

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

28 May 2026

### Effect of oral analgesic on patient's reaction during pulpal exposure in children 5 to 8 years old a randomized clinical trial.

#### Protocol summary

##### Study aim

Determining the effect of oral analgesic on the patient's reaction during pulp exposure of primary teeth in five to eight yearold children.

##### Design

A randomized cross over thriple blind clinical trial of 40 patients. <https://www.randomizer.org> is used for randomization.

##### Settings and conduct

40 of the pediatric patients of the pediatric department of Mashhad dental school, in need of pulpal treatment for Both of the primary maxillary first molars are selected. In first visit placebo or medical treatment intervention (chosen based on block randomized charts in closed envelopes), is given one hour prior to the start of dental treatment. In the next visit after a wash-out period of one week, the alternative is given in the same manner. The operators follow the same treatment protocol and are calibrated together. The child's reaction at the moment of pulpal exposure is measured using FLACC in the groups and subgroups of the study. The FLACC score is a valid and reliable pain assessment tool for children.

##### Participants/Inclusion and exclusion criteria

Children aged 5 to 8 years who require pulpal treatment of maxillary D teeth, with informed parental consent.

##### Intervention groups

Intervention group 1: Acetaminophen syrup is given to the child one hour before the dental treatment on the first session and on the second session multivitamin syrup is given similarly. intervention group 2: multivitamin syrup is given to the child one hour before the dental treatment on the first session and on the second session acetaminophen syrup is given similarly.

##### Main outcome variables

pain level

#### General information

##### Reason for update

#### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20230125057218N2**  
Registration date: **2023-12-11, 1402/09/20**  
Registration timing: **prospective**

Last update: **2023-12-11, 1402/09/20**

Update count: **0**

##### Registration date

2023-12-11, 1402/09/20

##### Registrant information

###### Name

Rasoul Sahebalam

###### Name of organization / entity

###### Country

Iran (Islamic Republic of)

###### Phone

+98 51 3882 9501

###### Email address

sahebalamr@mums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2024-01-05, 1402/10/15

##### Expected recruitment end date

2024-04-03, 1403/01/15

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Effect of oral analgesic on patient's reaction during pulpal exposure in children 5 to 8 years old a randomized clinical trial.

**Public title**

Effect of analgesics during pulp therapy of deciduous teeth.

**Purpose**

Prevention

**Inclusion/Exclusion criteria****Inclusion criteria:**

All patients in need of bilateral pulp treatment of the first primary molar tooth of the upper jaw.

**Exclusion criteria:**

Patients requiring antibiotic prophylaxis for dental treatments. Patients with cooperation problems.

**Age**

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

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

- Participant
- Investigator
- Outcome assessor
- Data analyser

**Sample size**

Target sample size: **40**

More than 1 sample in each individual

Number of samples in each individual: **2**

First primary molar on the both sides of maxilla.

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

In this study permuted block technique randomizes patients between groups within a set of study participants, called a block. For this purpose, random allocation sequence of people will be used using Random Allocation Software and block size of two. In this study there are two blocks of AB and BA. A represents placebo and B represents Acetaminophen syrup. One of these blocks is selected randomly and people will be allocated to AB or BA blocks accordingly. This process will be continued until all of the samples have been allocated.

**Blinding (investigator's opinion)**

Triple blinded

**Blinding description**

Participant is unaware which of the medical intervention or placebo they used due to the similarity of the shape of the bottles and the taste of medical intervention and placebo. Evaluator is unaware whether the drug or placebo used by denoting similar bottles in A and B (A and B are written on the bottom of the bottles). Data analyst becomes unaware which data belongs to each of the groups through coded group names (A and B).

**Placebo**

Used

**Assignment**

Crossover

**Other design features****Secondary Ids**

empty

**Ethics committees****1****Ethics committee****Name of ethics committee**

Ethics committee of Mashhad University of Medical Sciences

**Street address**

Vakil Abad Blvd.

**City**

Mashhad

**Province**

Razavi Khorasan

**Postal code**

9177948959

**Approval date**

2023-03-13, 1401/12/22

**Ethics committee reference number**

IR.MUMS.DENTISTRY.REC.1401.158

**Health conditions studied****1****Description of health condition studied**

The degree of discomfort or pain

**ICD-10 code****ICD-10 code description****Primary outcomes****1****Description**

Discomfort and pain

**Timepoint**

during pulpal exposure

**Method of measurement**

Behavioral assessment scale FLACC( Face, Legs, Activity, Cry, Consolability scale)

**Secondary outcomes**

empty

**Intervention groups****1****Description**

Intervention group 1: Behsa's corp. Acetaminophen syrup (120mg acetaminophen per 5cc) with the dose of 15mg acetaminophen per 1kg is given to the child one hour before the dental treatment on the first session and on the second session Shahredaru's corp. Mester Vit multivitamin syrup is given in the same amount as acetaminophen one hour before the dental treatment.

**Category**

Prevention

**2****Description**

intervention group 2: Shahredaru's corp. Mester Vit multivitamin syrup is given in the same amount as acetaminophen one hour before the dental treatment on the first session and on the second session Behsa's corp. Acetaminophen syrup (120mg acetaminophen per 5cc) with the dose of 15mg acetaminophen per 1kg is given to the child one hour before the dental treatment.

**Category**

Prevention

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Mashhad Faculty of Dentistry

**Full name of responsible person**

Rasoul sahebalam

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Mashhad Faculty of Dentistry, Vakilabad Blvd.

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**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Mashhad University of Medical Sciences

**Full name of responsible person**

Vice President of Research and Technology of Mashhad University of Medical Sciences

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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**

Mashhad 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****Type of organization providing the funding**

Academic

**Person responsible for general inquiries****Contact****Name of organization / entity**

Mashhad University of Medical Sciences

**Full name of responsible person**

Rasoul Sahebalam

**Position**

Associate professor

**Latest degree**

Specialist

**Other areas of specialty/work**

Dentistry

**Street address**

Department of Pediatric Dentistry, Faculty of Dentistry, Vakil Abad Blvd.

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**Person responsible for scientific inquiries****Contact****Name of organization / entity**

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**Person responsible for updating data**

**Contact**

**Name of organization / entity**

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Rasoul Sahebalam

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**Sharing plan**

**Deidentified Individual Participant Data Set (IPD)**

Yes - There is a plan to make this available

**Study Protocol**

Yes - There is a plan to make this available

**Statistical Analysis Plan**

Yes - There is a plan to make this available

**Informed Consent Form**

Yes - There is a plan to make this available

**Clinical Study Report**

Yes - There is a plan to make this available

**Analytic Code**

Yes - There is a plan to make this available

**Data Dictionary**

Yes - There is a plan to make this available

**Title and more details about the data/document**

The details of the participants, such as age, sex, and the teeth studied, will be published by hiding their identities.

**When the data will become available and for how long**

Access to information will be from 2025 onwards.

**To whom data/document is available**

Researchers working in academic and scientific institutions who require this information can have access to it.

**Under which criteria data/document could be used**

Is allowed with citation.

**From where data/document is obtainable**

They can refer to Mashhad dental school's library or Mashhad University of Medical Sciences library website.

**What processes are involved for a request to access data/document**

Information will be available in thesis format.

**Comments**