

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

The impact of pictorial story on 6-7-year-old children behavioral feedback considering intelligent quotient during dental treatment

Protocol summary

Summary

The present study evaluated the impact of pictorial story on behavioral feedback, pain perception and situational anxiety considering intelligent quotient during dental treatment in pediatric dental patients. Eighty children, aged 6-7 years, attending the Department of Paediatric Dentistry of Tabriz University of Medical Sciences took part in this study. Participants' intelligent quotient was assessed using Rayven's Progressive Matrices and their childhood anxiety related disorders was evaluated by Screen for Child Anxiety Related Disorders (SCARED) parent version scale. Subjects were randomly allocated to one of two experimental groups: listening to pictorial story about going to dentistry or listening to pictorial story about going to barber. After listening to pictorial story, subjects entered a dental setting for treatment. The subjects' pain perception, then, was assessed using Wong-Baker Fases Pain Rating Scale and situational anxiety measured by Faces version of the Modified Child Dental Anxiety Scale. Subjects' behavior was assessed using Sound Eye Motor scale during dental treatment.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138904264385N1**

Registration date: **2011-03-03, 1389/12/12**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-03-03, 1389/12/12

Registrant information

Name

Ali Vafaei

Name of organization / entity

Dental faculty

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Tabriz University of Medical Sciences

Expected recruitment start date

2010-01-21, 1388/11/01

Expected recruitment end date

2010-08-21, 1389/05/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The impact of pictorial story on 6-7-year-old children behavioral feedback considering intelligent quotient during dental treatment

Public title

The impact of pictorial story on 6-7-year-old children behavioral feedback considering intelligent quotient during dental treatment

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: age between 6 and 7 years, Existence of carious primary molars necessitating administration of an anesthetic agent, Exclusion criteria: History of unpleasant experiences in medical settings, Previous experience of dental treatment, Audiovisual impairment,

History of pain secondary to pulpitis favoring a biased context due to special pain status such as hyperalgesia or allodynia, Mental disabilities, presence of childhood anxiety related disorders, SCARED questionnaire score > 25

Age

From **6 years** old to **7 years** old

Gender

Both

Phase

1-2

Groups that have been masked

No information

Sample size

Target sample size: **80**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Triple blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Tabriz University of Medical Sciences

Street address

Tabriz Dental Faculty, Golgasht St.

City

Tabriz

Postal code

Approval date

2010-12-27, 1389/10/06

Ethics committee reference number

8950

Health conditions studied

1

Description of health condition studied

situational anxiety

ICD-10 code

F90

ICD-10 code description

Behavioural and emotional disorders with onset usually occurring

Primary outcomes

1

Description

situational anxiety

Timepoint

immediatly after dental intervention

Method of measurement

modified children dental anxiety scale

Secondary outcomes

1

Description

disruptive behavior

Timepoint

during treatment

Method of measurement

SEM scale

Intervention groups

1

Description

narrating pictorial story about going to dentist

Category

Behavior

2

Description

narrating pictorial story about going to barber

Category

Behavior

Recruitment centers

1

Recruitment center

Name of recruitment center

Tabriz dental faculty

Full name of responsible person

Dr. Naser Asl Aminabadi

Street address

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Dr. Alireza Ostad Rahimi

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Vice chancellor for Research, Tabriz University of Medical Sciences, Daneshgah Ave.

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Tabriz

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

Yes

Title of funding source

Tabriz 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, Tabriz University of Medical Sciences

Full name of responsible person

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DDS, MSc, Associate professor

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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