

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Evaluation of the effect a herbal lozenge tablet containing ginger, green tea, hollyhock, and mallow and on saliva secretion by measuring the difference in the weight of secreted saliva before and after taking the pill; in healthy volunteers.

Protocol summary

Study aim

Sensory evaluation of a herbal lozenge containing green tea, ginger, marshmallow, and hollyhock and its effect on salivary secretion in healthy volunteers

Design

The clinical trial has no control group and no blinding, it is phase 2 clinical trial on 25 healthy volunteers.

Settings and conduct

The place of study is the Alborz Faculty Of Pharmacy laboratory. By putting cotton in the volunteer's mouth and weighing it, the amount of saliva secreted before and after taking the lozenge is measured and then compared.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Participants must be 18 years old or older. And people over 60 years old or older should not participate in the study; Candidates should not be patient, especially with diseases related to the salivary glands and oral mucosa; Participants should not have a dry mouth or dry eyes; Participants must be able to read, complete, and sign the consent form. They should also be able to understand and answer the questionnaire. Exclusion criteria: Intolerance of taking pills during the test and unwillingness to continue working; People who answer "yes" to the question about dryness. These people are considered "positive" for dry mouth; Lactating women and pregnant women; Participants who complain of dry mouth or dry eyes; Patients with oral lesions or other contact sensitivities; Patients suffering from autoimmune diseases; People with acute or chronic use of drugs that cause dry mouth; Patients undergoing radiotherapy; People with chronic diseases, if they are not well controlled; People with HIV, hepatitis B, or hepatitis C infection

Intervention groups

Volunteers receive the lozenge, and their saliva secretion

is measured before and after receiving the lozenge and then compared.

Main outcome variables

Organoleptic characteristics of the lozenge; the effect of the lozenge on the amount of saliva secretion

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20221229056981N1**

Registration date: **2023-04-15, 1402/01/26**

Registration timing: **prospective**

Last update: **2023-04-15, 1402/01/26**

Update count: **0**

Registration date

2023-04-15, 1402/01/26

Registrant information

Name

Mobina Shabani

Name of organization / entity

The Alborz University of Medical Science

Country

Iran (Islamic Republic of)

Phone

+98 21 4463 1775

Email address

mbnsh24@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-04-24, 1402/02/04
Expected recruitment end date
2023-07-31, 1402/05/09
Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Evaluation of the effect a herbal lozenge tablet containing ginger, green tea, hollyhock, and mallow and on saliva secretion by measuring the difference in the weight of secreted saliva before and after taking the pill; in healthy volunteers.

Public title
Evaluation of the effect a herbal lozenge tablet containing ginger, green tea, hollyhock, and mallow and on saliva secretion in healthy volunteers.

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria:
1. Participants should be 18 years old or older. And people over 60 years old or older should not participate in the study. 2. Candidates should not be patient, especially diseases which are regarded to salivary glands and oral mucosa. 3. Participants should not have dry mouth or dry eyes. 4. Participants must be able to read, complete and sign the consent form. They should also be able to understand and answer the questionnaire.
Exclusion criteria:
1. Intolerance to taking pills during the test and unwillingness to continue working. 2. People who answer "yes" to the questions about dryness. These people are considered "positive" for dry mouth and cannot participate in the study. 3. Lactating women and pregnant women. 4. Participants who complain of dry mouth or dry eyes. 5. Patients with oral lesions or other contact sensitivities. 6. Patients suffering from autoimmune diseases such as Sjogren's syndrome, rheumatoid arthritis, systemic lupus erythematosus or progressive systemic sclerosis, because people with these autoimmune inflammatory diseases show persistent dry mouth. 7. People with acute or chronic use of drugs that cause dry mouth. Which includes drugs such as antihistamines, antipsychotics, antidepressants and etc. 8. Patients undergoing radiotherapy (mainly for the treatment of head and neck cancer). 9. People with chronic disease, if it is not well controlled. 10. People with HIV, hepatitis B or hepatitis C infection.

Age
From **18 years** old to **60 years** old

Gender
Both

Phase
2

Groups that have been masked
No information

Sample size

Target sample size: **25**
Randomization (investigator's opinion)
N/A
Randomization description
Blinding (investigator's opinion)
Not blinded
Blinding description
Placebo
Not used
Assignment
Single
Other design features

Secondary Ids
empty

Ethics committees

1
Ethics committee
Name of ethics committee
Ethics committee of Alborz University of Medical Sciences
Street address
Deputy of research and technology, Saffarian Alley, Golshahr Ave.
City
Karaj
Province
Alborz
Postal code
3198764653
Approval date
2022-11-12, 1401/08/21
Ethics committee reference number
IR.ABZUMS.REC.1401.250

Health conditions studied

1
Description of health condition studied
Xerostomia
ICD-10 code
K11.7
ICD-10 code description
Disturbances of salivary secretion

Primary outcomes

1
Description
The amount of saliva secretion
Timepoint
Before and after taking the lozenge
Method of measurement
By cotton weighing. In this way, before taking the lozenge, cotton it is placed in the volunteer's mouth and then it is weighed. The same process is repeated after

taking the lozenge. Then, the difference in the weight of the cottons, which shows the increase in saliva secretion, is calculated.

2

Description

Organoleptic characteristics

Timepoint

Immediately after taking the pill

Method of measurement

Statistical analysis is done based on scoring the questionnaire regarding organoleptic characteristics. The questionnaire is evaluated in the form of scoring. Scores are analyzed statistically by Anova method.

Secondary outcomes

empty

Intervention groups

1

Description

First intervention group: The lozenge used contains 500 mg of xylitol, 200 mg of green tea extract, 200 mg of ginger extract, 100 mg of marshmallow extract, and 100 mg of cheese extract. This lozenge was prepared in the laboratory of Alborz University of Medical Sciences. Two pre-weighed cotton rolls are placed on each side of the roof of the person's mouth. Then the cotton rolls are taken out and weighed again. In the second step, we perform all these steps after taking the lozenge and compare the results. The second intervention group: in this evaluation, after taking the lozenge, the volunteer will evaluate the sensory characteristics using the 5-point hedonic method by completing the evaluation questionnaire in the form of scoring.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Alborz University Of Medical Science

Full name of responsible person

Mohammad Mahdi Ahmadian-Attari

Street address

School of Pharmacy, Next to Imam Ali Hospital, Valiasr Street, Shora Blvd.

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3154686689

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Alborz University Of Medical Science

Full name of responsible person

Razieh Lotfi

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Web page address

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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

Alborz University Of Medical Science

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

Alborz University of Medical Sciences

Full name of responsible person

Mohammad Mahdi Ahmadian-Attari

Position

Assistant professor

Latest degree

Ph.D.

Other areas of specialty/work

Medical Pharmacy

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Valiasr Street, Shora Blvd.

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Province

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Alborz University of Medical Science

Full name of responsible person

Mohammad Mahdi Ahmadian-Attari

Position

Assistant professor

Latest degree

Ph.D.

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

The Alborz University of Medical Science

Full name of responsible person

Mobina Shabani

Position

Student

Latest degree

A Level or less

Other areas of specialty/work

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available

Title and more details about the data/document

All of the collected data and information related to the main outcome or similar can be shared, for example, data related to the effect of the lozenge on the amount of saliva secretion and data related to the organoleptic profile of the lozenge. These data will be published in the form of article.

When the data will become available and for how long

The access is available since 1402. After the end of the study and publication of data.

To whom data/document is available

All academic and industry researchers can receive the data without the names of the participants and respecting ethical principles.

Under which criteria data/document could be used

Receiving the data depends on observing ethics in research and maintaining confidentiality, as well as observing the rights of the author regarding the ownership of the data.

From where data/document is obtainable

By corresponding author's email. And also referring to the article or thesis. The thesis is available in the library of Alborz Faculty of Pharmacy .

What processes are involved for a request to access data/document

By sending email and also receive the article or read the thesis in Alborz Pharmacy School.

Comments