Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 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)
Phone
+98 21 4044 4527
Email address
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
Shahab Khaki

Street address
Jalal st

City
Tehran

Province
Tehran

Postal code
1471111111

Phone
+98 21 8288 4000

Email
shahab.khaki@yahoo.com

Web page address
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

Street address
Jalal st

City
Tehran

Province
Tehran

Postal code
1471111111

Phone
+98 21 8288 4000

Email
shahab.khaki@yahoo.com

Web page address
http://modares.ac.ir

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

Street address
Jalal st

City
Tehran

Province
Tehran

Postal code
1471111111

Phone
+98 21 8288 4000

Email
shahab.khaki@yahoo.com

Web page address
http://modares.ac.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity
Tarbiat Modares University

Full name of responsible person
Shahab Khaki

Position
M.Sc. student

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Email
shahab.khaki@yahoo.com

Web page address
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Person responsible for updating data

Contact

Name of organization / entity
Tarbiat Modares University

Full name of responsible person
Shahab Khaki

Position
M.Sc. student

Latest degree
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Other areas of specialty/work
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1471111111

Phone
+98 21 8288 4000

Email
shahab.khaki@yahoo.com

Web page address
http://modares.ac.ir

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