Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Comparison of nasal packing versus septal stitches on airway complications during recovery from anesthesia

Protocol summary

Study aim

The objective of the study is to compare the incidence of airway related complications when using nasal packing versus septal stitch post-operatively in patients presenting for elective septoplasty for deviated nasal septum (DNS)

Design

A randomised controlled trial ; single study center with two interventional groups carried out from June 23 to Dec 23 , with sample size of 110 individuals in each group.

Settings and conduct

The study was conducted in Anesthesia department of combined military hospital rawalpindi, with randomized controlled method, non blind. The sampling was done by non probability consecutive sampling via lottery method and resident o duty marked the groups with X and Y chits. Patients of group marked with X chits were allocated septal stich group and patients with group marked Y chit were allocated nasal packing group.

Participants/Inclusion and exclusion criteria

The inclusion criteria included all patients >18 years presenting for pre-anesthesia assessment for elective nasal surgeries requiring nasal packing/septal stitch post-operatively. The exclusion criteria included patients < 18 years, pregnancy, previous history of septoplasty, patients with coagulation disorders, patients with advanced cardiac, respiratory, or metastatic disease, patients with concomitant nasal surgery including turbinectomy etc. and patients unwilling to be included in the study or lost to follow-up.

Intervention groups

The patients were randomized into two groups of 110 patients each. Group N (n=110) to receive nasal packing and Group S (n=110) to receive septal sutures.

Main outcome variables

Main variables were followings 1. Time from recovery room to discharge 2. Median pain scores in recovery 3. Mean dose of analgesia post procedure in recovery room before discharge 4. Laryngospam 5. Hypoxia 6. Bleeding 7. Headache 8. Sleep disturbances

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20240121060756N1**
Registration date: **2024-06-13, 1403/03/24**
Registration timing: **retrospective**

Last update: **2024-06-13, 1403/03/24**
Update count: **0**

Registration date

2024-06-13, 1403/03/24

Registrant information

Name

Muhammad Asif Hayat

Name of organization / entity

Combined military hospital rawalpindi

Country

Pakistan

Phone

+92 301 3171974

Email address

asifhayat577@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-06-10, 1402/03/20

Expected recruitment end date

2023-12-10, 1402/09/19

Actual recruitment start date

2023-06-15, 1402/03/25

Actual recruitment end date

2023-12-15, 1402/09/24

Trial completion date

2023-12-15, 1402/09/24

Scientific title

Comparison of nasal packing versus septal stitches on airway complications during recovery from anesthesia

Public title

Benefits of septal stitches over nasal packing during recovery from general anesthesia

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Included all patients >18 years presenting for pre-anesthesia assessment for elective nasal surgeries requiring nasal packing/septal stitch post-operatively.

Exclusion criteria:

Included patients < 18 years, pregnancy, previous history of septoplasty, patients with coagulation disorders, patients with advanced cardiac, respiratory, or metastatic disease, patients with concomitant nasal surgery including turbinectomy etc. and patients unwilling to be included in the study or lost to follow-up. Pregnant patients Previously history of septoplasty Coagulation disorders Cardiac diseases Respiratory diseases Unwilling for study

Age

From **18 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **110**

Actual sample size reached: **110**

Randomization (investigator's opinion)

Randomized

Randomization description

Simple Randomisation in both groups was done using lottery method. The unit of randomization was individual. At the day of surgery, before going to the operating room, all patients were asked to select envelopes prepared by a resident Anesthetist marked X and Y. Allocation concealment from the resident was done and only the consultant in the operating room was aware that patients in X were to undergo septal stitch and Y to undergo nasal packing

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

CMH ethical review board

Street address

Tamiz uddin road Rawalpindi

City

Rawalpindi

Postal code

46000

Approval date

2023-01-01, 1401/10/11

Ethics committee reference number

ERB.549 ethical review board of combined military hospital rawalpindi

Health conditions studied

1

Description of health condition studied

Airways complications in nasal packing versus stiches

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Airways complications in bilateral nasal packing versus septal stitches during recovery from general anesthesia

Timepoint

6 hours from post anesthesia recovery unit

Method of measurement

Visual analogue score , pulse oximeter for saturation

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Nasal packing group; vaseline soaked Nasal packing done during general anesthesia in septoplasty patients for mechanical to readjusted septum , to reduce bleeding .

Category

Treatment - Other

2

Description
Intervention group: Septal stitches group , quilted stitches applied to reduce incidence of airway complications, laryngospam, decrease bleeding, hematoma formation, hypoxia, good recovery with decreased healing time .
Category
Treatment - Other

Recruitment centers

1

Recruitment center
Name of recruitment center
Combined military hospital
Full name of responsible person
Dr Muhammad Asif Hayat
Street address
Tamizudin Road, rawalpindi
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Combined military hospital
Full name of responsible person
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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
Combined military hospital
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
Combined military hospital
Full name of responsible person
Dr Muhammad Asif Hayat
Position
Post graduate resident anaesthesiology
Latest degree
Medical doctor
Other areas of specialty/work
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Sharing plan

Deidentified Individual Participant Data Set (IPD)
Yes - There is a plan to make this available

Study Protocol
Yes - There is 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
Yes - There is a plan to make this available

Analytic Code
Yes - There is a plan to make this available

Data Dictionary
Yes - There is a plan to make this available

Title and more details about the data/document
All data could be provided

When the data will become available and for how long
Data will be available for two years starting from July 2023 to July 2025

To whom data/document is available
Academic institutions

Under which criteria data/document could be used
Intervention studies being done on the same topic

From where data/document is obtainable
asifhayat577@gmail.com

What processes are involved for a request to access data/document
Can contact to email (asifhayat577@gmail.com) for detailed data .

Comments