Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

An investigation of the topical impact of lemon juice on impulse control of spontaneous nasal bleeding in patients referred to the Emergency Services

Protocol summary

Study aim

Evaluation of the effect of lemon juice in control of spontaneous nasal bleeding

Design

A parallel randomized double-blind controlled clinical trial, will be performed on patients referred to the emergency ward with a diagnosis of spontaneous nasal bleeding. 150 patients will be randomly assigned to receive the intervention and the placebo using a random number table .

Settings and conduct

150 patients with spontaneous nasal bleeding referring to emergency ward of Rahnemoun Hospital, Yazd, after receiving an informed consent, will be assigned randomly to the A and B groups. The bottles of cottons containing lemon juice (5 drops) (intervention) or phenylephrine (placebo) will be separated by A and B labels by someone irrelevant to the study (participants and researchers will be blinded to the type of treatment). After putting lemon juice or placebo cottons in the patient's nose, nasal bleeding will be checked after 5 and 10 minutes. Patients will be followed for the next 24 hours for control of bleeding. In case of non-recovery within 10 minutes of either A or B intervention, standard therapy (anterior tampon) will be applied. The results of 2 groups will be compared together.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Men and women referred to the emergency ward of Shahid Rahnemoun Hospital, Yazd with a diagnosis of spontaneous nasal bleeding,age range of 18-55 years who wish to participate in the study. Exclusion criteria: Pregnancy and underlying liver, kidney and heart disease, hereditary or acquired coagulopathy and a history of lemon or phenylphrine or lidocaine sensitivity and trauma.

Intervention groups

Intervention: Putting cotton containing 2%lidocaine and lemon juice (5 drops) in the patient's nose Control: Putting cotton containing 2%lidocaine and phenylephrine in the patient's nose

Main outcome variables

Nasal bleeding after 5, 10 minutes and 24 hours

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180624040228N3**
Registration date: **2020-04-04, 1399/01/16**
Registration timing: **prospective**

Last update: **2020-04-04, 1399/01/16**
Update count: **0**

Registration date

2020-04-04, 1399/01/16

Registrant information

Name
Fahime Zeinali
Name of organization / entity
Country
Iran (Islamic Republic of)
Phone
+98 35 3820 9143
Email address
fghzeinaly@ssu.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-04-13, 1399/01/25

Expected recruitment end date

2020-07-20, 1399/04/30

Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
An investigation of the topical impact of lemon juice on impulse control of spontaneous nasal bleeding in patients referred to the Emergency Services

Public title
Topical impact of lemon juice on impulse control of spontaneous nasal bleeding
Purpose
Treatment
Inclusion/Exclusion criteria
Inclusion criteria:
Men and women referred to the emergency department of Shahid Sadoughi and Shahid Rahnemoon Hospitals of Yazd with a diagnosis of spontaneous nasal bleeding The age range of 18-55 years Who wish to participate in the study
Exclusion criteria:
Pregnancy Uunderlying liver, kidney and heart disease Hereditary or acquired coagulopathy History of lemon or phenylphrine or lidocaine sensitivity Trauma
Age
From **18 years** old to **55 years** old
Gender
Both

Phase
3
Groups that have been masked

- Participant
- Care provider
- Investigator
- Outcome assessor
- Data analyser

Sample size
Target sample size: **150**
Randomization (investigator's opinion)
Randomized
Randomization description
1.Randomization method: Simple 2.Randomization unit: Personal 3.Randomization device: Random number table .To assign individuals to the intervention and control groups, a random number table will be used.
Blinding (investigator's opinion)
Double blinded
Blinding description
Cottons containing lemon juice and placebo are similar in shape and appearance, and the bottles of cottons are the same (in terms of color and shape). A and B labels will be fixed on the bottles of Cottons by someone irrelevant to the entire study. participants and researchers will be blinded to the contents in the bottles through out the study.
Placebo
Used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
National Committee for Ethics in Biomedical Research
Street address
Floor 13, Block A, Ministry of Health & Medical Education Headquarters, Between Zarafashan & South Falamak, Qods Town
City
Tehran
Province
Tehran
Postal code
1234567890
Approval date
2019-06-26, 1398/04/05
Ethics committee reference number
IR.SSU.MEDICINE.REC.1398.100

Health conditions studied

1

Description of health condition studied
Spontaneous nasal bleeding
ICD-10 code
R04.0
ICD-10 code description
Epistaxis

Primary outcomes

1

Description
Nasal bleeding
Timepoint
5 and 10 minuets and 24 hours after intervention
Method of measurement
Physical examination by the physician

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: Put cotton containing 2% lidocaine

and lemon juice (5 drops) in the patient's nose

Category

Treatment - Drugs

2

Description

Control group: Put cotton containing 2% phenylephrine and lidocaine in the patient's nose

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Emergency Shahid Rahnemoun Hospital

Full name of responsible person

Behzad Zeinaly

Street address

Shahid Rahnemoun Hospital, Farokhi street

City

Yazd

Province

Yazd

Postal code

8916886938

Phone

+98 35 3626 0001

Email

Rahnemoonhospital@ssu.ac.ir

2

Recruitment center

Name of recruitment center

Emergency Shahid Sadoughi

Full name of responsible person

Behzad Zeinaly

Street address

Shahid Sadoughi Hospital, Ibn Sina Street, Shahid Ghandi Blvd.

City

Yazd

Province

Yazd

Postal code

8915173160

Phone

+98 35 3822 9009

Email

yazd_cdc@ssu.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Yazd University of Medical Sciences

Full name of responsible person

Fateme Mojalal

Street address

Shahid Sadoughi University of Medical Sciences, Shohadaye gomnam Blvd, Alam Sqrt

City

Yazd

Province

Yazd

Postal code

8915173160

Phone

+98 35 3820 9100

Email

Fmodjallal@ssu.ac.ir

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Yazd University of Medical Sciences

Proportion provided by this source

50

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

Yazd University of Medical Sciences

Full name of responsible person

Behzad Zeinaly

Position

Resident

Latest degree

Medical doctor

Other areas of specialty/work

Emergency Medicine

Street address

Shahid Ghandi Blvd., Ibn Sina Street, Shahid Sadoughi Hospital

City

Yazd

Province

Yazd

Postal code

8915173160

Phone

+98 35 3822 9009

Email

fghzeinaly@yahoo.com

Person responsible for scientific inquiries

Contact

Name of organization / entity
Yazd University of Medical Sciences

Full name of responsible person
Fateme Mojalal

Position
Professor

Latest degree
Specialist

Other areas of specialty/work
Emergency Medicine

Street address
Shahid Ghandi Blvd., Ibn Sina Street, Shahid Sadoughi Hospital

City
Yazd

Province
Yazd

Postal code
8915173160

Phone
+98 35 3822 9009

Email
Fmodjallal@ssu.ac.ir

Person responsible for updating data

Contact

Name of organization / entity
Yazd University of Medical Sciences

Full name of responsible person
Behzad Zeinaly

Position
Resident

Latest degree
Medical doctor

Other areas of specialty/work
Emergency Medicine

Street address
Shahid Sadoughi Hospital, Ibn Sina Street, Shahid Ghandi Blvd.

City
Yazd

Province
Yazd

Postal code
8915173160

Phone
+98 35 3822 9009

Email
fghzeinaly@yahoo.com

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