

Clinical Trial Protocol

Iranian Registry of Clinical Trials

11 Jun 2026

Comparison the effect of natural gum, water spray and wet gauze on patients thirsty after coronary artery bypass graft surgery.

Protocol summary

Study aim

Comparison the effect of natural gum, water spray and wet gauze on patients thirsty after coronary artery bypass graft surgery

Design

Randomized clinical trial with three groups and parallel group

Settings and conduct

The present study is a randomized clinical trial on 120 patients after coronary artery bypass graft surgery in Farshchian Hospital of Hamadan. In this study, in the intervention groups, three methods of natural gum, water spray and wet gases will be compared to reduce thirst.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Patients are alert and NPO, Thirst expressed by patients undergoing coronary artery bypass graft surgery. Exclusion criteria: Unwillingness to continue cooperation, Patient death

Intervention groups

Intervention group1: Natural gum is placed in the patient's mouth and they are asked to keep it in their mouths as much as possible. After 15 minutes, a new gum is given to the same size, and the patient is asked to keep it in his mouth for 15 minutes. Intervention group2: Water spray dispersed twice in 15 minutes directly into the mouth to wet the surface of the tongue and mucus. Intervention group3: Twice wet gauze will be placed directly on the surfaces of both lips for 15 minutes.

Main outcome variables

Thirst severity

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20160110025929N19**

Registration date: **2018-12-24, 1397/10/03**

Registration timing: **registered_while_recruiting**

Last update: **2018-12-24, 1397/10/03**

Update count: **0**

Registration date

2018-12-24, 1397/10/03

Registrant information

Name

Mehdi Molavi Vardanjani

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 81 3422 5056

Email address

m.molavi@umsha.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-12-22, 1397/10/01

Expected recruitment end date

2019-12-22, 1398/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison the effect of natural gum, water spray and wet gauze on patients thirsty after coronary artery bypass graft surgery.

Public title

Comparison the effect of natural gum, water spray and

wet gauze on patients thirsty

Purpose

Health service research

Inclusion/Exclusion criteria

Inclusion criteria:

Thirst expressed by patients undergoing Coronary artery bypass graft surgery Patients are alert and NPO.

Exclusion criteria:

Patient death Unwillingness to continue cooperation

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **120**

Randomization (investigator's opinion)

Randomized

Randomization description

In the present study, the patients were registered according to the sample size (120) according to the entry criteria, and using the blocking method (using a three-block method, three letters A, B and C with different permutations we place blocks in blocks and randomly select 46 blocks and assign each block to 3 people) will be assigned to three groups.

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Hamadan University of Medical Sciences

Street address

Shahid Fahmideh St., Hamadan University of Medical Sciences, Hamadan

City

Hamadan

Province

Hamadan

Postal code

38698-65178

Approval date

2018-10-13, 1397/07/21

Ethics committee reference number

IR.UMSHA.REC.1397.490

Health conditions studied

1

Description of health condition studied

Coronary artery disease

ICD-10 code

I25.0

ICD-10 code description

Atherosclerotic cardiovascular disease, so described

Primary outcomes

1

Description

The intensity of thirst

Timepoint

After intervention

Method of measurement

Visula Analog Scale(VAS)

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group1: Natural gum is placed in the patient's mouth and they are asked to keep it in their mouths as much as possible. After 15 minutes, a new gum is given to the same size, and the patient is asked to keep it in his mouth for 15 minutes

Category

Other

2

Description

Intervention group2: Water spray dispersed twice in 15 minutes directly into the mouth to wet the surface of the tongue and mucus.

Category

Other

3

Description

Intervention group3: Twice wet gauze will be placed directly on the surfaces of both lips for 15 minutes

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Farshchian hospital

Full name of responsible person

Mahnaz Khatiban

Street address

Shahid Fahmideh St., Hamadan University of Medical Sciences, Hamadan

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Saeed Bashirian

Street address

Shahid Fahmideh St., Hamadan University of Medical Sciences, Hamadan

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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

Deputy of research and technology

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

Hamedan University of Medical Sciences

Full name of responsible person

Mahnaz Khatiban

Position

Associate professor

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

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Position

Associate professor

Latest degree

Ph.D.

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Alireza Nouri Gholamizadeh

Position

Student

Latest degree

Bachelor

Other areas of specialty/work

Nursery

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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