

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jul 2026

Comparative analysis of efficacy of muscle energy technique and static stretching techniques in enhancing flexibility following burn contracture in elbow

Protocol summary

Study aim

The study will be conducted to investigate the best technique in increasing flexibility in post burn contractures in elbow joint

Design

This study will be a Randomized clinical trial with a sample size of 60 burn patients with contractures who had decreased muscle flexibility as a result of partial thickness burn. Data will be selected through convenient sampling from the Burn Unit Ward of Allied Hospital, Faisalabad. However, Informed consent will be taken from participants. Palpation, Visual analogue scale and goniometer will be used for pre and post-assessment. Sixty patients will be divided into two groups, thirty in each group. Group (1): received Muscle Energy Technique (MET), Group (2): received 20 sec of static stretching exercise. Measurements of elbow extension range of motion were conducted before treatment, post 5 days of treatment, and after 8 days of treatment.

Settings and conduct

Burn Unit Ward of Allied Hospital, Faisalabad

Participants/Inclusion and exclusion criteria

Inclusion criteria: Age 20-50 years Gender (both) 2nd degree deep and 3rd degree burns in elbow Patients with unilateral tight elbow flexors Superficial skin grafted individual Subjects not involved in any exercise activity at the start of the study Exclusion criteria: history of serious pathology (e.g. malignancy, inflammatory disorder, infection) history of cervical radiculopathy hand deformities fractured or dislocated elbow

Intervention groups

Sixty patients will be divided into two groups, thirty in each group. Group (1): received Muscle Energy Technique (MET), Group (2): received 20 sec of static stretching exercise.

Main outcome variables

Pain; Range of motion

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20220930056062N6**

Registration date: **2024-06-18, 1403/03/29**

Registration timing: **prospective**

Last update: **2024-06-18, 1403/03/29**

Update count: **0**

Registration date

2024-06-18, 1403/03/29

Registrant information

Name

Kaينات Shafique

Name of organization / entity

The University of Faisalabad

Country

Pakistan

Phone

+92 334 6925051

Email address

kaيناتshafique@yahoo.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2024-06-19, 1403/03/30

Expected recruitment end date

2024-07-29, 1403/05/08

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty	
Scientific title Comparative analysis of efficacy of muscle energy technique and static stretching techniques in enhancing flexibility following burn contracture in elbow	Street address Gulberg Faisalabad
	City Faisalabad
	Postal code 38000
Public title Efficacy of muscle energy technique and static stretching techniques in burn contractures of elbow	Approval date 2024-05-01, 1403/02/12
Purpose Treatment	Ethics committee reference number 5715
Inclusion/Exclusion criteria Inclusion criteria: Age 20-50 years Gender (both) 2nd degree deep and 3rd degree burns in elbow Patients with unilateral tight elbow flexors Superficial skin grafted individual Subjects not involved in any exercise activity at the start of the study Exclusion criteria: History of serious pathology (e.g. malignancy, inflammatory disorder, infection) Fractured or dislocated elbow Hand deformities History of cervical radiculopathy	Health conditions studied
Age From 20 years old to 50 years old	<u>1</u> Description of health condition studied Contracture, elbow
Gender Both	ICD-10 code M24.52
Phase N/A	ICD-10 code description Contracture, elbow
Groups that have been masked Participant	Primary outcomes
Sample size Target sample size: 60	<u>1</u> Description Pain
Randomization (investigator's opinion) Randomized	Timepoint Assessment will be conducted before treatment, post 5 days of treatment and after 8 days of treatment
Randomization description Randomization through lottery method. Each participant will be asked to choose between two pieces of paper labeled "Group A" and "Group B." They will be assigned to treatment groups based on the paper they select.	Method of measurement Visual analogue scale
Blinding (investigator's opinion) Single blinded	<u>2</u> Description Range of motion
Blinding description Patients will be blind in this clinical trial	Timepoint Assessment will be conducted before treatment, post 5 days of treatment and after 8 days of treatment
Placebo Not used	Method of measurement goniometer
Assignment Other	Secondary outcomes empty
Other design features	Intervention groups
Secondary Ids empty	<u>1</u> Description Intervention group 1: Muscle Energy Technique
Ethics committees	Category Rehabilitation
<u>1</u> Ethics committee Name of ethics committee Government College University Faisalabad	<u>2</u> Description Intervention group 2: Static Stretching
	Category

Recruitment centers

1

Recruitment center

Name of recruitment center

Allied Hospital faisalabad

Full name of responsible person

Rafia Imtiaz

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Sponsors / Funding sources

1

Sponsor

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

No

Title of funding source

It is a self funded study. All financial expenses are bear personally

Proportion provided by this source

1

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

Persons

Person responsible for general inquiries

Contact

Name of organization / entity

Government College University Faisalabd

Full name of responsible person

Rafia Imtiaz

Position

Lecturer

Latest degree

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

Privacy concerns

Study Protocol

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

Statistical Analysis Plan

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

Informed Consent Form

Yes - There is 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

Title and more details about the data/document

Comparative analysis of efficacy of muscle energy technique and static stretching techniques in enhancing flexibility following burn contracture in elbow

When the data will become available and for how long

Data from this trial will not be made publicly available. However, it may be accessible upon request. For inquiries regarding data access, please contact rafiaimtiaz@gcuf.edu.pk

To whom data/document is available

Data from this trial will not be made publicly available. However, it may be accessible upon request. For inquiries regarding data access, please contact rafiaimtiaz@gcuf.edu.pk.

Under which criteria data/document could be used

Data from this trial will not be made publicly available. However, it may be accessible upon request. For inquiries regarding data access, please contact rafiaimtiaz@gcuf.edu.pk.

From where data/document is obtainable

Data from this trial will not be made publicly available. However, it may be accessible upon request. For inquiries regarding data access, please contact rafiaimtiaz@gcuf.edu.pk.

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

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Comments