Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Comparison Of Cervical Mobilization and Thoracic Manipulation in Myofascial Temporomandibular Dysfunction to Improve Pain and Function

Protocol summary

Study aim
To compare the effect of cervical mobilization and thoracic manipulation on pain and function in myofascial temporomandibular joint dysfunction patients

Design
Randomized Clinical trial. (RCT)

Settings and conduct
• Life Line Hospital Lahore. • Fatima Memorial Hospital Shadman Lahore

Participants/Inclusion and exclusion criteria
Inclusion criteria: 1 Myofascial pain in region of TMJ. 2. Reduced mouth opening measured by using 3fingers and 2 knuckles. 3. Age group in range of 20-40 years. 4. Females only. 5. Presence of any taut band and trigger point in surrounding area. 6. Reproduction of referred pain pattern of trigger point in response to palpation. 6.8 Exclusion criteria: 1. Degenerative TMJ arthritis 2. Malignant tumor of face and jaw. 3. History of fracture and dislocation of TMJ. 4. History of previous surgery of jaw or TMJ. 5. Neurological disorders includes stroke, bell's palsy and spinal cord injury 6. Hypermobile TMJ. 7. Osteoporotic patient

Intervention groups
Group A : Cervical Mobilization Group B : Thoracic Manipulation

Main outcome variables
1. Pain 2. Function

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20191130045553N1**
Registration date: **2019-12-17, 1398/09/26**
Registration timing: **registered_while_recruiting**

Last update: **2019-12-17, 1398/09/26**
Update count: **0**

Registration date
2019-12-17, 1398/09/26

Registrant information
Name
Ayesha Mateen
Name of organization / entity
Riphah International University QIE Campus, Lahore.
Country
Pakistan
Phone
+92 42 35126110
Email address
ayeshamateen6@gmail.com

Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2019-12-02, 1398/09/11

Expected recruitment end date
2020-03-02, 1398/12/12

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
Comparison Of Cervical Mobilization and Thoracic Manipulation in Myofascial Temporomandibular Dysfunction to Improve Pain and Function

Public title
Comparison Of Cervical Mobilization and Thoracic Manipulation in Myofascial Temporomandibular Dysfunction to Improve Pain and Function.

Purpose
Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

1 Myofascial pain in region of TMJ. Reduced mouth opening measured by using 3 fingers and 2 knuckles. Age group in range of 20-40 years. Females only. Presence of any taut band and trigger point in surrounding area. Reproduction of referred pain pattern of trigger point in response to palpation.

Exclusion criteria:

1. Degenerative TMJ arthritis. Malignant tumor of face and jaw. History of fracture and dislocation of TMJ. History of previous surgery of jaw or TMJ. Neurological disorders include stroke, bell's palsy and spinal cord injury. Hypermobile TMJ. Osteoporotic patient.

Age

From **20 years** old to **40 years** old

Gender

Female

Phase

N/A

Groups that have been masked

- Outcome assessor

Sample size

Target sample size: **46**

Randomization (investigator's opinion)

Randomized

Randomization description

Once the above mentioned inclusion and exclusion criteria will be taken into account, potential participants will be considered. They will be requested to participate in the study. Written informed consent will be taken. Patient will be recruited into Group A and Group B by lottery method. Each participant will be requested to draw either odd number or even number from a box. Odd Numbers will be allocated to Group A and even number will be allocated to group B.

Blinding (investigator's opinion)

Single blinded

Blinding description

single blinded

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethical Committee of Riphah International University

Street address

13-14-C-Civic Center Near Hamdard Chowk ,Township ,Lahore.

City

Lahore

Postal code

54000

Approval date

2019-07-16, 1398/04/25

Ethics committee reference number

RCRS & AHS/REC/MS-OMPT/S19/001

Health conditions studied

1

Description of health condition studied

Temporomandibular Joint Dysfunction

ICD-10 code

M26.6

ICD-10 code description

Temporomandibular joint disorders

Primary outcomes

1

Description

Pain

Timepoint

Treatment will be given to both group for 2 weeks,5 session per week

Method of measurement

Numeric Pain Rating Scale (NPRS)

2

Description

Function

Timepoint

Treatment will be given to both group for 2 weeks,5 session per week

Method of measurement

Mandibular Function Impairment Questionnaire.(MFIQ)

3

Description

Function

Timepoint

Treatment will be given to both group for 2 weeks,5 session per week

Method of measurement

Temporomandibular Dysfunction Disability Index Questionnaire.(TMDIQ)

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Cervical Mobilzation

Category

Treatment - Other

2

Description

Intervention group: Thoracic Manipulation

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Fatima Memorial Hospital Shadman, Lahore.

Full name of responsible person

Farhia Shah

Street address

Shadman Rd, Ichra Lahore,

City

Lahore

Postal code

54000

Phone

+92 42 35940444

Email

farhia@gmail.com

2

Recruitment center

Name of recruitment center

Life Line Hospital ,Lahore

Full name of responsible person

Muhammad Salman Bashir

Street address

462, 463 G3 Johar Town, Lahore,

City

Lahore

Postal code

54000

Phone

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Email

salman.bashir@riphah.edu.pk

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Riphah International University

Full name of responsible person

Muhammad Salman Bashir

Street address

13-14-C-Civic Center Near Hamdard Chowk, Township Lahore.

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Grant name

N/A

Grant code / Reference number

N/A

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

Yes

Title of funding source

Riphah International University

Proportion provided by this source

15

Public or private sector

Private

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

Riphah International University QIE Campus ,Lahore.

Full name of responsible person

Ayesha Mateen

Position

Student

Latest degree

Bachelor

Other areas of specialty/work

Physiotherapy

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Person responsible for scientific inquiries

Contact

Name of organization / entity

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Full name of responsible person

Muhammad Salman Bashir

Position
Associate Professor

Latest degree
Ph.D.

Other areas of specialty/work
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Person responsible for updating data

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Full name of responsible person
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Position
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Latest degree
Bachelor

Other areas of specialty/work
Physiotherapy

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Sharing plan

Deidentified Individual Participant Data Set (IPD)
Undecided - It is not yet known if there will be a plan to make this available

Study Protocol
Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan
No - There is not a plan to make this available

Informed Consent Form
Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report
Undecided - It is not yet known if there will be a plan to make this available

Analytic Code
Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary
Undecided - It is not yet known if there will be a plan to make this available