Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Comparing a desensitizing material and a one-step self-etch adhesive on cervical tooth sensitivity after periodontal surgery: A randomized clinical trial

Protocol summary

Summary

The purpose of this study is to compare the effectiveness a desensitizing material and a one-step self-etch adhesive on cervical tooth sensitivity (CTS) after periodontal surgery. This is a randomized, double-blinded, placebo-controlled and unicentered study. Patients with CTS after periodontal surgery that agree to participate in the study will be chosen. Baseline sensitivity will be recorded with a standard stimuli and Visual Analogue Scale. In each patient three posterior sextants will be randomly allocated to three study groups. Randomization will be performed by choosing a sealed envelope containing the order of treatment protocols. The treatment protocols are: 1- placebo (distilled water), 2- Gluma desensitizer and 3- Clearfil S3 bond. The tooth Sensitivity will be recorded at one day, one week and one month after treatment with the same method as the baseline. The operator and the evaluator are different persons and the evaluator will be blind to the type of treatment. The effectiveness of the different treatments in reducing tooth sensitivity will be compared between groups and between different time intervals.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201408176267N2**
Registration date: **2015-02-25, 1393/12/06**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2015-02-25, 1393/12/06

Registrant information

Name

Hila Hajizadeh

Name of organization / entity

Mashad Dental School, Department of Restorative Dntistry

Country

Iran (Islamic Republic of)

Phone

+98 51 1765 2219

Email address

hajizadehh@mums.ac.ir

Recruitment status

Recruitment complete

Funding source

Mashhad University of Medical Sciences

Expected recruitment start date

2015-02-01, 1393/11/12

Expected recruitment end date

2015-04-01, 1394/01/12

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing a desensitizing material and a one-step self-etch adhesive on cervical tooth sensitivity after periodontal surgery: A randomized clinical trial

Public title

Comparing treatment methods for cervical tooth sensitivity after periodontal surgery

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Patients with cervical tooth sensitivity

after periodontal surgery; Patients agree to participate in the study Exclusion criteria: Patients receiving professional desensitizing therapy during the previous 3 months; Use of desensitizing toothpaste in the last 6 weeks; Teeth with ICDAS 5 and 6; Root-filled teeth; Crowned teeth; Teeth with cervical restorations interfering with the evaluation; Pregnant or lactating women

Age
From **20 years** old to **65 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **90**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Mashhad University of Medical Sciences

Street address
7th Sanabad, Sadi Square, Mashhad

City
Mashhad

Postal code
91387

Approval date
2014-12-29, 1393/10/08

Ethics committee reference number
930240

Health conditions studied

1

Description of health condition studied
Dentin sensitivity after periodontal surgery

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description
Dentin sensitivity

Timepoint
Immediately before treatment and one day,one week and one month after treatment

Method of measurement
visual analoge scale

Secondary outcomes

empty

Intervention groups

1

Description
Using Gluma Desensitizer

Category
Treatment - Drugs

2

Description
Using one-step self-etch adhesive (Clearfil S3 Bond)

Category
Treatment - Drugs

3

Description
Using distilled watter

Category
Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center
School of Dentistry, Mashhad University of Medical Sciences

Full name of responsible person
Dr.Hila Hajizadeh

Street address

City
Mashhad

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Mashhad University of Medical Sciences

Full name of responsible person
Dr.hila hajizadeh

Street address
School of Dentistry, Mashhad University of Medical Sciences
City
Mashhad
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
empty
Domestic or foreign origin
empty
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
empty

Person responsible for general inquiries

Contact
Name of organization / entity
School of Dentistry, Mashhad University of Medical Sciences
Full name of responsible person
Dr.Atefeh Nemati
Position
DDS/DMD
Other areas of specialty/work
Street address
No54, 8th Pastor St., Ahmad Abad Blvd.
City
Mashhad
Postal code
Phone
+98 51 3844 2737
Fax
Email
atefeh.nemati@yahoo.com
Web page address

Person responsible for scientific inquiries

Contact
Name of organization / entity
School of Dentistry, Mashhad University of Medical Sciences
Full name of responsible person
Dr.Hila Hajizadeh
Position
Associated professor
Other areas of specialty/work
Street address
Department of Operative Dentistry, School of Dentistry
City
Mashhad
Postal code
Phone
+98 51 3883 2300
Fax
Email
hajizadehh@mums.ac.ir
Web page address

Person responsible for updating data

Contact
Name of organization / entity
Full name of responsible person
Dr.Atefeh Nemati
Position
DDS/DMD
Other areas of specialty/work
Street address
City
Mashhad
Postal code
Phone
00
Fax
Email
atefeh.nemati@yahoo.com
Web page address

Sharing plan

Deidentified Individual Participant Data Set (IPD)
empty
Study Protocol
empty
Statistical Analysis Plan
empty
Informed Consent Form
empty
Clinical Study Report
empty
Analytic Code
empty
Data Dictionary
empty