

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Comparison of the effects of restrictive and liberal fluid therapy on Postoperative nausea and vomiting in pediatric tonsillectomy surgery

Protocol summary

Registration timing: **registered_while_recruiting**

Study aim

This investigation was planned to evaluate the effect of superhydration on reducing the incidence of postoperative nausea and vomiting after tonsillectomy surgery.

Last update: **2019-03-17, 1397/12/26**

Update count: **0**

Registration date

2019-03-17, 1397/12/26

Design

This is a two arm parallel group randomized clinical trial with blinded postoperative care and outcome assessment in which 110 patients will be studied in 2 groups

Registrant information

Name

Mahshid Nikooseresht

Name of organization / entity

Hamadan university of Medical Sciences, Faculty of Medicine

Country

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Settings and conduct

This investigation will be performed in Besat Hospital, Hamadan. The person who care the patients and the person who analyze the data are blinded to group stratification. After induction of general anesthesia; infusion of the fluids will be started according to the patients' group. Incidence of nausea and vomiting and rescue antiemetic drug usage will be recorded at recovery and at 12 and 24 hours after surgery.

Recruitment status

Recruitment complete

Funding source

Participants/Inclusion and exclusion criteria

Inclusion criteria: all of the ASA 1 (2-12yr) healthy children candidate for adenotonsillectomy Exclusion criteria: diabetes, antiemetic or psychotic drug usage during previous 24 hours, gastroesophageal reflux

Expected recruitment start date

2018-10-09, 1397/07/17

Expected recruitment end date

2019-09-22, 1398/06/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Intervention groups

Intervention group: Infusion of lactated Ringer 30 cc/kg during surgery Control group: Infusion of lactated Ringer 10 cc/kg during surgery

Scientific title

Comparison of the effects of restrictive and liberal fluid therapy on Postoperative nausea and vomiting in pediatric tonsillectomy surgery

Main outcome variables

Postoperative nausea and vomiting, dose of antiemetic drug used during the first 24 hours after surgery

Public title

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20120118008768N9**

Registration date: **2019-03-17, 1397/12/26**

Evaluation of the effect of superhydration on postoperative nausea and vomiting after tonsillectomy

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria:

Healthy children aged between 2-12 yr Candidate for tonsillectomy

Exclusion criteria:

Refuse to sign the informed consent by the parents
history of diabetes mellitus mental retardation obesity (body mass index N95th percentile for age and sex
intake of antiemetic within 24 hours before surgery
intake of psychoactive medication within 24 hours before surgery known gastroesophageal reflux. Inaccessibility of patient for follow-up

Age

From **2 years** old to **12 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Participant
- Outcome assessor
- Data analyser

Sample size

Target sample size: **110**

Randomization (investigator's opinion)

Randomized

Randomization description

Block randomization with sealed envelope For this purpose 4 papers were prepared. The letter "I" for Intervention was written on 2 papers and the letter "C" for Comparison was written on two another papers. All 4 sheets were placed in a drawer and for including each patient one sheet was pulled out. According to the letter on the sheet "I" or "C"; the patient was assigned to intervention (leg elevation) or control (supine position) group. All of the four sheets were re-turned to the drawer and this cycle will be continued to meet the calculated sample size.

Blinding (investigator's opinion)

Double blinded

Blinding description

Patients, the person who collects data and the person who analyzes the data are blinded.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Committee of Ethics in Research, Hamadan University of Medical Sciences

Street address

Hamadan University of Medical Sciences, Shahid Fahmideh Street, Hamadan

City

Hamadan

Province

Hamadan

Postal code

65178

Approval date

2018-10-09, 1397/07/17

Ethics committee reference number

IR.UMSHA.REC.1397.467

Health conditions studied

1

Description of health condition studied

Nausea and vomiting

ICD-10 code

R11

ICD-10 code description

Nausea and vomiting

Primary outcomes

1

Description

postoperative nausea and vomiting

Timepoint

in recovery room, 12 hours and 24 hours after surgery

Method of measurement

question from patient or parents

Secondary outcomes

1

Description

Requested antiemetic dose in first 24 hours after surgery

Timepoint

At first 24 hours after surgery

Method of measurement

Evaluation of patients file and recording in questionnaire

Intervention groups

1

Description

Intervention group: (superhydration) Ringer lactate infusion 30cc/kg at the time of operation

Category

Prevention

2

Description

Control group: Infusion of 10cc/kg Lactated Ringer during surgery

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Besat Hospital

Full name of responsible person

Mahshid Nikooseresht

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Shahid Motahari Blvd, Resalat Square, Hamadan

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Saiid Bashirian

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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

Hamedan University of Medical Sciences

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

Hamedan University of Medical Sciences

Full name of responsible person

Mahshid Nikooseresht

Position

Associate Professor of Anesthesiology, Fellowship of Pain management

Latest degree

Specialist

Other areas of specialty/work

Anesthesiology

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Hamedan University of Medical Sciences

Full name of responsible person

Mahshid Nikooseresht

Position

Associate Professor of Anesthesiology, Fellowship of Pain management

Latest degree

Subspecialist

Other areas of specialty/work

Anesthesiology

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Person responsible for updating data

Contact

Name of organization / entity

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Full name of responsible person

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Position

Associate Professor of Anesthesiology, Fellowship of Pain management

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available