Clinical Trial Protocol
Iranian Registry of Clinical Trials

21 Jun 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 Qualyisis 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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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 rationg 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 Rehabilitaion Sciences, Shiraz University of Medical Sciences

Full name of responsible person
Ms Najmeh Kargar

Street address
Chamran Boulevard, School of Rehabilitaion 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
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Full name of responsible person
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Position
Professor

Other areas of specialty/work

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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