

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

09 Jun 2026

### Comparison the efficacy of Sensikin gel and Sensodyne toothpaste on dental hypersensitivity in patients with dental hypersensitivity.

#### Protocol summary

##### Summary

This randomized single blind parallel clinical trial compares dental hypersensitivity between an experimental group receiving Sensikin gel and a control group receiving Sensodyne toothpaste. A total of 74 participants (males and females; age range 20 to 50 years) were included in the present study. The volunteers had a history of dental hypersensitivity in at least two teeth with a moderate to severe pain measured at baseline. Participants were randomly assigned into two groups, one receiving a Sensikin gel containing Potassium Nitrate 10% and the other receiving a Sensodyne toothpaste containing Strontium Chloride. dental hypersensitivity measured at the end of first, second, third and fourth week of treatment.

#### General information

##### Acronym

Sensikin and dental hypersensitivity

##### IRCT registration information

IRCT registration number: **IRCT201202149002N1**

Registration date: **2012-08-23, 1391/06/02**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2012-08-23, 1391/06/02

##### Registrant information

###### Name

Sara Soheilifar

###### Name of organization / entity

Hamadan University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 81 1824 7998

###### Email address

sara.soheilifar@umsha.ac.ir

###### Recruitment status

**Recruitment complete**

###### Funding source

Dental faculty of Hamadan University of Medical Sciences

###### Expected recruitment start date

2012-01-02, 1390/10/12

###### Expected recruitment end date

2012-04-02, 1391/01/14

###### Actual recruitment start date

empty

###### Actual recruitment end date

empty

###### Trial completion date

empty

###### Scientific title

Comparison the efficacy of Sensikin gel and Sensodyne toothpaste on dental hypersensitivity in patients with dental hypersensitivity.

###### Public title

Evaluation the effect of Sensikin on dental hypersensitivity

###### Purpose

Treatment

###### Inclusion/Exclusion criteria

Inclusion criteria: Dental hypersensitivity more than one month; Vital pulp; No use of any other treatments.

Exclusion criteria: Restored teeth; presence of cracks or caries or restored crown

###### Age

From **20 years** old to **50 years** old

###### Gender

Both

###### Phase

N/A

### Groups that have been masked

No information

### Sample size

Target sample size: 74

### Randomization (investigator's opinion)

Randomized

### Randomization description

### Blinding (investigator's opinion)

Single blinded

### Blinding description

### Placebo

Used

### Assignment

Parallel

### Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Hamadan University of Medical Sciences

##### Street address

Opposite of Luna park, Shahid Fahmideh St, Hamadan

##### City

Hamadan

##### Postal code

#### Approval date

2012-01-09, 1390/10/19

#### Ethics committee reference number

3659/9/35/16/د/پ

## Health conditions studied

### 1

#### Description of health condition studied

Dental Hypersensitivity

#### ICD-10 code

K03.8

#### ICD-10 code description

Other specified diseases of hard tissues of teeth

## Primary outcomes

### 1

#### Description

Dental Hypesensitivity

#### Timepoint

Before treatment, first week, second week , third week and fourth week of treatment

#### Method of measurement

Visual Analogue Scale

## Secondary outcomes

### 1

#### Description

N/A

#### Timepoint

N/A

#### Method of measurement

N/A

## Intervention groups

### 1

#### Description

Sensodyne toothpaste, two times a day for four weeks apply with tooth brush by each participant.

#### Category

Treatment - Drugs

### 2

#### Description

Sensikin gel, 1 mg, once a week for four weeks apply to teeth by a dentist.

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Dental faculty of Hamadan University of Medical Sciences

##### Full name of responsible person

Rozita Jalali

##### Street address

Opposite of Luna park, Shahid Fahmideh St., Hamadan

##### City

Hamadan

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Medical faculty of Hamadan University of Medical Sciences

##### Full name of responsible person

Maryam Asgari

##### Street address

Opposite of Luna park, Shahid Fahmideh St., Hamadan University of Medical Sciences, Medical faculty

##### City

Hamadan

**Grant name**  
**Grant code / Reference number**  
**Is the source of funding the same sponsor organization/entity?**  
Yes  
**Title of funding source**  
Medical faculty of Hamadan 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**  
Dental faculty of Hamadan University of Medical Sciences  
**Full name of responsible person**  
Rozita Jalali  
**Position**  
Student of dentistry  
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### Person responsible for scientific

### inquiries

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Dental faculty of Hamadan University of Medical Sciences  
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Assistant professor  
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### Person responsible for updating data

**Contact**  
**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*