

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Sep 2026

posture assessment and comfort measurement while working with different types of computer input devices

Protocol summary

Summary

This study is carried out to investigate postural angles and users' comfort while working with touch screen as compared to standard mouse and touch pad. In this study, 21 right-handed students of SUMS with complete vision and with no musculoskeletal problems participate. In a 80-minute trials, all subjects work with the three above mentioned input devices and do a defined standard task. During the trial, postural angles are measured by motion analysis Qualysis system. The subjects' perception about comfort and working posture are assessed as well. It is to be noted that all subjects experience all types of interventions. The results obtained while working with the three devices are compared to one another. With-in subject test is used to analyze the data.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014113020142N2**

Registration date: **2014-12-25, 1393/10/04**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-12-25, 1393/10/04

Registrant information

Name

Alireza Choobineh

Name of organization / entity

School of Public Health, Shiraz University of Medical Sciences

Country

Iran (Islamic Republic of)

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+98 71 3725 1020

Email address

alrchoobin@sums.ac.ir

Recruitment status

Recruitment complete

Funding source

Shiraz University of Medical Sciences

Expected recruitment start date

2014-06-21, 1393/03/31

Expected recruitment end date

2014-12-21, 1393/09/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

posture assessment and comfort measurement while working with different types of computer input devices

Public title

Posture and comfort evaluation in computer users

Purpose

Prevention

Inclusion/Exclusion criteria

]Inclusion criteria: right-handed; healthy vision; no musculoskeletal disorders Exclusion criteria: left-handed; vision problem; suffering from musculoskeletal disorders

Age

From **18 years** old to **30 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size
Target sample size: **21**

Randomization (investigator's opinion)
N/A

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Shiraz University of Medical Sciences

Street address
Zand Street

City
Shiraz

Postal code

Approval date
2013-11-05, 1392/08/14

Ethics committee reference number
CT-92-6761

Health conditions studied

1

Description of health condition studied
Soft tissue disorders

ICD-10 code
M79.9

ICD-10 code description
Soft tissue disorder, unspecified

Primary outcomes

1

Description
Head inclination in Sagital plane

Timepoint
15 minutes

Method of measurement
Qualysis motion analysis system

2

Description
Neck inclination in Sagital plane

Timepoint

During the 15-min trial

Method of measurement
Qualysis motion analysis system

3

Description
Trunk inclination in Sagital plane

Timepoint
During the 15-min trial

Method of measurement
Qualysis motion analysis system

4

Description
Arm angle in Sagital plane

Timepoint
During the 15-min trial

Method of measurement
Qualysis motion analysis system

5

Description
Trunk angle

Timepoint
During the 15-min trial

Method of measurement
Qualysis motion analysis system

6

Description
Elbow angle

Timepoint
During the 15-min trial

Method of measurement
Qualysis motion analysis system

7

Description
Local postural discomfort and pain

Timepoint
At the end of the 15-min trial

Method of measurement
Numerical visual analogue rating scale

8

Description
Subject perception about working posture

Timepoint
At the end of the 15-min trial

Method of measurement
Verbal rating scale

Secondary outcomes

empty

Intervention groups

1

Description

The intervention is change of computer input device. All subjects experience all interventions. In the lab before the onset of the experiment, each subject complete a demographic questionnaire. Then, the first computer input device is randomly selected and the subject is asked to work with it and do a defined standard task for 15 minutes. During this time the postural angles are measured. After this stage, there is a 10-minute rest time when the subject is asked to judge about working condition and comfort of working with the device. After this period of rest, the second trial begins under identical condition. In this stage, the subject work with the second randomly selected device and do the standard task for 15 minutes and the same procedure is repeated until the third device is also worked with.

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

School of Rehabilitation Sciences, Shiraz University of Medical Sciences

Full name of responsible person

Ms Najmeh Kargar

Street address

Chamran Boulevard, School of Rehabilitation Sciences

City

Shiraz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shiraz University of Medical Sciences

Full name of responsible person

Dr Sayed Basir Hashemi

Street address

Zand street

City

Shiraz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Shiraz University of Medical Sciences

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

empty

Person responsible for general inquiries

Contact

Name of organization / entity

Shiraz University of Medical Sciences

Full name of responsible person

Dr Alireza Choobineh

Position

Professor

Other areas of specialty/work

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Web page address

Sharing plan

Deidentified Individual Participant Data Set (IPD)

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty