

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

City

Arak

Province

Markazi

Postal code

3919854993

Phone

+98 86 4224 7126

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

City

Arak

Province

Markazi

Postal code

3919854993

Phone

+98 86 4224 7126

Email

drehsansadri@gmail.com

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

Street address

Farmandari sq.Shariati st.Arak

City

Arak

Province

Markazi

Postal code

3919854993

Phone

+98 86 4224 7126

Email

afr_na_sa@yahoo.com

Person responsible for scientific 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

Street address

Dental university.Alghadir Blvd.Arak

City

Arak

Province

Markazi

Postal code

3919854993

Phone

+98 86 4224 7126

Email

afr_na_sa@yahoo.com

Person responsible for updating data

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

Street address

Farmandari Sq,Shariati St.

City

arak

Province

Markazi

Postal code

3919854993

Phone

+98 86 4224 7126

Email

drehsansadri@gmail.com

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