Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 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 Tranexamicacid 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 Tranexamicacid. 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
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Iran (Islamic Republic of)
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+98 13 1223 8307
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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 corticostroids 2- History of using corticostroids 3- History of active infection 4- History of glocoma

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 priorbital 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 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