Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Evaluation of the effect of Frankincense on moderate plaque induces gingivitis

Protocol summary

Summary
The objective of this research was clinical assessment of frankincense chewing gum efficacy on plaque–induced gingivitis. This randomized double blind plaque placebo controlled study was done in 74 high school students with moderate plaque induced gingivitis. The patients chewed frankincense (extract or powder) contained or control chewing gum 3 times daily. Gingival index, plaque index, bleeding index, pocket probe depth index in ramfjord teeth were measured at baseline and on the 7th and 14th days after the study.

General information

Acronym

IRCT registration information
IRCT registration number: **IRCT138901192547N1**
Registration date: **2010-05-15, 1389/02/25**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date
2010-05-15, 1389/02/25

Registrant information
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Babol University of Medical Sciences (BUMS)
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Recruitment status
Recruitment complete

Funding source
Research deputy, Babol University of Medical Sciences

Expected recruitment start date
2004-04-03, 1383/01/15
Expected recruitment end date
2006-03-06, 1384/12/15
Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Evaluation of the effect of Frankincense on moderate plaque induces gingivitis

Public title
Effect of Frankincense on gingival inflammation
Purpose
Treatment
Inclusion/Exclusion criteria
Inclusion criteria: female high school student with moderate plaque induces gingivitis Exclusion criteria: presence of any systemic diseases, consumption of any drug with effect on periodontium or any antibiotics within last month, severe maloccusion, mal oral habits, periodontal surgery or scaling within past 6 months, having large filling or severe subgingival caries in ramjford teeth
Age
From **15 years** old to **18 years** old
Gender
Female

Phase
1
Groups that have been masked
No information
Sample size
Target sample size: **74**

Randomization (investigator's opinion)
Randomized
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
Babol University of Medical Sciences
Street address
Ganj Afrooz ave.
City
Babol
Postal code
Approval date
empty
Ethics committee reference number
2453

Health conditions studied

1

Description of health condition studied
Chronic gingivitis
ICD-10 code
K05.1
ICD-10 code description
Chronic gingivitis

Primary outcomes

1

Description
Gingival index
Timepoint
days 0, 7, 14
Method of measurement
Loe & sillness index

Secondary outcomes

1

Description
plaque index
Timepoint
days 0, 7, 14
Method of measurement
Loe & Silness

2

Description
bleeding index
Timepoint
Baseline and on the 7th and 14th days after the begining of the study
Method of measurement
Cowel Index

3

Description
pockt probe depth index
Timepoint
Baseline and on the 7th and 14th days after the begining of the study
Method of measurement
WHO probe

Intervention groups

1

Description
gum contains either powder or extract of frankicense 3 times daily
Category
Treatment - Drugs

2

Description
control chewing gum (without frankincense) 3 times daily
Category
Placebo

Recruitment centers

1

Recruitment center
Name of recruitment center
Periodontology ward, Babol university of Medical Scicences
Full name of responsible person
Street address
City
Babol

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Research deputy of Babol University of Medcial

Sciences

Full name of responsible person
Dr. Vahid Abbasi

Street address
Ganj Afrooz Ave.Dentistry school

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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
Research deputy of Babol University of Medcial 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
Babol university of Medcial Sciences

Full name of responsible person
Arash Poorsattar Bejeh Mir

Position
Dentistry student

Other areas of specialty/work

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Assistant professor, Implantologist & periodontologist

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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