Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 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 forth 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

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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/پ/د

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

Befor treatment, first week, second week , third week and forth 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
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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