

Clinical Trial Protocol

Iranian Registry of Clinical Trials

06 Aug 2026

Comparing the effect of hydration with ringer lactat and 5% dextrose solution on nausea and vomiting after adenotonsilectomy surgeries.

Protocol summary

Summary

Background: The aim of this study was to evaluate the effect of ringer lactat solution on postoperative nausea and vomiting in adenoidectomy surgeries. Methode: This double blinded randomized clinical study was performed on 100 patients with American society anesthesia physical classification system (ASA) 1 or 2 aged 15-40 yr, were allocated for elective adenoidectomy surgery. The patients were randomized in two group according to type of preoperative hydration, 20 cc/kg lactated ringer's solution for R group and 20cc/kg 5% dextrose water solution for D group. All patients with history of diabetes mellitus, opiate addiction, smoking, motion sickness, intake of antiemetic or psychotic drugs, postoperative nausea and vomiting (PONV) after previous surgeries, and positive familial history of PONV, were excluded from this study. In this study postoperative nausea and vomiting was assessed for the last 24 hours after surgery.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201511121383N3**

Registration date: **2016-03-10, 1394/12/20**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2016-03-10, 1394/12/20

Registrant information

Name

Amir Saber Tanha

Name of organization / entity

Birjand University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 56 3243 2778

Email address

dr.saber@bums.ac.ir

Recruitment status

Recruitment complete

Funding source

Birjand University of Medical Sciences

Expected recruitment start date

2015-05-07, 1394/02/17

Expected recruitment end date

2015-10-07, 1394/07/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing the effect of hydration with ringer lactat and 5% dextrose solution on nausea and vomiting after adenotonsilectomy surgeries.

Public title

The effect of hydration with ringer lactat on post operative nausea and vomiting

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: 100 patients with American society anesthesia physical classification system (ASA) 1 or 2, aged 15-40 yr, were allocated for elective adenoidectomy surgery. Exclusion criteria: All patients with history of diabetes mellitus, opiate addiction, smoking, motion sickness, intake of antiemetic or psychotic drugs, postoperative nausea and vomiting (PONV) after previous surgeries, and positive familial

history of PONV, were excluded from this study.

Age

From **15 years** old to **40 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **95**

Randomization (investigator's opinion)

N/A

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

Birjand unviwersity of medical sciences

Street address

Birjand University of Medical Sciences, Ghafari Street, Birjand.

City

Birjand

Postal code

9717853577

Approval date

2015-07-27, 1394/05/05

Ethics committee reference number

IR.BUMS.1394.36

Health conditions studied

1

Description of health condition studied

postoperative nausea and vomiting

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Incidence of postoperative nausea and vomiting

Timepoint

Immediately after the end of the surgery, 0-2 h, 2-12 h, 12-24 h after surgery

Method of measurement

Incidence of nausea and vomiting during the first 24 hour after surgery.

Secondary outcomes

1

Description

Severity of nausea

Timepoint

Immediately after the end of surgery and at 0 - 2 h, 2 - 6 h and 6 - 24 h postsurgery.

Method of measurement

according to a visual analogue scale (VAS; 0, no nausea; 10, worst nausea)

2

Description

Need for rescue medication from nausea and vomiting.

Timepoint

Immediately after the end of surgery and at 0 - 2 h, 2 - 6 h and 6 - 24 h postsurgery.

Method of measurement

incidence of need for rescue medication from nausea and vomiting.

Intervention groups

1

Description

ringer lactat 20 ml per kilogeram from 24 hours before to end of the surgery

Category

Prevention

2

Description

dextrose 5% 20 ml per kilogeram from 24 hours before to end of the surgery

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Valiasr hospital of birjand university of medical sciences

Full name of responsible person

Dr. Amir Saber Tanha, anesthesiologist/ assistant professor

Street address

City

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Birjand University of Medical Sciences

Full name of responsible person

Dr. Asghar Zarban

Street address
Birjand University of Medical Sciences, Ghafari Street,
Birjand, Iran
City

Birjand

Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Birjand 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

Birjand University of Medical Sciences

Full name of responsible person

Samaneh kouzegaran

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Assistant professor of anesthesia

Other areas of specialty/work
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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