Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

A Comparison Study of Effect of Casein Phosphopeptide Amorphous Calcium Phosphate and Flouride Varnish on Dentinal Hypersensitivity

Protocol summary

Summary

Aim of the study: The aim of this study was to compare the effect of casein phosphopeptide amorphous calcium phosphate paste and fluoride varnish on dentin hypersensitivity. Studied population: Inclusion criteria: patient with at least two sensitive teeth in each quadrant; teeth with at least 2mm dentin loss; Exclusion: caries; erosion; attrition; cracked tooth; restored tooth Studied population: patients referred to operative and periodontics departments of Khorasghan dental school which complained of dentin hypersensitivity in age between 20 – 50 years were examined. Sample Size:three groups with 10 patients(totally 30 patients) Study design: In this clinical trial study with parallel design the patients were examined in three groups as followed: in two groups patients treated with Fluoride varnish and casein phosphopeptide amorphous calcium phosphate according to manufacturer instruction. No treatment was done in control group. Dentin hypersensitivity measured at the baseline and one week, two weeks, four weeks and eight weeks after treatment. Visual analog score used for dentin hypersensitivity measurement. Studied intervention and time: fluoride varnish and casein phosphopeptide amorphous calcium phosphate were used three times in a month. Primary outcome: decreased dentin hypersensitivity following using two agents was observed.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201202149008N1**
Registration date: **2013-11-08, 1392/08/17**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2013-11-08, 1392/08/17

Registrant information

Name
Leila Pishevar
Name of organization / entity
Islamic Azad University (Khorasgan branch)
Country
Iran (Islamic Republic of)
Phone
+98 31 1535 4053
Email address
l.pishevar@khuisf.ac.ir

Recruitment status

Recruitment complete

Funding source

Islamic Azad university, Khorasgan branch(Esfahan), Dental school

Expected recruitment start date

2011-10-10, 1390/07/18

Expected recruitment end date

2012-10-10, 1391/07/19

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A Comparison Study of Effect of Casein Phosphopeptide Amorphous Calcium Phosphate and Flouride Varnish on Dentinal Hypersensitivity

Public title

A comparison study between the effecct of two desensitizing agenst on dental hypersensitivity

Purpose

Treatment

Inclusion/Exclusion criteria
Inclusion criteria: patient with at least two sensitive tooth in each quadran; at least 2 mm dentin loss Exclusion criteria: teeth require any restorative regimen; teeth with erosion;teeth with attrition; teeth with caries; cracked teeth,teeth with restoration; pulpitis
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: **30**
Randomization (investigator's opinion)
Not randomized
Randomization description
Blinding (investigator's opinion)
Not blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Islamic Azad university khorasgan branch(Esfahan) dental school
Street address
Arghavanieh, Blv Danrshgah, Islamic Azad university khorasghan bransh, Esfahan
City
Esfahan
Postal code
Approval date
2010-09-23, 1389/07/01
Ethics committee reference number
23810201892047

2

Ethics committee
Name of ethics committee
Islamic Azad University, Khorasgan branch
Street address
Arghavanieh, Blv Danesshgah, Islamic Azad university , Khorasgan branch
City
Esfahan
Postal code
Approval date
2010-08-20, 1389/05/29
Ethics committee reference number
23810201892047

Health conditions studied

1

Description of health condition studied
dentinal hypersensitivity
ICD-10 code
k03.8
ICD-10 code description
Sensitive dentine

Primary outcomes

1

Description
dentinal hypersensitivity
Timepoint
before intervention, 1week, 4 weeks, 8 weeks after intervention
Method of measurement
visual analog scale

Secondary outcomes

1

Description
dntinal hypersensitivity
Timepoint
dentinal hypersensitivity
Method of measurement
visual analog scale

Intervention groups

1

Description
Intervention group 1: Fluoride varnish dosage: 3 minutes 3 times
Category
Treatment - Drugs

2

Description
Intervention group 2: casein phosphopeptide paste, dosage: 3 minutes 3 times
Category
Treatment - Drugs

3

Description
control group: without intervention

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Islamic Azad university
Full name of responsible person
Leila Pishevar
Street address
Arghavanieh, Blv Daneshgah, Islamic Azad university, Khorasgan branch, Esfahan
City
Esfahan

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Research Vice- Chancellor of Islamic Azad University Khorasgan Branch
Full name of responsible person
Esfahanian Vahid
Street address
Arghavanieh, BLV daneshgah, Islamic Azad University, Esfahan
City
Esfahan
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Research Vice- Chancellor of Islamic Azad University Khorasgan Branch
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
Islamic Azad university, khorasgan branch
Full name of responsible person
Leila Pishevar
Position
MSc, assistant professor
Other areas of specialty/work
Street address
Arghavanieh, BLV Daneshgah, Islamic Azad university, Khorasgan branch, Esfahan
City
Esfahan
Postal code
Phone
+98 31 1535 4053
Fax
Email
lpishevar@hotmail.com
Web page address

Person responsible for scientific inquiries

Contact
Name of organization / entity
Islamic Azad university, Khirasgan branch
Full name of responsible person
Leila Pishevar
Position
MSc/ assistant professor
Other areas of specialty/work
Street address
Arghavanieh, BLV Daneshgah, Islamic Azad university Khorasgan branch, Esfahan
City
Esfahan
Postal code
Phone
+98 31 1535 4053
Fax
Email
lpishevar@hotmail.com
Web page address

Person responsible for updating data

Contact
Name of organization / entity
Islamic Azad university, Khorasgan branch
Full name of responsible person
Leila Pishevar
Position
MSc/ assistant professor
Other areas of specialty/work
Street address
Arghavanieh, BLV Daneshgah, Islamic Azad university Khorasgan branch, Esfahan
City
Esfahan
Postal code
Phone
+98 31 1535 4053
Fax
Email
lpishevar@hotmail.coml.pishevar@khuisf.ac.ir
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