

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Effect of topical furosemide on Rhinosinusal polyposis Relapse: A Triple Blinded Randomized Controlled Trial

Protocol summary

Summary

Study design: effect of topical furosemide on rhinosinusal polyposis relapse. A triple blinded randomized controlled trial, placebo-controlled. Plan: patients referred to Besat hospital clinic with chronic rhinosinosis and sinunasal polyposis(according to AAO-HNS) who have not responded to medical therapy, conscious to plan. Perform: patients randomly will be divided to intervention and control groups. All the patients will use preoperatively ,prednisolon tab, cefixime tab, and fluticasone spray for 10 days and then will go on operation(Fess and polypectomy). The intervention group will receive cefixime tab (10 days),fluticasone spray(6 months) and intranasal furosemide spray(2 months) after surgery. 6 months post operation and the control group will receive cefixime tab(10 days), fluticasone spray(6 months) and intranasal placebo spray(2 months) after surgery .for both groups before and after 6 months, PNS CT Scan scoring,SNOT-22,VAS,and Meltzer grading will be recorded. Intervention: Furosemide spray (6.6 mmol/L) 300 mcg each nostril/day (2puff twice for 2 months) after surgery. Study outcomes are: polyposis, burning sensation), epistaxis and hypersensitivity. Inclusion criteria: patients referred to besat hospital clinic with chronic rhinosinosis and sinunasal polyposis (according to AAO-HNS) who have not responded to medical therapy and 18-60 years old and candidate for FESS. Exclusion criteria: pregnancy; history of hypertension and cardiac diseases; hypokalemia; history of tinnitus; history of sensory neural hearing loss and hypersensitivity to Furosemide. Sample size: 82.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201403143186N5**

Registration date: **2014-05-28, 1393/03/07**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-05-28, 1393/03/07

Registrant information

Name

Farnaz Hashemian

Name of organization / entity

Hamadan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 81 3827 9001

Email address

hashemian@umsha.ac.ir

Recruitment status

Recruitment complete

Funding source

Hamedan University of Medical Sciences

Expected recruitment start date

2014-03-21, 1393/01/01

Expected recruitment end date

2015-08-22, 1394/05/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of topical furosemide on Rhinosinusal polyposis Relapse: A Triple Blinded Randomized Controlled Trial

Public title

Effect of topical furosemide on nasal polype relaps

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: patients referred to Besat hospital clinic with chronic rhinosinusitis (according to AAO-HNS) who have not responded to medical therapy and age with 18-60 years old. Exclusion criteria: pregnancy; history of hypertension, cardiac diseases, hypokalemia; history of tinnitus; history of sensory neural hearing loss and hypersensitivity to furosemide.

Age

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

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **82**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Triple blinded

Blinding description**Placebo**

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Hamedan University of Medical Sciences

Street address

Shahid Fahmideh street, Hamedan university of medical science

City

Hamedan

Postal code

65178

Approval date

2014-02-24, 1392/12/05

Ethics committee reference number

16/35/9/4194 /د/پ

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

Nasal polyposis

ICD-10 code

J33

ICD-10 code description

nasal polyp, unspecified

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

Nasal and paranasal sinus polyposis

Timepoint

Before intervention, 1 month, 3 months, 6 months after intervention

Method of measurement

SNOT-22 questionnaire, PNS CT scan scoring, VAS, Meltzer grading

Secondary outcomes**1****Description**

Burning sensation

Timepoint

1 month, 3 months, 6 months after intervention

Method of measurement

Questionnaire

2**Description**

Epistaxis

Timepoint

1 month, 3 months, 6 months after intervention

Method of measurement

Questionnaire and physical examination

3**Description**

Hypersensitivity

Timepoint

1 month, 3 months, 6 months after intervention

Method of measurement

Questionnaire and physical examination

Intervention groups**1****Description**

Intervention group: Furosemide/ spray/ twice a day/ 2 puffs in each nostril for 2 months.

Category

Prevention

2**Description**

Control group: placebo/ spray/ twice a day/ 2 puff in each nostril for 2 months.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Besat Hospital, ENT clinic

Full name of responsible person

Farnaz Hashemian

Street address

City

Hamedan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Tavilani Heydar

Street address

Shahid Fahmideh street, Hamedan University of Medical Sciences

City

Hamedan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Hamedan University of Medical Sciences

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

empty

Person responsible for general inquiries

Contact

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Farnaz Hashemian

Position

Associate professor

Other areas of specialty/work

Street address

Besat hospital, Shahid Beheshti Blvd, Hamedan

City

Hamedan

Postal code

Phone

+98 81 1264 0047

Fax

Email

hashemian@umsha.ac.ir; hashemianf@yahoo.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Farnaz Hashemian

Position

Associate professor

Other areas of specialty/work

Street address

Besat hospital, shahid beheshti Blvd. Hamedan

City

Hamedan

Postal code

Phone

+98 81 1264 0047

Fax

Email

Hashemian@umsha.ac.ir; hashemianf@yahoo.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Farnaz Hashemian

Position

Associate professor

Other areas of specialty/work

Street address

Besat hospital, Shahid Beheshti Blvd. Hamedan

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+98 81 1264 0047

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Email

hashemian@umsha.ac.ir; hashemianf@yahoo.com

Web page address

Sharing plan

Deidentified Individual Participant Data Set (IPD)

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty
Analytic Code
empty

Data Dictionary
empty