

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

The comparison of dry needling and inhibitory Kinesio taping therapeutic effects in female patients with myofascial pain syndrome in upper trapezius muscle

Protocol summary

Study aim

The comparison of dry needling and inhibitory Kinesio taping therapeutic effects in female patients with myofascial pain syndrome in upper trapezius muscle

Design

Non-random (simple convenient method), without placebo control, single arm trial. The sample size of this study is 75 individuals: divided into 3 groups of 25 people.

Settings and conduct

Neuromuscular Rehabilitation Research Center Semnan University of Medical Sciences.

Participants/Inclusion and exclusion criteria

Women aged 20-40 years with upper myocardial infarction pain referring to Tabataba'i center in Semnan. Inclusion criteria: Having chronic pain that lasts at least 3 months from the start; the presence of the tight band in the muscle; having sensitive points in the upper trapezius muscle; recognizing pain. Exclusion criteria: Individuals with fibromyalgia; Individuals with facial nerve neuralgia, rheumatoid arthritis, rheumatic diseases, degenerative diseases, fractures, dislocation, inflammation, bursitis and arthritis; persons with neck and shoulder myopathy, neuropathy, myelopathy and cortical People with history of neck and shoulder surgery and other areas of the body; People with a history of injection in the trigger points of upper trapezius muscle or acupuncture; People with cancer, infection, pain and pathogenesis, acquired immunodeficiency virus; Athletes; people with substance abuse or taking corticosteroid drugs as well as pregnant women; those who have undergone continuous physiotherapy or exercise during the last two weeks; those who received dry needles in the last three months; taking sedative medications; Or alcohol one week prior to evaluation; people with mental and cognitive impairment and uncorrected vision impairment; people with acrylic skin

allergies.

Intervention groups

Control group: Only for comparison with intervention group, no treatment is performed. Intervention group 1: 25 patients will be treated with dry needles according to the protocol (sterile epoxy needles 0.3 mm in diameter and 5 cm in length). Each point will be treated for 2 minutes. Treatment is done every 72 hours for up to two weeks and the follow up is repeated after one week. Intervention group 2: 25 people are treated with an inhibitive movement tape according to the protocol (5 cm bandwidth). The muscle will be measured in its longitudinal position (the neck will bend to the opposite side and rotate to the same side). Treatment is done every 72 hours for up to two weeks and the follow up is repeated after one week.

Main outcome variables

Muscle thickness, Intensity of pain.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20151228025732N28**

Registration date: **2018-01-23, 1396/11/03**

Registration timing: **registered_while_recruiting**

Last update: **2018-01-23, 1396/11/03**

Update count: **0**

Registration date

2018-01-23, 1396/11/03

Registrant information

Name

Alireza Emadi

Name of organization / entity

Semnan University of Medical Sciences, Semnan, Iran

Country

Iran (Islamic Republic of)

Phone

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Email address

are20935@semums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2017-10-18, 1396/07/26

Expected recruitment end date

2018-10-17, 1397/07/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The comparison of dry needling and inhibitory Kinesio taping therapeutic effects in female patients with myofascial pain syndrome in upper trapezius muscle

Public title

The comparison of dry needling and inhibitory Kinesio taping therapeutic effects in female patients with myofascial pain syndrome in upper trapezius muscle

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Women 20 to 40 years Having chronic pain that lasts at least 3 months from the start The presence of tight band in the muscle Having sensitive points in the upper trapezius muscle Recognizing pain

Exclusion criteria:

Individuals with fibromyalgia Individuals with Facial Nerve Neuralgia, Rheumatoid Arthritis, Rheumatic Diseases, Degenerative Diseases, Fractures, Dislocation, Inflammation, Bursitis and Arthritis Persons with Neck and Shoulder Myopathy, Neuropathy, Myelopathy and Cortical People with history of neck and shoulder surgery and other areas of the body People with a history of injection in the trigger points of upper trapezius muscle or acupuncture People with cancer, Infection, Pain and Pathogenesis, Acquired Immunodeficiency virus Athletes people with substance abuse or taking corticosteroid drugs as well as pregnant women Those who have undergone continuous physiotherapy or exercise during the last two weeks Those who received dry needles in the last three months Taking sedative medications or alcohol one week prior to evaluation People with mental and cognitive impairment and uncorrected vision impairment People with acrylic skin allergies

Age

From 20 years old to 40 years old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 75

Randomization (investigator's opinion)

Not randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Factorial

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Semnan University of Medical Sciences

Street address

Semnan University of Medical Sciences, Basij Blvd, Semnan

City

Semnan

Province

Semnan

Postal code

3514799442

Approval date

2017-10-18, 1396/07/26

Ethics committee reference number

IR.SEMUMS.REC.1396.109

Health conditions studied

1

Description of health condition studied

Myofascial pain syndrome in upper trapezius muscle

ICD-10 code

G71.8

ICD-10 code description

Other primary disorders of muscles

Primary outcomes

1

Description

Muscle thickness

Timepoint

Before and after the intervention

Method of measurement

Sonography

2**Description**

Intensity of pain

Timepoint

Before and after the intervention

Method of measurement

Visual Analogue Scale (VAS)

Secondary outcomes

empty

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

Control group: Only for comparison with intervention group, no treatment is performed.

Category

Treatment - Other

2**Description**

Intervention group 1: 25 patients will be treated with dry needles according to the protocol (sterile epoxy needles 0.3 mm in diameter and 5 cm in length). Each point will be treated for 2 minutes. Treatment is done every 72 hours for up to two weeks and the follow up is repeated after one week.

Category

Rehabilitation

3**Description**

Intervention group 2: 25 people are treated with an inhibitive movement tape according to the protocol (5 cm bandwidth). The muscle will be measured in its longitudinal position (the neck will bend to the opposite side and rotate to the same side). Treatment is done every 72 hours for up to two weeks and the follow up is repeated after one week.

Category

Rehabilitation

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

Tabataba'i center

Full name of responsible person

Sirous Taghizadeh-Delkhosh

Street address

Tabataba'i center, Ghods Blvd

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

Semnan University of Medical Sciences

Full name of responsible person

Mohammadreza Asgari

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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

Semnan University of Medical Sciences

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**

Semnan University of Medical Sciences

Full name of responsible person

Sirous Taghizadeh-Delkhosh

Position

Associate professor

Latest degree

Ph.D.

Other areas of specialty/work

Physiotherapy

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Full name of responsible person

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Position

Associate professor

Latest degree

Ph.D.

Other areas of specialty/work

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Person responsible for updating data**Contact****Name of organization / entity**

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Soghra Bakhshi

Position

Students

Latest degree

Master

Other areas of specialty/work

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

Yes - There is a plan to make this available

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

No - There is not a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available

Title and more details about the data/document

-

When the data will become available and for how long

-

To whom data/document is available

Only available to scholars working in academic institutions.

Under which criteria data/document could be used

In case of relevant studies.

From where data/document is obtainable

Sirous Taghizadeh-Delkhosh. Tabataba'i center, Ghods Blvd, Semnan. 00989123311988

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

-

Comments