

Clinical Trial Protocol

Iranian Registry of Clinical Trials

13 Jun 2026

Comparison of scapulothoracic mobilization and pectoralis minor stretching on correction of scapular position in scholars with rounded shoulder

Protocol summary

Summary

Rounded shoulder is a common postural abnormality which alters scapular resting position. However different treatments have been proposed to reduce it, the effectiveness of scapular mobilization has not been evaluated. Therefore the purpose of this study is to evaluate the effect of scapular mobilization (SM) in scapular resting position of subjects with rounded shoulder posture (RSP) and to compare it to pectoralis minor self stretching. This is a single blind randomized control clinical trial study. Fifty two subjects, with RSP which will determine by the plump line, between the age of 18 to 30 years old, will participate in this study. If the subjects have acute neck or shoulder girdle pain, macro trauma, history of fracture or shoulder surgery, cardio respiratory problem, and systemic disorders will exclude from study. All subjects will randomly classify in four groups as sustained SM in limited scapula range, pectoralis minor self stretching, combined SM - pectoralis minor self stretch and control. Scapular resting position will determine by Qualisys Sweden three dimensional motion analysis systems. Scapular resting position will calculate before and after on session of intervention. Participants will treat 5 sessions alternatively. After five sessions of interventions, scapular resting position will calculate again. The difference between and within groups will determine after one and five sessions of intervention.

General information

Acronym

non

IRCT registration information

IRCT registration number: **IRCT201206162708N6**

Registration date: **2012-08-20, 1391/05/30**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2012-08-20, 1391/05/30

Registrant information

Name

Ali Ghanbari

Name of organization / entity

Shiraz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 71 1627 1551

Email address

ghanbary@sums.ac.ir

Recruitment status

Recruitment complete

Funding source

Shiraz University of Medical Sciences

Expected recruitment start date

2012-02-04, 1390/11/15

Expected recruitment end date

2012-05-04, 1391/02/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of scapulothoracic mobilization and pectoralis minor stretching on correction of scapular position in scholars with rounded shoulder

Public title

Comparison of scapulothoracic mobilization and

pectoralis minor stretching on correction of scapular position in scholars with rounded shoulder

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion critria: rounded shoulder posture exclusion critria:acute shoulder girdle or neck pain, history of shoulder fracture in last year,surgery,respiratory problems,systemic disorders that influence connective tissue or joints.

Age

From **18 years** old to **30 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **52**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

The Ethics committee of Shiraz University of Medical Science

Street address

Zand Street- Shiraz

City

Shiraz

Postal code

Approval date

2010-09-23, 1389/07/01

Ethics committee reference number

CT-90-5982

Health conditions studied

1

Description of health condition studied

rounded shoulder

ICD-10 code

XIII

ICD-10 code description

Acquired deformity of musculoskeletal system, unspecified

Primary outcomes

1

Description

scapular resting position

Timepoint

before intervention- after one session of intervention- after 5 sessions of intervention

Method of measurement

three dimensional motion analysis system

Secondary outcomes

empty

Intervention groups

1

Description

sustained scapular mobilization with grade IV

Category

Rehabilitation

2

Description

pectoralis minor self stretching

Category

Rehabilitation

3

Description

combined treatment: scapular mobilization and pectoralis minor self stretching

Category

Rehabilitation

4

Description

control without treatment

Category

Rehabilitation

Recruitment centers

1

Recruitment center

Name of recruitment center

Shiraz Uniiversity of Medical Sciences

Full name of responsible person

Dr. Ali Ghanbari

Street address

Rehabilitation School, 1st Abivardi Street, Shiraz

City
Shiraz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Shiraz University of Medical Sciences
Full name of responsible person
Dr Gholamreza Hatam
Street address
Zand street- Shiraz
City
Shiraz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Shiraz 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
Shiraz University of Medical Science
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Person responsible for scientific inquiries

Contact

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Person responsible for updating data

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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