoulder dislocation. Exclusion criteria: Patients younger than 18 years and older than 65 years old; Multiple Trauma patients; Patients with unstable hemodynamic. Interventions: Intervention Group: Patients in this group will be evaluated with sonography to confirm reduction. Control Group: Patients in this group will be evaluated with imaging to confirm reduction. Main outcome measures (variable): Confirmation of successful reduction.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201401068104N9**

Registration date: **2015-02-08, 1393/11/19**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-02-08, 1393/11/19

Registrant information

Name

Mohammad Amin Zare

Name of organization / entity

Iran University of Medical Sciences

Country

Iran (Islamic Republic of)

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Email address

ma-zare@sina.tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Iran University of Medical Sciences

Expected recruitment start date

2013-03-20, 1391/12/30

Expected recruitment end date

2014-03-20, 1392/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of sensitivity and specificity of ultrasonography and plain radiographic image in diagnosis of shoulder dislocation reduction in Rasool akram haospital patients in 2014-2015

Public title

Comparison of sensitivity and specificity of ultrasonography and plain radiographic image in diagnosis of shoulder dislocation reduction

Purpose

Diagnostic

Inclusion/Exclusion criteria

Inclusion criteria: Complaint of shoulder pain and probable diagnosis of shoulder dislocation. Exclusion criteria: Patients younger than 18 years and older than 65 years old; Multiple Trauma patients; Patients with unstable hemodynamic.

Age

From **18 years** old to **65 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **20**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not 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 Iran University of Medical Sciences

Street address

Hemmat highway, next to Milad Hospital

City

Tehran

Postal code

Approval date

2014-04-26, 1393/02/06

Ethics committee reference number

105/372

Health conditions studied

1

Description of health condition studied

shoulder dislocation

ICD-10 code

S43.0

ICD-10 code description

Dislocation of shoulder joint

Primary outcomes

1

Description

Successful Reduction of shoulder dislocation

Timepoint

After reduction

Method of measurement

according to imaging or sonography and comparing with the imaging before procedure

Secondary outcomes

empty

Intervention groups

1

Description

Intervention Group: Patients in this group will be evaluated with sonography to confirm reduction.

Category

Diagnosis

2

Description

Control Group: Patients in this group will be evaluated with imaging to confirm reduction.

Category

Diagnosis

Recruitment centers

1

Recruitment center

Name of recruitment center

Hazrat Rasoul Akram hospital

Full name of responsible person

Mohammad Amin Zare, MD

Street address

Emergency department, Hazrate Rasool hospital, Niyayesh street, Sattarkhan

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Iran University of

Medical Sciences

Full name of responsible person

Seyyed Ali Javad Mousavi, MD

Street address

Shahid Hemmat Highway, next to Milad Hospital

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Tehran

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, Iran 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

Iran University of Medical Sciences

Full name of responsible person

Seyyede Mahsa Mahmoudinejad, MD

Position

Emergency Medicine Resident

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