Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Comparison of rate and severity of nasal mucosal tear with internal and external lateral nasal osteotomy using endoscope

Protocol summary

Summary

The aim of this study is comparison of rate and severity of nasal mucosal tear with internal and external lateral nasal osteotomy using endoscope.30 candidates of elective nasal surgery (10 males and 20 females)aged 20 to 30 years will be studied from April 2014 to Auguest 2014 in this trial. Inclusion criteria:all candidates of elective nasal surgery aged 20 to 30 years. Exclusion criteria: 1.patients with history of nasal trauma 2. patients with history of nasal surgery 3.patients with severe deformity of nasal dorsum requiring complex osteotomies In this patients an external lateral osteotomy will be performed on one side and an internal lateral osteotomy will be performed on the alternate side.finally prevalence and severity of nasal mucosal tear will be compared between two sides and two groups.at the end of this study the technique of lateral nasal osteotomy with lower rate and severity of nasal mucosal tear will be demonstrated as the preffered technique.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014061013938N2**
Registration date: **2014-07-20, 1393/04/29**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2014-07-20, 1393/04/29

Registrant information

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Tabriz University of Medical Sciences
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Recruitment status

Recruitment complete

Funding source

Tabriz university of medical sciences,investigation secretary,research center of periodontal diseases

Expected recruitment start date

2014-04-21, 1393/02/01

Expected recruitment end date

2014-07-23, 1393/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of rate and severity of nasal mucosal tear with internal and external lateral nasal osteotomy using endoscope

Public title

effect of two different surgical techniques on amount of nasal mucosal tear

Purpose

Prevention

Inclusion/Exclusion criteria

inclusion criteria:all candidates of elective rhinoplasty aged 20-30years exclusion criteria:1-patients with systemic diseases 2-history of previous nasal trauma 3-uncooperative patients 4-history of previous nasal surgery 5-patients with inflammation of nasal mucosa 6-patients with severe deformity of nasal dorsum who need complex methods of osteotomy

Age
From **20 years** old to **30 years** old
Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **30**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Single blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Tabriz university of medical sciences/ethics committee
Street address
Daneshgah square,daneshgah avenue,Tabriz university of medical sciences
City
Tabriz
Postal code
Approval date
2014-06-29, 1393/04/08
Ethics committee reference number
9352

Health conditions studied

1

Description of health condition studied
nasal mucosal tear
ICD-10 code
T81.2
ICD-10 code description
Accidental puncture and laceration during a procedure, not elsewhere classified

Primary outcomes

1

Description
amount of nasal mucosal tear
Timepoint
immediately after intervention(intraoperatively)
Method of measurement
indirect view using endoscope

Secondary outcomes

1

Description
amount of bleeding
Timepoint
immediately after completion of osteotomy
Method of measurement
measurment of blood volume (millileter)

Intervention groups

1

Description
intervention group: after induction of general anesthesia and injection of 10 cc of 1:200000 epinephrine solution at lateral nasal walls and nasal dorsum the surgery was began,3mm osteotome without guard was introduced through skin at the midway between inner canthus and vestibule. when the cutting edge of osteotome reached bone the external osteotomy was initiated . In a blinded manner, another investigator used nasal endoscopy to detect nasal mucosal tears and reported them in millimeter (mm).
Category
Treatment - Surgery

2

Description
control group: after induction of general anesthesia and injection of 10 cc of 1:200000 epinephrine solution at lateral nasal walls and nasal dorsum the surgery was began. mucosal incision was made at the lateral nasal wall just above the junction of inferior turbinate.after introduction of 3mm guarded osteotome the internal osteotomy was initiated and completed at the level of the inner canthus . In a blinded manner, another investigator used nasal endoscopy to detect nasal mucosal tears and reported them in millimeter (mm).
Category
Treatment - Surgery

Recruitment centers

1

Recruitment center
Name of recruitment center
Maxillofacial surgery clinic
Full name of responsible person

Doctor alihosein mesgarzade

Street address

Daneshgah square,danshgah avenue,Imam reza teaching centre

City

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Investigation secretary of tabriz university of medical sciences

Full name of responsible person

Doctor hassan soleimanpoor

Street address

Daneshgah avenue,investigation secretary of tabriz university of medical sciences

City

Tabriz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Investigation secretary of tabriz 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

Tabriz university of medical sciences/denistry faculty

Full name of responsible person

Doctor alihosein mesgarzade

Position

Maxillofacial surgery specialist/lecturer

Other areas of specialty/work

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Person responsible for scientific inquiries

Contact

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Position

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Person responsible for updating data

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Saeed hajmohamadi

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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