

# 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**

Ardabil

##### **Postal code**

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**

Arman manafzadeh

**Street address**

Ardabil University

**City**

Ardabil

**Province**

Ardabil

**Postal code**

5619913131

**Phone**

+98 45 3150 5615

**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**

Ph.D.

**Other areas of specialty/work**

Sport biomechanics

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Ardabil University

**City**

Ardabil

**Province**

Ardabil

**Postal code**  
5619913131

**Phone**  
+98 45 3150 5627

**Email**  
Barghamadi@uma.ac.ir

## Person responsible for scientific inquiries

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## Person responsible for updating data

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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

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