

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

21 Jun 2026

### Effect of Instrument Assisted Soft Tissue Mobilization Ergon Technique on Pain, Strength and Range of Motion in Plantar Fasciitis Patients: A Randomized Controlled Trial.

#### Protocol summary

##### Study aim

To compare the effects of Ergon Therapy with Routine physical therapy treatment (cryotherapy, ultrasound therapy and stretching exercises) in treating plantar fasciitis.

##### Design

A single blinded randomized controlled trial study will be carried out on patients having Planter fasciitis. Patients will be recruited from Department of Physiotherapy, University of Lahore Teaching Hospital, Lahore and Citi hospital Lahore. They will be assessed on selection criteria and eligible participants will be randomly allocated into two groups, using sealed enveloped method. Patients will be treated three times a week for total 5 weeks. After allocation in groups, participants will be assessed at baseline. Afterwards data will be collected at 1st-week intervals then 3rd week until the conclusion of 5th-week of interventions. All assessments will be performed by the same assessor at all stages of data collection for all patients.

##### Settings and conduct

Physical Therapy Department of University of Lahore teaching hospital, Citi hospital Lahore

##### Participants/Inclusion and exclusion criteria

Inclusion Criteria: • Diagnosed patients of plantar fasciitis. • Age more than 18 years and less than 40 and Both genders. • Connective tissue disorders (Osteoarthritis, Rheumatoid arthritis, Osteoporosis, Fibromyalgia). Exclusion Criteria: • History of previous surgical treatment or cancer of the heel • Foot and/or ankle fracture Congenital deformity

##### Intervention groups

Group A will be treated with routine physiotherapy program Group B will be treated with routine physiotherapy program combined with Ergon technique

##### Main outcome variables

Visual Analogue Scale, Manual muscle testing and

Goniometer

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20210816052201N2**

Registration date: **2021-10-11, 1400/07/19**

Registration timing: **retrospective**

Last update: **2021-10-11, 1400/07/19**

Update count: **0**

##### Registration date

2021-10-11, 1400/07/19

##### Registrant information

##### Name

Sana Akram

##### Name of organization / entity

The University of Lahore, Lahore Pakistan

##### Country

Pakistan

##### Phone

+92 42 35183083

##### Email address

sana.akram@uipt.uol.edu.pk

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2021-03-01, 1399/12/11

##### Expected recruitment end date

2021-05-10, 1400/02/20

##### Actual recruitment start date

2021-03-13, 1399/12/23

##### Actual recruitment end date

2021-07-15, 1400/04/24  
**Trial completion date**  
2021-11-25, 1400/09/04

**Scientific title**  
Effect of Instrument Assisted Soft Tissue Mobilization Ergon Technique on Pain, Strength and Range of Motion in Plantar Fasciitis Patients: A Randomized Controlled Trial.

**Public title**  
Effect of Instrument Assisted Soft Tissue Mobilization Ergon Technique on Pain, Strength and Range of Motion in Plantar Fasciitis Patients: A Randomized Controlled Trial.

**Purpose**  
Treatment

**Inclusion/Exclusion criteria**  
**Inclusion criteria:**  
Diagnosed patients of plantar fasciitis Connective tissue disorders (Osteoarthritis, Rheumatoid arthritis, Osteoporosis, Fibromyalgia)  
**Exclusion criteria:**  
History of previous surgical treatment or cancer of the heel Foot and/or ankle fracture Congenital deformity

**Age**  
From **18 years** old to **40 years** old

**Gender**  
Both

**Phase**  
2-3

**Groups that have been masked**

- Outcome assessor

**Sample size**  
Target sample size: **32**  
Actual sample size reached: **32**

**Randomization (investigator's opinion)**  
Randomized

**Randomization description**  
Patients will be randomly allocated in two treatment groups by computer generated table number. After randomization, opaque sealed envelope will be offered to the patients. Once a patient has consented to enter a trial, an envelope is opened by clinician and treatment will be provided according to the group mention on the envelope. Group A will be treated with routine physiotherapy program Group B will be treated with routine physiotherapy program combined with Ergon technique .

**Blinding (investigator's opinion)**  
Single blinded

**Blinding description**  
The assessor will be blinded by hiding the identity of patients. The patients will be trained not to give any hint about their allocation and their treatment groups. Blinding will be assessed by asking the assessor(force choice) to tell about patient group and a significant test will be used to see if there is a substantial chance that the assessor know about patient group identity for this p-value less than .05 will be used as significant value.

**Placebo**

Not used  
**Assignment**  
Parallel

**Other design features**

**Secondary Ids**  
empty

**Ethics committees**

**1**

**Ethics committee**  
**Name of ethics committee**  
Ethics committee of University of Lahore(Institutional Review Board)  
**Street address**  
The University of Lahore  
**City**  
Lahore  
**Postal code**  
54000  
**Approval date**  
2021-02-25, 1399/12/07  
**Ethics committee reference number**  
822

## Health conditions studied

**1**

**Description of health condition studied**  
Planter Fasciitis  
**ICD-10 code**  
M72.2  
**ICD-10 code description**  
Plantar fascial fibromatosis

## Primary outcomes

**1**

**Description**  
Primary outcome variables are pain, range of motion and strength

**Timepoint**  
Patients will be recruited from Department of Physiotherapy, University of Lahore Teaching Hospital, Lahore and Citi hospital Lahore. They will be assessed on selection criteria and eligible participants will be randomly allocated into two groups, using sealed enveloped method. Patients will be treated three times a week for total 5 weeks. After allocation in groups, participants will be assessed at baseline. Afterwards data will be collected at 1st-week intervals then 3rd week until the conclusion of 5th-week of interventions. All assessments will be performed by the same assessor at all stages of data collection for all patients

**Method of measurement**  
Visual Analogue Scale (VAS):It is used in clinical research to measure the intensity or frequency of Pain. Universal

Goniometer: An instrument which measures the available range of motion (ROM) at a joint. Strength: Manual Muscle Testing is the most commonly used method for documenting impairments in muscle strength.

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group: will receive instrument assisted soft tissue mobilization technique for fifteen minutes using ergon tools and conventional treatment including cryotherapy (10 minutes), ultrasound therapy (10 minutes) and Planter fascia stretching exercises (10 minutes), total time (45minutes/session). The Ergon with Conventional Therapy group will treated with 3 sessions per week.

#### Category

Treatment - Other

### 2

#### Description

Control group: will receive conventional treatment including cryotherapy (10 minutes), ultrasound therapy (10 minutes) and Planter fascia stretching exercises (10 minutes), total time (30minutes/session).The conventional group will also treated with 3 session per week.

#### Category

Treatment - Other

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

The University of Lahore teaching hospital

##### Full name of responsible person

Sana Akram

##### Street address

The University of Lahore

##### City

Lahore

##### Postal code

54000

##### Phone

+92 42 31083083

##### Email

sana.akrampt@gmail.com

## Sponsors / Funding sources

### 1

#### Sponsor

#### Name of organization / entity

The University of Lahore

#### Full name of responsible person

Professor Dr. Ashfaq Ahmed

#### Street address

The University of Lahore

#### City

Lahore

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54000

#### Phone

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#### Email

ashfaq.ahmad@uipt.uol.edu.pk

#### Grant name

#### Grant code / Reference number

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

Yes

#### Title of funding source

The University of Lahore

#### Proportion provided by this source

100

#### 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

The University of Lahore, Lahore Pakistan

##### Full name of responsible person

Asim Arif

##### Position

Assistant Professor

##### Latest degree

Master

##### Other areas of specialty/work

Physiotherapy

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##### City

Lahore

##### Province

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##### Phone

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##### Fax

##### Email

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## Person responsible for scientific inquiries

### Contact

**Name of organization / entity**

The University of Lahore, Lahore Pakistan

**Full name of responsible person**

Asim Arif

**Position**

Assistant Professor

**Latest degree**

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**Other areas of specialty/work**

Physiotherapy

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## Person responsible for updating data

### Contact

**Name of organization / entity**

The University of Lahore

**Full name of responsible person**

Khadija Nadeem

**Position**

Physical therapist

**Latest degree**

Bachelor

**Other areas of specialty/work**

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**Phone**

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**Email**

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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**

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**

Effect of Instrument Assisted Soft Tissue Mobilization Ergon Technique on Pain, Strength and Range of Motion in Plantar Fasciitis Patients: A Randomized Controlled Trial.

**When the data will become available and for how long**

After publication of article the data will be available

**To whom data/document is available**

The data will be available to all kinds of Academic researchers

**Under which criteria data/document could be used**

A request can be processed by the study sponsor or by a delegate of the sponsor (e.g., an academic institution).

**From where data/document is obtainable**

Applicant must contact cores ponder of a research through email address

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

Applicant must contact cores ponder of a research through email address

**Comments**

I am very thankful to Iranian trial registry team for making steps brief and to the point for registration