Clinical effect of hyssopus mouthwash on periodontal indexes compare with chlorhexidine; A Double-Blind, Randomized Clinical Trial

Protocol summary

Study aim
Clinical effect of Hyssop Herbal mouth wash on periodontal indexes compare with chlorhexidine

Design
The present study is a double-blind randomized clinical trial (simple randomization). This clinical trial has a control group (treated with chlorhexidine), an intervention group (treated with hyssop mouthwash) and a placebo on sixty patients.

Settings and conduct
The present study is a double-blind randomized clinical trial (simple random sampling) that is performed on patients referred to Sari Dental School in 1399. Treatment steps were explained to all patients. Clinical parameters including pigment index, plaque index, gingival index and bleeding during probe on Ramfjord teeth, which include central teeth and first left upper and lower right premolars and first right upper and lower left molars are determined. Three of these indicators will be re-evaluated to evaluate the effects of treatment. Patients are instructed to gargle 5 ml of mouthwash twice a day for 30 seconds and use these mouthwashes for two weeks.

Participants/Inclusion and exclusion criteria
Inclusion criteria: Having 12 incisors; mild to moderate gingivitis and absence of pocket and loss of attachment; absence of color in the tooth and the lack of allergy to chlorhexidine and Origanum vulgare; non-use of intraoral removable prosthesis; history of antibiotic use 3 last month and no smoking. Exclusion criteria: Pregnancy, breastfeeding, underlying diseases such as cancer, autoimmune diseases, diabetes, etc.

Intervention groups
The intervention group includes the group treated with Hyssop Herbal mouthwash. Intervention group 2 includes the group treated with chlorhexidine mouthwash. The control group includes the placebo group.

Main outcome variables
Dental plaque; gingivitis; Bleeding gums; Staining of teeth

General information

Reason for update
Acronym
IRCT registration information
IRCT registration number: IRCT20161205031242N2
Registration date: 2020-12-01, 1399/09/11
Registration timing: registered_while_recruiting

Last update: 2020-12-01, 1399/09/11
Update count: 0
Registration date
2020-12-01, 1399/09/11

Registrant information
Name
Emran Habibi
Name of organization / entity
Mazandaran University of Medical sciences
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Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2020-10-31, 1399/08/10
Expected recruitment end date
2021-03-20, 1399/12/30
Actual recruitment start date
empty
Actual recruitment end date
empty
Scientific title
Clinical effect of hyssopus mouthwash on periodontal indexes compare with chlorhexidine; A Double-Blind, Randomized Clinical Trial

Purpose
Treatment

Inclusion/Exclusion criteria

Inclusion criteria:
- Having 12 incisors mild to moderate gingivitis and absence of pocket and loss of attachment absence of color in the tooth and the lack of allergy to chlorhexidine and Hyssop non-use of intraoral removable prosthesis history of antibiotic use 3 last month no smoking

Exclusion criteria:
- pregnancy Breastfeeding Underlying diseases such as cancer, autoimmune disease, diabetes, etc.

Age
From 20 years old to 50 years old

Gender
Both

Phase
N/A

Groups that have been masked
- Participant
- Care provider

Sample size
Target sample size: 60

Randomization (investigator's opinion)
Randomized

Randomization description
In this study, randomization was performed by simple randomization. sixty codes were defined with the help of a random table and mouthwashes were coded and mouthwashes (hyssopus, chlorhexidine and placebo) in one-shaped, dark-colored and sealed bottles according to the codes defined in Random is provided to patients.

Blinding (investigator's opinion)
Double blinded

Blinding description
In this study, two groups of patients receiving mouthwash (placebo, chlorhexidine and hyssopus) and a clinical caregiver (dentist) were kept blind in the study groups. People will not know how to dispense mouthwash, and mouthwashes are available to patients in dark bottles with the same color, shape, and sealed according to randomly defined codes. The tools and ingredients needed to make the placebo will be exactly the same as the hyssopus mouthwash, except that the only active ingredient in the extract is removed from the placebo mouthwash.

Placebo
Used

Assignment
Parallel

Other design features

Secondary IDs
empty

Ethics committees

1

Ethics committee
Name of ethics committee
Mazandaran University of Medical Sceinces
Street address
Moalem Ave.
City
Sari
Province
Mazandaran
Postal code
4847193698

Approval date
2020-09-01, 1399/06/11

Ethics committee reference number
IR.MAZUMS.REC.1399.568

Health conditions studied

1

Description of health condition studied
Gingivitis

ICD-10 code
K05

ICD-10 code description
Gingivitis and periodontal diseases

Primary outcomes

1

Description
Gingival inflammation

Timepoint
before and after treatment

Method of measurement
Observation

Secondary outcomes

1

Description
Oral allergy

Timepoint
During the study, and then

Method of measurement
Observation

2

Description
Staining of teeth

Timepoint
before and after treatment

Method of measurement
Observation

3
Description
Gingival bleeding

Timepoint
before and after treatment

Method of measurement
Observation

4
Description
The clinical characteristics of plaque

Timepoint
before and after treatment

Method of measurement
Observation

Intervention groups

1
Description
Intervention group: 10 ml Hyssop Herbal mouthwash 2 times a day for 2 weeks

Category
Treatment - Drugs

2
Description
Intervention group: 10 ml Chlorhexidine mouthwash 2 times a day for 2 weeks

Category
Treatment - Drugs

3
Description
control group: 10 ml placebo mouthwash 2 times a day for 2 weeks

Category
Placebo

Recruitment centers

1
Recruitment center
Name of recruitment center
Specialized Private Dental clinic

Full name of responsible person
Hadis Ehsani

Street address
Sari city, Khazar boulevard, former medical school, Toobi specialized and sub-specialized clinic

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Sponsors / Funding sources

1
Sponsor

Name of organization / entity
Mazandaran University of Medical Sciences

Full name of responsible person
Ahmad Ali Enayati

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Mazandaran University of Medical Sciences, Moalen Avenue

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Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?
No

Title of funding source
Mazandaran University of Medical Sciences

Proportion provided by this source
100

Public or private sector
Public

Domestic or foreign origin
Domestic

Category of foreign source of funding
empty

Country of origin

Type of organization providing the funding
Academic

Person responsible for general inquiries

Contact

Name of organization / entity
Mazandaran University of Medical Sciences

Full name of responsible person
Emran Habibi

Position
Ph.D. Assistant Professor

Latest degree
Ph.D.

Other areas of specialty/work
Person responsible for scientific inquiries

Contact
Name of organization / entity
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Full name of responsible person
Emran Habibi
Position
Ph.D
Latest degree
Ph.D.
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Sharing plan
Deidentified Individual Participant Data Set (IPD)
Undecided - It is not yet known if there will be a plan to make this available
Study Protocol
Undecided - It is not yet known if there will be a plan to make this available
Statistical Analysis Plan
Undecided - It is not yet known if there will be a plan to make this available
Informed Consent Form
Undecided - It is not yet known if there will be a plan to make this available
Clinical Study Report
Undecided - It is not yet known if there will be a plan to make this available
Analytic Code
Undecided - It is not yet known if there will be a plan to make this available
Data Dictionary
Undecided - It is not yet known if there will be a plan to make this available