

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

13 Jun 2026

### evaluating the effect of toothmousse on tooth sensitivity in office bleaching by laser

#### Protocol summary

##### Study aim

Investigating the effect of toothmousse and laser paste on reducing sensitivity after bleaching treatment

##### Design

This study is a Non-random assignment to intervention and control groups clinical trial study. The present study is a split mouse. In this study, 30 patients referred to a private office Who wants treatment Bleaching are used. Bleaching treatment for patients in one session by hydrogen peroxide 35% And over three times and each time for 15 minutes on all teeth The upper and lower jaws were performed. The laser device will be used as a bleaching agent activator. The laser device is placed to the left and right quadrant teeth of the maxilla and mandible But to the right of Maxilla and Mandible the light shines. But on the left side of the laser device is off. And for the upper jaw, tooth mousse dough with a special special tray For ten minutes and for the lower jaw Special tray is used without toothpaste

##### Settings and conduct

In this study, 30 patients referred to a private office will be used to treat bleaching. The information will be collected in a private office within 1 week.

##### Participants/Inclusion and exclusion criteria

.Lack of severe dental caries .Pregnant patient .Lack of gingivitis

##### Intervention groups

The laser device will be used as a bleaching agent activator. The laser device is placed to the left and right quadrant teeth of the maxilla and mandible But to the right of Maxilla and Mandible the light shines. But on the left side of the laser device is off. And for the upper jaw, tooth mousse dough with a special special tray For ten minutes and for the lower jaw Special tray is used without toothpaste After treatment, the sensitivity of the teeth for each patient In four quadrants, we examine the jaw.

##### Main outcome variables

Prevention of hypersensitivity after bleaching office

treatment Which can cause patient dissatisfaction.

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20191115045454N1**

Registration date: **2020-06-27, 1399/04/07**

Registration timing: **prospective**

Last update: **2020-06-27, 1399/04/07**

Update count: **0**

##### Registration date

2020-06-27, 1399/04/07

##### Registrant information

##### Name

mohammadmahdi sadri

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 86 4224 7126

##### Email address

drehsansadri@gmail.com

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2020-08-22, 1399/06/01

##### Expected recruitment end date

2020-08-24, 1399/06/03

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

### Scientific title

evaluating the effect of toothmousse on tooth sensitivity in office bleaching by laser

### Public title

evaluating the effect of toothmousse on tooth sensitivity in office bleaching by laser

### Purpose

Treatment

### Inclusion/Exclusion criteria

#### Inclusion criteria:

Healthy dental and periodontal conditions

#### Exclusion criteria:

Pregnant patient Severe tooth decay Inflamed gums

### Age

No age limit

### Gender

Both

### Phase

3

### Groups that have been masked

- Participant

### Sample size

Target sample size: 30

### Randomization (investigator's opinion)

Not randomized

### Randomization description

### Blinding (investigator's opinion)

Single blinded

### Blinding description

The study is designed one blinded, so that the participants (patients) initially did not know Which jaws have been given to the sensitivity paste and laser or the placebo but Performing professionals are aware.

### Placebo

Not used

### Assignment

Parallel

### Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

ARAK UNIVERSITY OF MEDICAL SCIENE

##### Street address

EMAM REZA DORM.MEDICAL UNIVERSITY,SARDASHT,ARAK

##### City

ARAK

##### Province

Markazi

##### Postal code

3919854993

### Approval date

2019-11-10, 1398/08/19

### Ethics committee reference number

IR.ARAKMU.REC.1398.221

## Health conditions studied

### 1

#### Description of health condition studied

Increased sensitivity after bleaching treatment

#### ICD-10 code

#### ICD-10 code description

## Primary outcomes

### 1

#### Description

Percentage with reduced sensitivity to average

#### Timepoint

15 minutes and 24 hours after treatment

#### Method of measurement

Visual Analogue pain Scale questionnaire

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group: 1.upper right quadrant recieved desensitizing paste and laser 2.upper left quadrant recieved just desensitizing paste 3.lower right quadrant recieved just laser

#### Category

Treatment - Drugs

### 2

#### Description

Control group: lower left quadrant which did not recieve laser and desensitizing paste. The laser device will be used as a bleaching agent activator.The laser device is placed to the left and right quadrant teeth of the maxilla and mandibleBut to the right of Maxilla and Mandible the light shines.But on the left side of the laser device is off.And for the upper jaw, tooth mousse dough with a special special tray For ten minutes and for the lower jaw Special tray is used without toothpaste After treatment, the sensitivity of the teeth for each patient In four quadrants, we examine the jaw.

#### Category

Treatment - Drugs

## Recruitment centers

## 1

### Recruitment center

**Name of recruitment center**

Dr. Salamat's private office

**Full name of responsible person**

Mohammadmahdi Sadri

**Street address**

Araz alley.Beheshti st.Arak

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**Email**

drehsansadri@gmail.com

### Sponsors / Funding sources

## 1

### Sponsor

**Name of organization / entity**

Arak University of Medical Sciences

**Full name of responsible person**

dr Jamalian

**Street address**

Arak university of medical science.Sardasht.Arak

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**Province**

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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**

Arak 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**

Arak University of Medical Sciences

**Full name of responsible person**

Afroz Nakhostin

**Position**

Consultant

**Latest degree**

Specialist

**Other areas of specialty/work**

Dentistry

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### Person responsible for scientific inquiries

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### Person responsible for updating data

**Contact****Name of organization / entity**

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**Full name of responsible person**

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**Email**

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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