

Clinical Trial Protocol

Iranian Registry of Clinical Trials

20 Sep 2026

Anti-Inflammatory effect of licorice mouthwash in comparison with chlorhexidine in the population with gingivitis.

Protocol summary

Summary

In this study the effect of licorice mouthwash 2% on patients with gingivitis was examined. Seventy five patients with gingivitis who had been referred to the department of oral medicine in Sari Faculty of Dentistry in spring 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: **IRCT2017043033722N1**

Registration date: **2017-06-05, 1396/03/15**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-06-05, 1396/03/15

Registrant information

Name

Tahereh Molania

Name of organization / entity

Mazandaran University of Medical Sciences

Country

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Email address

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Recruitment status

Recruitment complete

Funding source

Mazandaran University of Medical Sciences

Expected recruitment start date

2017-05-06, 1396/02/16

Expected recruitment end date

2017-07-07, 1396/04/16

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Anti-Inflammatory effect of licorice mouthwash in comparison with chlorhexidine in the population with gingivitis.

Public title

Anti-Inflammatory effect of licorice mouthwash in comparison with chlorhexidine in the population 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 sizeTarget sample size: **75****Randomization (investigator's opinion)**

Randomized

Randomization description**Blinding (investigator's opinion)**

Double 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**

2017-03-05, 1395/12/15

Ethics committee reference number

IR.MAZUMS.REC.95.2884

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 licorice mouthwash 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

3**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

Ahmad Ali Enayati

Street address

Vice chancellor for research, The martyr Motahhari square, Street teacher

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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

Other areas of specialty/work**Street address**

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Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

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Mazandaran University of Medical Sciences

Full name of responsible person

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Position

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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