Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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

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Name of organization / entity

Babol University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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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/ژ/پ

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
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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