

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### Effectiveness of preoperative chlorhexidine mouthwash on pain after lower posterior teeth removal : A Randomized, Double blind Clinical Trial

#### Protocol summary

##### Study aim

The purpose of this study is to investigate the influence of 0.2% (w/v) chlorhexidine gluconate mouthwash on the severity of post-extraction pain.

##### Design

A parallel, double blind, single center controlled trial sample size is 170

##### Settings and conduct

0.5 to 1 h before performing extractions, subjects will be given a dark bottle containing 15 ml of either chlorhexidine 0.2% or placebo. Patients will be asked to rinse the assigned solutions around their mouth for two minutes before spitting out. Subjects undergo the operation under local anesthesia with one 1.8-ml capsule of 2% lidocaine and 1:80 000 Epinephrine. Postoperative pain will be assessed by considering the following parameters: (1) pain will be evaluated using a visual analog scale (VAS); (2) the number of analgesic tablets ingested. Patients' postoperative pain and analgesic intake will be recorded by 4 telephone interviews 6, 12, 24 and 48 h after tooth extraction.

##### Participants/Inclusion and exclusion criteria

To be eligible for the study the patients have to be between 18 and 80 years old. patients be healthy and not on any regular medication. No patient have any of pain inducing conditions such as an aching tooth at the time of the surgery.

##### Intervention groups

chlorhexidine group (study group) placebo (control group)

##### Main outcome variables

Pain after tooth extraction

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20121223011856N2**

Registration date: **2019-04-25, 1398/02/05**

Registration timing: **registered\_while\_recruiting**

Last update: **2019-04-25, 1398/02/05**

Update count: **0**

##### Registration date

2019-04-25, 1398/02/05

##### Registrant information

###### Name

daryoosh hashemina

###### Name of organization / entity

###### Country

Iran (Islamic Republic of)

###### Phone

+98 913 325 7106

###### Email address

haghighat@dnt.mui.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2019-04-21, 1398/02/01

##### Expected recruitment end date

2019-05-22, 1398/03/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Effectiveness of preoperative chlorhexidine mouthwash on pain after lower posterior teeth removal : A Randomized, Double blind Clinical Trial

##### Public title

Effect of Chlorhexidine on postextrectio pain

**Purpose**  
Prevention

**Inclusion/Exclusion criteria**  
**Inclusion criteria:**  
patients will be between 18 and 80 years old. patients be healthy and not on any regular medication. patients will not have any of pain inducing conditions such as an aching tooth at the time of the surgery.  
**Exclusion criteria:**  
patients will be excluded if they ingested any medications including oral contraceptives, analgesics and antibiotics as of 5 days prior to the operation. smokers will be excluded

**Age**  
From **18 years** old to **80 years** old

**Gender**  
Both

**Phase**  
3

**Groups that have been masked**

- Participant
- Care provider

**Sample size**  
Target sample size: **170**

**Randomization (investigator's opinion)**  
Randomized

**Randomization description**  
Patients will be randomly allocated to a treatment group based on the flip of a coin.

**Blinding (investigator's opinion)**  
Double blinded

**Blinding description**  
0.5 to 1 h before performing extractions, subjects will be given a dark bottle containing 15 ml of either chlorhexidine 0.2% or placebo but they have no idea of the type of the solution. we will ask the clinician to perform extractions in equal situation for all patients while he has no information about the two groups.

**Placebo**  
Used

**Assignment**  
Parallel

**Other design features**

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethics committee of Isfahan University of Medical science

##### Street address

Hezarjarib st

##### City

Isfahan  
**Province**  
Isfahan  
**Postal code**  
81746-73461

#### Approval date

2018-12-29, 1397/10/08

#### Ethics committee reference number

IR.MUI.RESEARCH.REC.1397.482

## Health conditions studied

### 1

#### Description of health condition studied

postoperative pain after tooth extraction

#### ICD-10 code

#### ICD-10 code description

## Primary outcomes

### 1

#### Description

patients pain

#### Timepoint

6,12,24 and 48 hours after extractio

#### Method of measurement

patients pain will be assessed using a VAS (Visual Analog Scale) and the number of analgesic used

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group: 0.5 to 1 hours before performing extractions patient in intervention group will be given a dark bottle containing 15 ml of 0.2% chlorhexidine gluconate mouthwash (BEHSA). they will rinse the solution around their mouth for two minutes. the extractions will be done by an expert clinician. After performing extractions, patients will receive 10 pills of Acetaminophen 325 (EXIR) to be taken in case of excessive pain. patient analgesic intake and postoperative pain will be recorded by 4 telephone interviews 6, 12, 24 and 48 postoperative hours. Subjects will be asked to make VAS evaluation of their pain. Likewise subjects will be asked if they have used any prescribed analgesics and if so, the dosage will be asked.

#### Category

Prevention

### 2

#### Description

Control group: 0.5 to 1 hours before performing

extractions patient in control group will be given a dark bottle containing 15 ml of placebo mouthwash (one liter of placebo contains 1 liter of sterile normal saline (Samen company) plus one drop of natural edible colours made by colour splash company) . they will rinse the solution around their mouth for two minutes. the extractions will be done by an expert clinician. After performing extractions, patients will receive 10 pills of Acetaminophen 325 (EXIR) to be taken in case of excessive pain. patient analgesic intake and postoperative pain will be recorded by 4 telephone interviews 6, 12, 24 and 48 postoperative hours. Subjects will be asked to make VAS evaluation of their pain. Likewise subjects will be asked if they have used any prescribed analgesics and if so, the dosage will be asked.

#### Category

Prevention

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Isfahan University of Medical science

##### Full name of responsible person

Shaqayeq Ramezanzade

##### Street address

Hezarjarib st

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##### Province

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##### Postal code

81746--73461

##### Phone

+98 21 8871 4273

##### Email

shaqayeq.ramezanzade@gmail.com

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Esfahan University of Medical Sciences

##### Full name of responsible person

Abbas Haghighat

##### Street address

Hezarjarib st

##### City

isfahan

##### Province

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##### Phone

+98 21 8871 4273

##### Email

Haghighat@dnt.mui.ac.ir

#### Grant name

#### Grant code / Reference number

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

Yes

#### Title of funding source

Esfahan 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

Esfahan University of Medical Sciences

##### Full name of responsible person

Abbas Haghighat

##### Position

Associate professor

##### Latest degree

Specialist

##### Other areas of specialty/work

Dentistry

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Hezargarib st

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## Person responsible for scientific inquiries

#### Contact

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Associate professor

##### Latest degree

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## Person responsible for updating data

### Contact

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Esfahan University of Medical Sciences  
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## Sharing plan

### Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

### Justification/reason for indecision/not sharing IPD

"There is no further information"

### Study Protocol

No - There is not a plan to make this available

### Statistical Analysis Plan

No - There is not a plan to make this available

### Informed Consent Form

No - There is not a plan to make this available

### Clinical Study Report

No - There is not a plan to make this available

### Analytic Code

No - There is not a plan to make this available

### Data Dictionary

No - There is not a plan to make this available