

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 May 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

Name

Arash Poorsattar

Name of organization / entity

Babol University of Medical Sciences (BUMS)

Country

Iran (Islamic Republic of)

Phone

+98 15 1321 6283

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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 malocclusion, mal oral habits, periodontal surgery or scaling within past 6 months, having large filling or severe subgingival caries in ramfjord 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 beginning of the study

Method of measurement

Cowel Index

3

Description

pocket probe depth index

Timepoint

Baseline and on the 7th and 14th days after the beginning of the study

Method of measurement

WHO probe

Intervention groups

1

Description

gum contains either powder or extract of frankincense 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 Sciences

Full name of responsible person

Street address

City

Babol

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Research deputy of Babol University of Medical

Sciences

Full name of responsible person

Dr. Vahid Abbasi

Street address

Ganj Afrooz Ave.Dentistry school

City

Babol

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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Contact

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Other areas of specialty/work

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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