Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Comparison of "Infiltration" and "Block" Technique in Control of Extraction Pain of First Primary Mandibular Molars in 5-8 Years Old Children

Protocol summary

Summary

Pain control is of significant importance in all dentistry fields. Anesthetic is perhaps the hardest part of treatment in children. The most common method in causing anesthesia in mandibule is the inferior alveolar nerve block. As the block injection has a lasting anesthesia effect in children and also could cause traumatic injury to soft tissues a substitute injection technique is needed. This study compared the two infiltration and block techniques for extraction of mandibular primary first molars. Materials and methods: in this clinical experimental study forty children aging 5 to 8 years were chosen having the required conditions for the extraction of mandibular primary first bilateral molars. This study was conducted based on cross over desigen. The patients were received a block injection in first right molar and then received an infiltration injection on the other side at the second session respectively. The patient pain was recorded at the instance of injection and extraction on based on SEM scale.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013052012710N2**
Registration date: **2013-06-11, 1392/03/21**
Registration timing: **prospective**

Last update:
Update count: **0**

Registration date

2013-06-11, 1392/03/21

Registrant information

Name

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Name of organization / entity

Dental Iniversity of Khorasgan

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Personal

Expected recruitment start date

2013-06-22, 1392/04/01

Expected recruitment end date

2013-07-23, 1392/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of "Infiltration" and "Block" Technique in Control of Extraction Pain of First Primary Mandibular Molars in 5-8 Years Old Children

Public title

Comparison of two local anesthesia techniques for primary dentition extraction

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: children aging 5-8 years old; body health and not illness or pain; frankle + or ++ ; need to extraction of mandibular primary first bilateral molars and the inspection of minimum root length. Exclusion

criteria: not referral patient and the erosion of tooth root.

Age
From **5 years** old to **8 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **40**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Crossover

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Dental school of Islamic Azad University of khorasgan

Street address
Dental school,Islamic Azad University of khorasgan,arghavanieh boulevard,Khorasgan ,Isfahan

City
isfahan

Postal code

Approval date
2009-05-30, 1388/03/09

Ethics committee reference number
88030905501

Health conditions studied

1

Description of health condition studied
Local anesthesia

ICD-10 code
Y48.3

ICD-10 code description
Local anaesthetics

Primary outcomes

1

Description
Pain

Timepoint
After intervention

Method of measurement
Sound Eye Motor

Secondary outcomes

1

Description
Treatment acceptance

Timepoint
After intervention

Method of measurement
Visual

Intervention groups

1

Description
Use of Block Technique

Category
Treatment - Other

2

Description
Use of infiltration technique

Category
Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center
Isfahan professinal clinics

Full name of responsible person

Street address

City
Isfahan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Dental Faculty, Islamic Azad University Khorasgan isfahan

Full name of responsible person
Benyamin Modarres

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Dental school,Islamic Azad University of khorasgan,arghavanieh boulevard,Khorasgan ,Isfahan

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Isfahan

Grant name

Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Dental Faculty, Islamic Azad University Khorasgan isfahan
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

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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