

Clinical Trial Protocol

Iranian Registry of Clinical Trials

07 Jun 2026

Hemostatic effect of desmopressin nasal spray in rhinoplasty

Protocol summary

Study aim

Evaluation of the hemostatic effect of desmopressin nasal spray in rhinoplasty

Design

This study will be a double-blind randomized clinical trial with parallel groups on 88 patients who will be undergoing rhinoplasty. Patients participating in the study will be divided into two groups by tossing coins.

Settings and conduct

Patients referred to Mir Hosseini Hospital will be included in the study. Patients participating in the study, the researcher, and the data collector will be unaware of the type of drug used.

Participants/Inclusion and exclusion criteria

Inclusion criteria: All patients referred to Mir Hosseini hospital who will undergo rhinoplasty with consent to participate in the study. Exclusion criteria: patients with hemodynamic instability or coagulation disorders.

Intervention groups

Intervention group: Patients one hour before surgery will receive Nasal spray desmopressin, two puffs on each side of the nose. A total of 40 micrograms of desmopressin is given to the patient. Control group: Patients will receive two puffs of normal saline spray.

Main outcome variables

Bleeding

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20210424051060N1**

Registration date: **2021-05-18, 1400/02/28**

Registration timing: **registered_while_recruiting**

Last update: **2021-05-18, 1400/02/28**

Update count: **0**

Registration date

2021-05-18, 1400/02/28

Registrant information

Name

Zohre Nazarpour

Name of organization / entity

Country

Iran (Islamic Republic of)

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+98 71 3625 0005

Email address

nazarpour@sums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-05-04, 1400/02/14

Expected recruitment end date

2021-05-31, 1400/03/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Hemostatic effect of desmopressin nasal spray in rhinoplasty

Public title

Evaluation of the hemostatic effect of desmopressin nasal spray in rhinoplasty

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria:

Age over 18 years Hemoglobin above 10 Patients without coagulation disorders

Exclusion criteria:

Coagulant disorder A condition associated with clot such as CVA, thrombosis Drug sensitivity to desmopressin Hypertension Taking drugs that affect coagulation

Age

From **18 years** old

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Investigator
- Outcome assessor

Sample size

Target sample size: **88**

Randomization (investigator's opinion)

Randomized

Randomization description

Patients will be divided into two groups of intervention and control by tossing a coin.

Blinding (investigator's opinion)

Double blinded

Blinding description

For blinding in the present study, the double-blind method is used, so that the participant in the study, the researcher and the data collector do not know which patients received desmopressin nasal spray and which patients received normal saline spray.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Shiraz University of Medical Sciences

Street address

Shiraz, Zand St., in front of Palestine St., the central building of Shiraz University of Medical Sciences

City

Shiraz

Province

Fars

Postal code

۱۴۳۳۶ - ۷۱۳۴۸

Approval date

2020-05-20, 1399/02/31

Ethics committee reference number

IR.SUMS.MED.REC.1400.031

Health conditions studied

1

Description of health condition studied

Rhinoplasty

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Bleeding

Timepoint

In the 30th and 60th minutes after the start of surgery

Method of measurement

According to Beozaart criteria

Secondary outcomes

1

Description

Surgeon satisfaction

Timepoint

At the end of surgery

Method of measurement

According to the Likert scale

2

Description

Length of surgery

Timepoint

End of surgery

Method of measurement

Surgery time based on minutes

Intervention groups

1

Description

Intervention group: One hour before the start of nasal spray surgery, desmopressin will be given, two puffs on each side of the nose, giving the patient a total of 40 micrograms of desmopressin acetate.

Category

Treatment - Drugs

2

Description

Control group: Patients will receive two puffs of normal saline spray.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Mir Hosseini Hospital

Full name of responsible person

Zohreh Nazarpour Sarvak

Street address

Shiraz - Atlasi Square - Hijrat Boulevard - facing
Abiramaz Street - Dr. Mir Hosseini Specialized and
Sub-Specialized Hospital

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shiraz University of Medical Sciences

Full name of responsible person

Hamid Mohammadi

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Shiraz, Zand St., in front of Palestine St., the central
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med-thesis@sums.ac.ir

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Shiraz University of Medical Sciences

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**

Shiraz University of Medical Sciences

Full name of responsible person

Zohreh Nazarpour Sarvak

Position

ENT resident

Latest degree

Specialist

Other areas of specialty/work

Ear, Nose, and Throat

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Person responsible for scientific inquiries

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Position

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Person responsible for updating data

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Position

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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