

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 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

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##### 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

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DDS/DMD

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School of Dentistry, Mashhad University of Medical Sciences

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Dr.Hila Hajizadeh

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Associated professor

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**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*