

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Effect of using and avoiding to use vitamin C on defense system of saliva anti oxidant of periodontal patients

Protocol summary

Summary

The present study aimed to investigate the effect of vitamin C on defense system of saliva anti oxidant of patients with periodontal disease. Samples were chosen among people attending dentistry collage of Kermanshah, who were recognized for periodontal disease. It was a double blind clinical study. 32 patients with periodontal were selected and were divided to control and experiment groups. Samples of experimental group received 500 mg of oral vitamin C power daily for three weeks. Unstimulated saliva of patients was tested in the morning and patients were asked to brush their teeth and avoid eating and drinking at least 90 minutes before saliva test on the test day. Samples were sitting while saliva gathering process. After three weeks, saliva samples were again gathered from patients and total anti oxidant capacity was measured using Randox kit and the results were recorded. Samples of control group received water with permissible oral essence and color. Inclusion: written satisfaction by 20 patients; having at least teeth; propping depth deeper than 5 mm and clinical attachment level less than 3 mm at least 30 % of sites; bleeding while propping; chronic gum inflammation; systematically healthy patients; patient who had not received propping treatment during last 6 months. Exclusion: patients using antibiotics or anti inflammatory medicine; having systematic disease history; pregnant and breast feeding women; those who use vitamin supplements; those who use mouthwash; those who smoke.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014111714333N24**

Registration date: **2014-12-23, 1393/10/02**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-12-23, 1393/10/02

Registrant information

Name

Feizollah Foroughi

Name of organization / entity

kermanshah University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Recruitment status

Recruitment complete

Funding source

Kermanshah University of Medical Sciences

Expected recruitment start date

2014-12-06, 1393/09/15

Expected recruitment end date

2015-01-05, 1393/10/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of using and avoiding to use vitamin C on defense system of saliva anti oxidant of periodontal patients

Public title

Study the effect of vitamin C on saliva antioxidant defense system of patients with periodontal disease

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion: written satisfaction by 20 patients; having at least teeth; propping depth deeper than 5 mm and clinical attachment level less than 3 mm at least 30 % of sites; bleeding while propping; chronic gum inflammation; systematically healthy patients; patient who had not received propping treatment during last 6 months. Exclusion: patients using antibiotics or anti inflammatory medicine; having systematic disease history; pregnant and breast feeding women; those who use vitamin supplements; those who use mouthwash; those who smoke.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 32

Randomization (investigator's opinion)

N/A

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

Kermanshah University of Medical Sciences

Street address

Building No.2, Shahid Beheshti, Vice Chancellor for Research Affairs, Kermanshah University of Medical Sciences

City

Kermanshah

Postal code

Approval date

2014-12-17, 1393/09/26

Ethics committee reference number

420/7/40619/ب

Health conditions studied

1

Description of health condition studied

Disease of salivary gland, unspecified

ICD-10 code

k11.9

ICD-10 code description

Disease of salivary gland, unspecified

Primary outcomes

1

Description

Saliva anti oxidant

Timepoint

At the beginning of study and three weeks after that

Method of measurement

Using Randox kit

Secondary outcomes

empty

Intervention groups

1

Description

Samples of experimental group received 500 mg of oral vitamin C power daily for three weeks. Unstimulated saliva of patients was tested in the morning and patients were asked to brush their teeth and avoid eating and drinking at least 90 minutes before saliva test on the test day. Samples were sitting while saliva gathering process. After three weeks, saliva samples were again gathered from patients and total anti oxidant capacity was measured using Randox kit and the results were recorded.

Category

Treatment - Drugs

2

Description

Samples of control group received 500 mg of water with permissible oral essence and color for three weeks. Unstimulated saliva of patients was first gathered in the morning and patients were asked to brush their teeth and avoid eating and drinking at least 90 minutes before saliva test on the test day. Samples were sitting while saliva gathering process. After three weeks, saliva samples were again gathered from patients and total anti oxidant capacity was measured using Randox kit and the results were recorded.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Faculty of Dentistry

Full name of responsible person

Dr. Ana Behvand

Street address

Faculty of Dentistry, Gisha Building,Zare Alley,
Shariati streets

City

Kermanshah

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for Research Affairs, Kermanshah
University of Medical Sciences

Full name of responsible person

Koroush Hamzehee

Street address

Building No.2, Shahid Beheshti, Vice Chancellor for
Research Affairs, Kermanshah University of Medical
Sciences

City

Kermanshah

Grant name

Grant code / Reference number

**Is the source of funding the same sponsor
organization/entity?**

Yes

Title of funding source

Vice Chancellor for Research Affairs, Kermanshah
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

**Person responsible for scientific
inquiries**

Contact

Name of organization / entity

Kermanshah University of Medical Sciences

Full name of responsible person

Dr. Mahmood Rahmani

Position

PhD oral diseases

Other areas of specialty/work

Street address

Faculty of Dentistry, Gisha Building,Zare Alley,
Shariati streets

City

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Postal code

Phone

00

Fax

Email

mahdental@yahoo.com

Web page address

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