

Clinical Trial Protocol

Iranian Registry of Clinical Trials

03 Aug 2026

Effect of intravenous hydrocortisone in preventing post operative sore throat followed by using laryngeal mask airway in patients undergoing urogenital surgeries

Protocol summary

Summary

Post-operative sore throat is one of the unpleasant side effects due to air way management method during anesthesia. The aim of this study is to evaluate the effect of intravenous hydrocortisone to preventing post operative sore throat followed by using laryngeal mask airway during urogenital surgery. To do this 60 patients who undergoing urogenital surgery randomly divided to 2 groups (each group n=30). First group received 100 mg of intravenous hydrocortisone and second (control) group received placebo with the same volume five minutes before anesthesia induction. At the end of the operation and after LMAs removal, patients will be asked about having sore throat, hours 2, 4 and 24 after operation. Sore throat degree will be measured using a four score rating scale by an anesthesiologist who will be unaware of the type of the solution injected before operation. Inclusion Criteria: Elective urogenital surgery, ASA physical status class I-II Exclusion Criteria: Patients refuse to participate into study, Upper respiratory tract abnormalities or infection, sore throat, abdominal surgery, first unsuccessful LMA insertion, patients with full stomach, emergency conditions, pregnancy and smoking. To compare the mean of the normal quantity variables t-test and to compare the abnormal variables Mann-Whitney test were used. Qualitative variables were compared in both groups using Fisher's exact test. Analyses were done using SPSS 15.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201104094005N3**
Registration date: **2011-06-12, 1390/03/22**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-06-12, 1390/03/22

Registrant information

Name

Khosro Kolahdouzan

Name of organization / entity

Faculty of Paramedical Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 1334 4777

Email address

kolahdozank@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research of Tabriz University of Medical Sciences

Expected recruitment start date

2009-07-23, 1388/05/01

Expected recruitment end date

2011-03-16, 1389/12/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of intravenous hydrocortisone in preventing post operative sore throat followed by using laryngeal mask airway in patients undergoing urogenital surgeries

Public title

Effect of intravenous hydrocortisone in preventing post operative sore throat

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion Criteria: Elective urogenital surgery, ASA physical status class I-II Exclusion Criteria: Patients refuse to participate into study, Upper respiratory tract abnormalities or infection, sore throat, abdominal surgery, first unsuccessful LMA insertion, patients with full stomach, emergency conditions, pregnancy and smoking.

Age

From **20 years** old to **60 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Tabriz University of Medical Sciences

Street address

Daneshghah Street

City

Tabriz

Postal code

Approval date

2009-07-16, 1388/04/25

Ethics committee reference number

1325

Health conditions studied

1

Description of health condition studied

Sore throat

ICD-10 code

J02.9

ICD-10 code description

Sore throat (acute) NOS

Primary outcomes

1

Description

Sore throat

Timepoint

After remove of LMA and hours 2, 4 and 24 post operative

Method of measurement

Questionnaire

Secondary outcomes

1

Description

Blood pressure,

Timepoint

Pre and post induction-end of operation and recovery

Method of measurement

Questionnaire

2

Description

pulse rate

Timepoint

Pre and post induction-end of operation and recovery

Method of measurement

Questionnaire

3

Description

sao2

Timepoint

Pre and post induction-end of operation and recovery

Method of measurement

Questionnaire

Intervention groups

1

Description

In intervention group, patients will be given 100 mg (2 mL) of intravenous hydrocortisone five minutes before anesthesia induction.

Category

Treatment - Drugs

2

Description

In control group, normal saline 2ml will be injected 5 min before anesthesia

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Emam Reza Hospital

Full name of responsible person

Dr. Mahmoud eidy

Street address

City

Tabriz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Tabriz University of Medical Sciences

Full name of responsible person

Dr. Mohammad Reza Rashidi

Street address

Daneshgah Street

City

Tabriz

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, 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

Person responsible for scientific inquiries

Contact

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Dr. Mahmoud Eidy

Position

Associate Professor of Anesthesiology

Other areas of specialty/work

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Web page address

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