Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 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 1week.

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

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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
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Arak University of Medical Sciences
Full name of responsible person
dr Jamalian
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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
Afrooz Nakhostin
Position
Consultant
Latest degree
Specialist
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Person responsible for updating data

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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