

Clinical Trial Protocol

Iranian Registry of Clinical Trials

21 Jul 2026

desmopressin effects on bleeding after functional endoscopic sinus surgery on patients with chronic rhinosinusitis with and without polyposis

Protocol summary

Study aim

Determination of the effect of desmopressin on the reduction of bleeding during surgery in FESS surgeries

Design

The blocking method will be used to select patients in one of the two intervention and control arms so that they are selected using the random numbers table of the 4 blocks and then the items will be selected and introduced with time review. It should be noted that in this study, the patients, the team of surgeons, the anesthetic team and the operating room team did not know the control or intervention of the patients.

Settings and conduct

In the operating room of Amiralam Hospital, 100 ml of normal saline was injected to both groups half an hour before surgery. In the control group, it contained only normal saline and in the intervention group containing 0.1 µgr / kg desmopressin. In this study Patients, the team of surgeons, the anesthetic team and the operating room team are unaware of the control or intervention of the patients, and the intervention group and the placebo group are both surgically treated by a professor

Participants/Inclusion and exclusion criteria

Patients with chronic Rhinosinusitis in the age group of 15-60 years without heart disease and underlying coagulation disorders, without high blood pressure

Intervention groups

In both groups, 100 ml of normal serum saline was injected half an hour before surgery. In the control group, this serum only contained normal saline and in the intervention group containing 0.1 µgr / kg desmopressin. After surgery, if the surgery field is not satisfied by the surgeon, the 100th second serum is prescribed in both groups, and after half an hour if bleeding is repeated, 100 cc is also prescribed.

Main outcome variables

Reduction of bleeding during surgery, surgeon

satisfaction from the field of operation and shortening the duration of the FESS surgery.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20170120032069N5**

Registration date: **2019-11-10, 1398/08/19**

Registration timing: **registered_while_recruiting**

Last update: **2019-11-10, 1398/08/19**

Update count: **0**

Registration date

2019-11-10, 1398/08/19

Registrant information

Name

Ardavan Tajdini

Name of organization / entity

Tehran University of Medical Science

Country

Iran (Islamic Republic of)

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a-tajdini@sina.tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-03-21, 1398/01/01

Expected recruitment end date

2020-02-20, 1398/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

desmopressin effects on bleeding after functional endoscopic sinus surgery on patients with chronic rhinosinusitis with and without polyposis

Public title

Desmopressin effects on bleeding after functional endoscopic sinus surgery on patients with chronic rhinosinusitis with and without polyposis

Purpose

Prevention

Inclusion/Exclusion criteria**Inclusion criteria:**

Patients with chronic rhinosinusitis in the age group of 15-60 years old No heart disease without Background coagulation disorders Without high blood pressure No history of previous FESS surgery

Exclusion criteria:

If patients are not satisfied with entering the project

Age

From **15 years** old to **60 years** old

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Investigator
- Outcome assessor
- Data analyser

Sample size

Target sample size: **19**

Randomization (investigator's opinion)

Randomized

Randomization description

Patients eligible for inclusion in the study are interviewed first and explained to the project, and, if satisfied, to participate in the study, the patients will receive written consent to be included in the plan and informed of them. They will be randomly assigned to either group. The blocking method will be used to select patients in one of the two intervention and control arms so that they are selected using the random numbers table of the 4 blocks and then the items will be selected and introduced with time review. It should be noted that in this study, the patients, the team of surgeons, the anesthetic team and the operating room team did not know the control or intervention of the patients, and the intervention group and the placebo group were both surgically operated by a professor, and for both groups 100 cc My head is ready to be used, which the surgical team and the data analyst do not know about its nature.

Blinding (investigator's opinion)

Double blinded

Blinding description

In this study, the patients, the team of surgeons, the

anesthetic team and the operating room team were unaware of the control or intervention of the patients, and the intervention group and the placebo group were both surgically treated by a professor.

Placebo

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Vice-Chancellor in Research Affairs- Tehran University of Medical

Street address

Amiralam hospitla, north sadi av. Enqelab av.

City

تهران

Province

Tehran

Postal code

1145765111

Approval date

2019-06-22, 1398/04/01

Ethics committee reference number

IR.TUMS.VCR.REC. 1398.311

Health conditions studied**1****Description of health condition studied**

chronic rhinosinusitis with and without polyposis

ICD-10 code

chronic Rh

ICD-10 code description

chronic Rhinosinusitis, polyposis, Desmopressin, FESS

Primary outcomes**1****Description**

Reduce bleeding during FESS surgery - better view of surgeon on operating field -- Reduce the time of surgery

Timepoint

Measuring the amount of bleeding at the end of surgery

.... Measuring surgeon satisfaction at the end of surgery

.... Measuring the time of surgery at the end of surgery

Method of measurement

Calibrated container to measure the amount of bleeding. A numerical questionnaire is used to measure the surgeon's satisfaction .measure the time of operation by clock.

Secondary outcomes

1

Description

Reduce the need for postoperative blood transfusions
Reduce the need for intraoperative anesthesia

Timepoint

Both outcomes are measured at the end of surgery.

Method of measurement

The rate of hemoglobin loss at the end of surgery and the amount of anesthetic drugs used during surgery

Intervention groups

1

Description

Intervention group: Intervention group: 100mg normal saline containing 0.1µgr / kg desmopressin will be injected 1 min before surgery in case group. If the surgeon is dissatisfied from the operation field, a second dose of the drug is injected 30 minutes after surgery.

Category

Treatment - Drugs

2

Description

Control group: In this group, 100 ml of normal saline is injected 30 minutes before surgery.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Amir-alam hospital

Full name of responsible person

Jawad Hosseini

Street address

Amir-alam hospital, north Sadee str., Enqelab st.

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2

Recruitment center

Name of recruitment center

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Full name of responsible person

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

Mohammad Ali Sahraeian

Street address

Amir-alam hospital, north Sadi Ave., Enqelab Ave.

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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

Tehran 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

Tehran University of Medical Sciences

Full name of responsible person

Jawad Hosseini

Position

residence

Latest degree

Medical doctor

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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Latest degree

Medical doctor

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

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Full name of responsible person

Jawad Hosseini

Position

residence

Latest degree

Medical doctor

Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is 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

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is 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

Title and more details about the data/document

Demographic information and information of samter's Triad and Land McKay Score and the results of some tests are available.

When the data will become available and for how long

Access is available 2 years after the final results are published

To whom data/document is available

The results are accessible to researchers working in academic institutions and universities.

Under which criteria data/document could be used

To access the data, they must specify the type of data and specify the type of data to use.

From where data/document is obtainable

To receive the type of information, they can email the following email jawadhosseini.md@gmail.com

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

After submitting the request by email, their request will be reviewed by the research team and Up to 6 months after the request is submitted, their request will be sent to their email address.

Comments