

Clinical Trial Protocol

Iranian Registry of Clinical Trials

12 Jul 2026

Comparison of students' preference to tactile and visually determined insertion site in children inferior alveolar nerve block

Protocol summary

Summary

Anesthesia education is a comprehensive process that plays an important role in making students prepared in general dentistry. The aim of this study is to compare dental students' preference to tactile and visually determined site of insertion of children inferior alveolar nerve block. In this cross-over randomized clinical trial, students of Zahedan Dental School were selected (n=42). An inclusion criterion was choosing of practical pediatric dentistry course 1 in the first academic semester of 2015-16 at Zahedan Dental School. Having previous experience of administering inferior alveolar nerve block for children was considered as exclusion criteria. Subjects were divided into two groups using table of random numbers. During the first phase, group I were trained to find insertion point of inferior alveolar nerve block via tactile method and the remaining (group II) instructed to do inferior alveolar nerve block using visual method to distinguish insertion point. In the second phase, groups were trained using the method not previously applied. In both phases, live demonstration was conducted by one instructor and immediately after education; the learners delivered inferior alveolar nerve block using the corresponding method. Students then responded to questionnaire consisting of 5 items on a five Likert-type scale. Overall preference score were determined by calculating mean of item scores. The analyzer was blind regarding the method of education.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201506106105N4**

Registration date: **2015-06-22, 1394/04/01**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-06-22, 1394/04/01

Registrant information

Name

Nahid Ramazani

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 54 1341 6706

Email address

ramazani77@zaums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Zahedan University of Medical Sciences

Expected recruitment start date

2013-12-22, 1392/10/01

Expected recruitment end date

2014-01-06, 1392/10/16

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of students' preference to tactile and visually determined insertion site in children inferior alveolar nerve block

Public title

Needle insertion site in inferior jaw anesthesia

Purpose

Other

Inclusion/Exclusion criteria

Inclusion criteria: Students of practical pediatric dentistry course 1 in the first academic semester of 2013-14 at Zahedan Dental School
 Exclusion criteria: Having previous experience of administering inferior alveolar nerve block for children

Age
 No age limit

Gender
 Both

Phase
 2

Groups that have been masked
No information

Sample size
 Target sample size: 42

Randomization (investigator's opinion)
 Randomized

Randomization description

Blinding (investigator's opinion)
 Single blinded

Blinding description

Placebo
 Not used

Assignment
 Crossover

Other design features
 Subjects were divided into two groups using table of random numbers.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Zahedan University of Medical Sciences

Street address

Zahedan University of Medical Sciences, Daneshgah Street, Zahedan

City

Zahedan

Postal code

9817699691

Approval date

2013-09-30, 1392/07/08

Ethics committee reference number

6027

Health conditions studied

1

Description of health condition studied

Local anesthesia education

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Mean score of students' preference after performing inferior alveolar nerve block anesthesia after interventions of 1 and 2

Timepoint

immediately after anesthesia delivering

Method of measurement

by using self-reported questionnaire

Secondary outcomes

1

Description

Mean score of students' preference after performing inferior alveolar nerve block anesthesia after interventions of 1 and 2 in terms of gender

Timepoint

immediately after anesthesia delivering

Method of measurement

by using self-reported questionnaire

Intervention groups

1

Description

Intervention 1: Training how to deliver inferior alveolar nerve block anesthesia by determining insertion point via tactile method using live demonstration on a child who needs lower jaw dental treatment in groups consisting of three students each by one experienced instructor.

Category

N/A

2

Description

Intervention 2: Training how to deliver inferior alveolar nerve block anesthesia by determining insertion point via visual method using live demonstration on a child who needs lower jaw dental treatment in groups consisting of three students each by one experienced instructor.

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Zahedan University of Medical Sciences

Full name of responsible person

Nahid Ramazani

Street address

Dental School, Azadegan Avenue, Zahedan

City
Zahedan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Zahedan University of Medical Sciences

Full name of responsible person

Nahid Ramazani

Street address

Zahedan University of Medical Sciences, Daneshgah Street, Zahedan

City

Zahedan

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, Zahedan 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

Zahedan University of Medical Sciences

Full name of responsible person

Nahid Ramazani

Position

Associate Professor

Other areas of specialty/work

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Other areas of specialty/work

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Web page address

Person responsible for updating data

Contact

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