

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Comparison between Dexamethasone and Tranexamic acid on postoperative edema and ecchymosis in the patients undergoing rhinoplasty

Protocol summary

Summary

Edema and ecchymosis are two commonly expected consequences of rhinoplasty. Usually Dexamethasone has been suggested for reducing the postoperative edema and ecchymosis associated with rhinoplasty. This study will determine Dexamethasone and Tranexamic acid efficacy on edema and ecchymosis after rhinoplasty. In a double blind clinical trial 70 rhinoplasty patients will be randomized in two groups. Group A will receive Dexamethasone and group B will receive Tranexamic acid. Injection for both groups is a dose of drug before and 3 doses per 8 hours after rhinoplasty. Patients will be evaluated postoperatively at 72 hours for edema and ecchymosis by standard scales.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201012291138N5**

Registration date: **2011-01-31, 1389/11/11**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-01-31, 1389/11/11

Registrant information

Name

Fataneh Bakhshi

Name of organization / entity

Guilan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 13 1223 8307

Email address

entrc@gums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Guilan University of Medical Sciences

Expected recruitment start date

2010-06-22, 1389/04/01

Expected recruitment end date

2011-01-21, 1389/11/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison between Dexamethasone and Tranexamic acid on postoperative edema and ecchymosis in the patients undergoing rhinoplasty

Public title

Comparison between Dexamethasone and Tranexamic acid on postoperative edema and ecchymosis in patients undergoing rhinoplasty

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: - All referents for rhinoplasty. Exclusion criteria: 1- History of peptic ulcer, diabetes, tuberculosis, sensitivity to corticosteroids 2- History of using corticosteroids 3- History of active infection 4- History of glaucoma

Age

No age limit

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: 70

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double 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 Guilan University of Medical Sciences

Street address

shahid siadati st.

City

Rasht

Postal code

Approval date

2010-12-11, 1389/09/20

Ethics committee reference number

11623

Health conditions studied

1

Description of health condition studied

rhinoplasty edema and ecchymosis

ICD-10 code

Y84

ICD-10 code description

Other medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure

Primary outcomes

1

Description

Edema and ecchymosis

Timepoint

72 hours after rhinoplasty

Method of measurement

Scale for periorbital ecchymosis and eyelid edema

Secondary outcomes

empty

Intervention groups

1

Description

Group A (Dexamethasone intervention): injection a dose of 8 mg before surgery and then 3 doses per 8 hours after surgery

Category

Treatment - Drugs

2

Description

Group B (Tranexamic acid intervention): injection a dose of 500 mg before surgery and then 3 doses per 8 hours after surgery

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Amir-almomenin Hospital

Full name of responsible person

Dr Mir Mohammad Jalali

Street address

17 shahrivar st.

City

Rasht

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Guilan University of Medical Sciences

Full name of responsible person

Susan Komaii

Street address

Namjou st.

City

Rasht

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice chancellor for research, Guilan 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

Guilan University of Medical Sciences

Full name of responsible person

Dr Mir Mohammad Jalali

Position

Assistant professor

Other areas of specialty/work

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Person responsible for scientific inquiries

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Web page address

Person responsible for updating data

Contact

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