

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Evaluation of Anti-inflammatory Efficacy of Cinnamaldehyde Mouthwash Comparing with Chlorhexidine Gluconate Mouthwash in Patients with Gingivitis

Protocol summary

Summary

In this study the effect of cinnamaldehyde mouthwash 1% on patients with gingivitis was examined. 105 patients with gingivitis who had been referred to the department of oral medicine in Sari Faculty of Dentistry in summer of 1396 were divided into three groups. One group received treatment with licorice mouthwash, the other group received chlorhexidine mouthwash and the last group received placebo. In each group the mouthwash should be used twice a day for about 5 weeks. After three weeks first examination is run to check the GI and PI. Two weeks after the second examination, in the third checking, the final PI and GI are written down. Finally the GI and PI are compared in the three groups

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017082233722N3**

Registration date: **2017-08-31, 1396/06/09**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-08-31, 1396/06/09

Registrant information

Name

Tahereh Molania

Name of organization / entity

Mazandaran University of Medical Sciences

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Mazandaran University of Medical Sciences

Expected recruitment start date

2017-06-22, 1396/04/01

Expected recruitment end date

2017-09-06, 1396/06/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of Anti-inflammatory Efficacy of Cinnamaldehyde Mouthwash Comparing with Chlorhexidine Gluconate Mouthwash in Patients with Gingivitis

Public title

Evaluation of Anti-inflammatory Efficacy of Cinnamaldehyde Mouthwash Comparing with Chlorhexidine Gluconate Mouthwash in Patients with Gingivitis

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Being a non-smoker; absence of systemic diseases and pregnancy; having at least 24 teeth excluding third molar; absence of active caries lesions; no use of antibiotics within the previous three months; suffering gingivitis with a probing depth of less than 4mm; positive BOP(Bleeding on probing) and finally

ensuring patient cooperation.

Age

From **20 years** old to **40 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **105**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

The number of sampling is chosen by convenient sampling. After that, by random sampling, one group of samples are located in the first intervention group, another group of samples in the second intervention group, and some in the control group. Each individual is assigned a number and then randomly chosen so the objectivity of the research is reached. Blinding for the study subjects (patients) and those who have run the study (researchers) have been carried out.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

The ethics committee of Mazandaran University of Medical Sciences

Street address

Vice chancellor for research, Mazandaran university of medical science, The martyr Motahhari square, Street teacher

City

Sari

Postal code

Approval date

2017-07-03, 1396/04/12

Ethics committee reference number

IR.MAZUMS.REC.96.2989

Health conditions studied

1

Description of health condition studied

Gingivitis

ICD-10 code

K05.0

ICD-10 code description

Necrotizing ulcerative stomatitis

Primary outcomes

1

Description

Gingival index

Timepoint

Before intervention, three weeks after intervention, five weeks after the beginning of intervention

Method of measurement

Periodontal probe

2

Description

Plaque index

Timepoint

Before intervention, three weeks after intervention, five weeks after the beginning of intervention

Method of measurement

Periodontal probe

Secondary outcomes

empty

Intervention groups

1

Description

The control group use the mouthwash without medicine (placebo) twice a day (in the morning and in the afternoon) each time 10 milliliter (10 milliliter about two table spoon). They should use it after brushing and flossing the teeth. After using the mouthwash they should refrain from eating and drinking for about one hour. It should be used for 5 weeks .

Category

Treatment - Drugs

2

Description

The first intervention group use the cinnamaldehyde mouthwash 1% twice a day (in the morning and in the afternoon) each time 10 milliliter (10 milliliter about two table spoon). They should use it after brushing and flossing the teeth. After using the mouthwash they should refrain from eating and drinking for about one hour. It should be used for 5 weeks .

Category

Treatment - Drugs

Description

The second intervention group use the chlorhexidine mouthwash 0.2% twice a day (in the morning and in the afternoon) each time 10 milliliter (10 milliliter about two table spoon). They should use it after brushing and flossing the teeth. After using the mouthwash they should refrain from eating and drinking for about one hour. It should be used for 5 weeks .

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Dental Clinic, Mazandaran University of Medical Sciences

Full name of responsible person

Dr Tahereh Molania

Street address

Dental clinic, Khazar Blvd, Khazar square Sari Mazandaran

City

Sari

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Vice chancellor for research, Mazandaran University of Medical Sciences

Full name of responsible person

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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, Mazandaran 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**

Mazandaran University of Medical Sciences

Full name of responsible person

Dr Maedeh Salehi

Position

Professor / Associate Professor, School of Dentistry

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Full name of responsible person

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Position

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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