

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Effect of intravenous Dexamethasone in diminishing Alfentanil-induced cough

Protocol summary

Summary

The objective of this randomized, double blind mono center trial is to investigate the effect of IV Dexamethasone on Alfentanil-induced cough. In this study, 80 patients aged 18-50 years old, with physical status 1, 2 ASA and elective surgery, under general anesthesia and premed IV alfentanyl will be recruited and randomly assigned into intervention or control group. The patients in the intervention group will receive 0.15 mg/kg of I.V. Dexamethasone (2 ml), five minutes before anesthesia induction and Alfentanyl injection. The patients in the control group will also receive placebo (Normal saline) with same volume. The number of coughs will be measured during 30 seconds after alfentanyl injection and compared between groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201111141083N6**

Registration date: **2011-12-08, 1390/09/17**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-12-08, 1390/09/17

Registrant information

Name

Majid Pourshaikhian

Name of organization / entity

Guilan University of Medical Sciences and Health Services

Country

Iran (Islamic Republic of)

Phone

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Email address

m_pourshaikhian@gums.ac.ir

Recruitment status

Recruitment complete

Funding source

Private

Expected recruitment start date

2008-04-03, 1387/01/15

Expected recruitment end date

2009-03-18, 1387/12/28

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of intravenous Dexamethasone in diminishing Alfentanil-induced cough

Public title

Effect of Dexamethasone on cough

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: Elective surgery, general anesthesia, age 18-50 years old, 30-90kg, physical status: ASA 1 and 2
Exclusion criteria: Previous Asthma, smoking, chronic cough, use of bronchodilator, antihistamine, steroid, anti-cough, infection of upper respiratory system

Age

From **18 years** old to **50 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 80

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

Ardabil University of Medical Sciences and Health Services

Street address

Ardabil University of Medical Science, Justice administration side- Shorabil-way of University- Ardabil

City

Ardabil

Postal code

56191

Approval date

2008-02-27, 1386/12/08

Ethics committee reference number

2533/2/2/پ

Health conditions studied

1

Description of health condition studied

General anesthesia

ICD-10 code

T88.8

ICD-10 code description

Other specified complications of surgical and medical care, not elsewhere classified

Primary outcomes

1

Description

cough

Timepoint

Injection of Alfentanyl 5 minutes after injection of Dexamethasone (intervention), then counted the numbers of cough during 30 seconds.

Method of measurement

Observation of patient and counting of cough

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: IV Injection of single dose

Dexamethasone, 0/15 mg/kg (2 ml), 5 minutes before alfentanyl injection

Category

Treatment - Drugs

2

Description

Control group: IV Injection of distilled water (2) ml, five (5) minutes before alfentanyl injection.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Fatemi hospital

Full name of responsible person

Dr Vadod Norouzi (Anesthesiologist, Ardabil University professor)

Street address

Dr Fatemi hospital- Shariati square-Emam Khomeini Avenue- Ardabil- Iran

City

Ardabil

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Private

Full name of responsible person

Vadod Norouzi (professor of anesthesia)

Street address

Dr Fatemi hospital- Emam khomeini Avenue- Ardabil -

City

Ardabil

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Private

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*

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Full name of responsible person

Majid Pourshaikhian

Position

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Other areas of specialty/work**Street address**

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Guilan University of Medical Sciences and Health Services

Full name of responsible person

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Position

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Ardabil University of Medical Sciences and Health Services

Full name of responsible person

Dr Vadod Norouzi (professor of anesthesia)

Position

Anesthesiologist

Other areas of specialty/work**Street address**

Dr Fatemi hospital- Emam khomani Avenue- Ardabil

City**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*