

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

The effect of clothing weight on the ground reaction force and selected electrical activities of the lower limbs in healthy and blind people when performing archery skills

Protocol summary

Study aim

The effect of clothing weight on the range of ground reaction force in healthy and blind people when performing archery skills The effect of clothing weight on the range of electrical activity of selected muscles of the lower limb in healthy and blind people during the execution of the tyroman skill The effect of clothing weight on static balance in healthy and blind people while performing archery skills

Design

This project has a control group and an experimental group

Settings and conduct

This study will be conducted in a single-blind manner at the health and wellness center of Mohaghegh Ardabili University

Participants/Inclusion and exclusion criteria

1. Not taking intra-articular injection drugs 2. Not taking oral and stimulant drugs for 3 months before entering the study 3. Not having a history of injury 4. Injury or surgery or postural abnormalities affecting the research process 5. No long-term history of taking drugs affecting the musculoskeletal system 6. Absence of addiction. 7. Not consuming alcoholic beverages 8. Has a normal sole

Intervention groups

Wearing a shooting suit

Main outcome variables

This research can be useful for blind archers

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20230928059546N1**

Registration date: **2023-10-25, 1402/08/03**

Registration timing: **retrospective**

Last update: **2023-10-25, 1402/08/03**

Update count: **0**

Registration date

2023-10-25, 1402/08/03

Registrant information

Name

Mohsen Barghamadi

Name of organization / entity

University mohaghegh aidebili

Country

Iran (Islamic Republic of)

Phone

+98 45 3150 5627

Email address

77s.imani@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-10-14, 1402/07/22

Expected recruitment end date

2023-10-20, 1402/07/28

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of clothing weight on the ground reaction force and selected electrical activities of the lower limbs in healthy and blind people when performing archery skills

Public title

The effect of clothing weight on the ground reaction

force and selected electrical activities of the lower limbs in healthy and blind people when performing archery skills

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria:

being blind

Exclusion criteria:

Age

From **23 years** old to **28 years** old

Gender

Male

Phase

N/A

Groups that have been masked

- Participant

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

The subjects did not know the number of groups

Placebo

Used

Assignment

Other

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Mohaghegh Ardabili University

Street address

University

City

ardabil

Province

Ardabil

Postal code

5619913131

Approval date

2023-08-27, 1402/06/05

Ethics committee reference number

IR.UMA.REC.1402.040

Health conditions studied

1

Description of health condition studied

blind

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

The effect of clothing weight on the ground reaction force and selected electrical activities of the lower limbs in healthy and blind people when performing archery skills

Timepoint

Testing is completed in 3 sessions

Method of measurement

Force plate and electromyography

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: A group of blind people wear shooting suits

Category

Diagnosis

2

Description

Control group: There will be no intervention on this group

Category

Diagnosis

Recruitment centers

1

Recruitment center

Name of recruitment center

Health and Wellness Center of Mohaghegh Ardabili University

Full name of responsible person

behrouz heidari

Street address

Ardabil University

City

Ardabil

Province

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5619913131

Phone

+98 45 3150 5612

Email
behroozheidari@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Mohaghegh Ardabili University
Full name of responsible person
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Email
manafzadeh@gmail.com

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Mohaghegh Ardabili University

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
Mohaghegh Ardabili University
Full name of responsible person
Mohsen barghamadi
Position
Associate professor
Latest degree
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Other areas of specialty/work
Sport biomechanics
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Person responsible for updating data

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Barghamadi@uma.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

No - There is not a plan to make this available

Clinical Study Report

Not applicable

Analytic Code

Not applicable

Data Dictionary

Not applicable

Title and more details about the data/document

Publishing in scientific articles extracted from the project under study

When the data will become available and for how long

After finishing the thesis

To whom data/document is available

Academic and scientific institutions

Under which criteria data/document could be used

Publishing in scientific articles extracted from the project under study

From where data/document is obtainable

Articles extracted from this plan

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

Refer to the article

Comments