

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

The effect of video games on self assessment and reaction to pain during anesthesia injection of lower alveolar nerve block in children 6 to 9 years

Protocol summary

Study aim

The effect of video games on self assessment and reaction to pain during anesthesia injection of lower alveolar nerve block in children 6 to 9 years.

Design

The present study is a one-way randomized controlled clinical trial. Using the sample size formula, 17 people in each group were calculated. It should be noted that the researcher increased the number of samples to 30 people in each group to increase the accuracy of the study. Children are selected by available sampling method. Children from 6 to 9 years old are assigned to the control group and the distraction group based on the random number table.

Settings and conduct

The present study is a single-blind randomized controlled clinical trial. The statistical population includes 60 children referred to the pediatric dentist's office. The ACC and Wong-Baker FL are measured during injection.

Participants/Inclusion and exclusion criteria

Children without previous experience with LA in dentistry
No gag reflex
Participants in the study are children 6-9 years old. Patients , who needed dental treatment in lower arch
Patients , who needed anesthesia injection of lower alveolar nerve block
The presence of parents with the child. Not having verbal and auditory disorders, absence of acute and chronic diseases
Having the ability to communicate;

Intervention groups

The vote of both groups uses a standard text to create verbal distraction. For the main injection, a 2% carpolidocaine containing 1.80000pinephrine will be used. For the intervention group, 5 minutes before the lower alveolar nerve block anesthesia injection, the distraction process begins with a video game on a mobile phone given to the subjects. . The video game used was related to SEGA's Sonic series games.

Main outcome variables

reaction to pain during anesthesia injection

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20201124049479N1**

Registration date: **2021-08-16, 1400/05/25**

Registration timing: **retrospective**

Last update: **2021-08-16, 1400/05/25**

Update count: **0**

Registration date

2021-08-16, 1400/05/25

Registrant information

Name

Azam Nahvi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 11 3326 5176

Email address

a.nahvi@mazums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-12-10, 1399/09/20

Expected recruitment end date

2021-03-10, 1399/12/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

2

Category
Behavior

Type of organization providing the funding
Academic

Recruitment centers

1

Recruitment center

Name of recruitment center
Dental Clinic of Dr. Nahvi
Full name of responsible person
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Street address
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Mazandaran University of Medical Sciences
Full name of responsible person
Majid Saidi
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Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Mazandaran University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Person responsible for general inquiries

Contact

Name of organization / entity
Mazandaran University of Medical Sciences
Full name of responsible person
Azam Nahvi
Position
Assistant professor
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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Not applicable

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Not applicable

Analytic Code

Not applicable

Data Dictionary

Not applicable