

Clinical Trial Protocol

Iranian Registry of Clinical Trials

23 Jun 2026

The Effect of Ergonomics Education on Knowledge, Attitude and Practice of a Group of Dental Students of Babol University of Medical Sciences Related to Working Body Posture: A Clinical Trial

Protocol summary

Summary

Objective: The objective is to evaluate the effectiveness of ergonomics educational intervention on knowledge, attitude and practice of dental students related to working body posture. Design: Fifty right-handed dental students Setting and conduct: In an interventional study, fifty right-handed dental students aged 20-25 years were requested to fill out the tailored-made questionnaire about ergonomics in dentistry before and after the educational intervention to evaluate knowledge, attitude and practice. They also frequently paid attention for their sitting posture while treating the schoolchildren during four weeks. The raw data were analyzed by chi-square, independent t-test and paired sample t-test at significant level of $P < 0.05$. Participants including major eligibility criteria: Right-handed dental students aged 20-25 year old who were attending the pediatric dentistry course were included in this study. Intervention: Ergonomics education Main outcome measures (variables): Knowledge, Attitude, Practice

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015041721519N3**

Registration date: **2015-06-08, 1394/03/18**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-06-08, 1394/03/18

Registrant information

Name

Samane Gharekhani

Name of organization / entity

Babol University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 11 3219 9592

Email address

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Recruitment status

Recruitment complete

Funding source

Babol University of Medical Sciences

Expected recruitment start date

2013-12-22, 1392/10/01

Expected recruitment end date

2014-06-15, 1393/03/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The Effect of Ergonomics Education on Knowledge, Attitude and Practice of a Group of Dental Students of Babol University of Medical Sciences Related to Working Body Posture: A Clinical Trial

Public title

The Effect of Ergonomics Education on Knowledge, Attitude and Practice Related to Working Body Posture

Purpose

Health service research

Inclusion/Exclusion criteria

Inclusion criteria: Right-handed dental students aged 20-25 year old who were attending the pediatric dentistry course Exclusion criteria: Left-handed dental

students and someone who aged more than 25 years .

Age

From **20 years** old to **25 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **50**

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

Ethics Committee of Babol University of Medical Sciences

Street address

Babol University of Medical Sciences, Ganj Afrooz street, Babol

City

Babol

Postal code

Approval date

2014-06-03, 1393/03/13

Ethics committee reference number

30/4232/پ/ز

Health conditions studied

1

Description of health condition studied

Work related musculoskeletal disorder

ICD-10 code

M96.9

ICD-10 code description

Postprocedural musculoskeletal disorder, unspecified

Primary outcomes

1

Description

Knowledge related to working body posture

Timepoint

At the baseline and 4 weeks after the intervention

Method of measurement

Tailored-made Questionnaire

2

Description

Attitude related to working body posture

Timepoint

At the baseline and 4 weeks after the intervention

Method of measurement

Tailored-made Questionnaire

3

Description

Practice related to working body posture

Timepoint

At the baseline and 4 weeks after the intervention

Method of measurement

Tailored-made Questionnaire

Secondary outcomes

1

Description

Ergonomic sitting posture

Timepoint

Every day within 4 weeks after the intervention

Method of measurement

Observation/Check list

Intervention groups

1

Description

Education of ergonomics principles about working body posture in form of 15 minutes lecture

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Babol Dental School

Full name of responsible person

Street address

City

Babol

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Babol University of Medical Sciences

Full name of responsible person

Ali Akbar Moghadamnia

Street address

Babol University of Medical Sciences, Ganj Afrooz street, Babol

City

Babol

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Vice chancellor for research, Babol 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**

, Department of Pediatric Dentistry, School of Dentistry, Babol University of Medical Sciences, Babo

Full name of responsible person

Samane Gharekhani

Position

Assistant Professor

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Fax**Email****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