

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Comparison of the effects of mechanical correction of kinesio tape and Mulligan tape methods on electromyography activity and the kinematics of scapulothoracic and kinetics of glenohumeral joints in computer users affected with scapular dyskinesis

Protocol summary

Study aim

comparison the effect of kinesio tape and mulligan tape

Design

single blinded randomized controlled clinical trial

Settings and conduct

motion analysis lab in Tarbiat Modares University in Tehran

Participants/Inclusion and exclusion criteria

subjects in 25 -35 years old and 6 hours of computer use a day

Intervention groups

three kinesio tape, mulligan tape and placebo group

Main outcome variables

BMI; shoulder pain; shoulder function; torque; angular velocity; peak RMS; In this study we we want to know the effect of these three kinds of taping on these parameters or variables and based on the results of this study which treatment is more effective; results of this study show which kind of treatment is more effective; the results of this study help physical therapists to to use the most correct and effective method in mechanical correction of scapular dyskinesis; using motion analysis system; using tape for mechanical correction for the first time;

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20211216053426N1**

Registration date: **2022-03-06, 1400/12/15**

Registration timing: **registered_while_recruiting**

Last update: **2022-03-06, 1400/12/15**

Update count: **0**

Registration date

2022-03-06, 1400/12/15

Registrant information

Name

Shahab Khaki

Name of organization / entity

Tarbiat Modares University

Country

Iran (Islamic Republic of)

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ravanbod@modares.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-02-20, 1400/12/01

Expected recruitment end date

2022-07-23, 1401/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effects of mechanical correction of kinesio tape and Mulligan tape methods on electromyography activity and the kinematics of scapulothoracic and kinetics of glenohumeral joints in computer users affected with scapular dyskinesis

Public title

tape effects on scapular dyskinesis

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

no allergy to tape BMI 20-25 SD type I & II more than 6 hours of computer use a day and 30 average hours per week pain range less than three based on VAS muscle strength more than 4 minus based on dynamometer age between 25 to 30

Exclusion criteria:

professional athlete allergy to tape referral neck pain any surgery and fracture or trauma in shoulder girdle in recent 6 months any rheumatologic disorder, infection, joint injection, and neurologic disorder that interfere with upper limb function any deficit in elbow wrist and fingers

Age

From **25 years** old to **35 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Participant

Sample size

Target sample size: **48**

Randomization (investigator's opinion)

Randomized

Randomization description

randomized controlled clinical trial with letters and participants do not know to which group they belong. An envelope is given to each subject after they open the envelop they know to which group they belong. more explanation destroys the blinded method

Blinding (investigator's opinion)

Single blinded

Blinding description

participants do not know to which group they belong. they know that grouping exists but they do not know to which group they belong. This blinding is that the researcher knows what he/she does how many groups exist and what interventions exist but the only thing that participants know is that a medical tape is attached to them and in one of three groups the will be put accidentally but they do not know that what will happen in each group or in which group they are put

Placebo

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1**

Ethics committee

Name of ethics committee

Research Ethics Committees of Tarbiat Modares University

Street address

Jala st. Tarbiat Modares University

City

Tehran

Province

Tehran

Postal code

1411713116

Approval date

2022-02-26, 1400/12/07

Ethics committee reference number

IR.MODARES.REC.1400.344

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

scapular dyskinesis

ICD-10 code

M89.8X1

ICD-10 code description

Other specified disorders of bone, shoulder

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

scapular mechanical correction

Timepoint

before after and 72 hours after

Method of measurement

motion analysis system

Secondary outcomes

empty

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

Intervention group 1: kinesio tape and investigation of variables immediately and 72 hours later.... then comparison. tape is applied to participants in the first session and they will be analyzed with motion analysis system and surface electromyography. they will go and come again 72 hours later with the same tape and will again be analyzed... personal information is taken in secret and agreement form with complete explanation of course

Category

Rehabilitation

2

Description

Intervention group 2: Mulligan tape and investigation of variables immediately and 72 hours later. then comparison. tape is applied to participants in the first session and they will be analyzed with motion analysis system and surface electromyography. they will go and come again 72 hours later with the same tape and will again be analyzed... personal information is taken in secret and agreement form with complete explanation of course

Category

Rehabilitation

3**Description**

Placebo group or group 3: placebo tape and and investigation of variables immediately and 72 hours later. then comparison. tape is applied to participants in the first session and they will be analyzed with motion analysis system and surface electromyography. they will go and come again 72 hours later with the same tape and will again be analyzed... personal information is taken in secret and agreement form with complete explanation of course

Category

N/A

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

Tarbiat Modares University

Full name of responsible person

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http://www.modares.ac.ir

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

Tarbiat Modares University of Tehran

Full name of responsible person

Dr. Seyed Gholamreza Moosavi

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Grant name

Medical School of Tarbiat Modares University- Dr. Seyed Gholamreza Moosavi

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

Yes

Title of funding source

Tarbiat Modares University of Tehran

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

Academic

Person responsible for general inquiries**Contact****Name of organization / entity**

tarbiat Modares University

Full name of responsible person

Shahab Khaki

Position

M.Sc. student

Latest degree

Bachelor

Other areas of specialty/work

Physiotherapy

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

after making participants anonymous the data is at hand

When the data will become available and for how long

6 months after publication

To whom data/document is available

researchers and physical therapists

Under which criteria data/document could be used

to help treatment

From where data/document is obtainable

Shahab Khaki number 09124375186 and mail

shahab.khaki@yahoo.com

What processes are involved for a request to access data/document

a week to a month

Comments