Clinical Trial Protocol
Iranian Registry of Clinical Trials

03 Jul 2026

A Comparison and Evaluation of intra ocular pressure following intubation with Mccoy, Macintosh and video laryngoscope (Glide scope) in patients with cataract surgery.

Protocol summary

Summary

Our general objective in this study is assessing intraocular pressure (IOP) changes after intubation with three types of laryngoscope (McCoy, Macintosh and video laryngoscope or Glidescope). This is a double blind and prospective clinical trial on 180 patients subjected to cataract surgery in Shafa Hospital. Inclusion criteria are: patients who are admitted for elective cataract surgery, age: 20-70 year and have ASA classification as 1 or 2. Exclusion criteria are: history of alcohol and drug abuse, antihypertensive and cardiovascular medicines usage, glaucoma eye drop usage, diabetes and open eye injuries. The patients will be divided into three groups. Induction of anesthesia in all patients is similar. Just after induction and before intubation, intraocular pressure (IOP) will be measured by means of Schiotz tonometer. Then intubation will be done by Mccoy laryngoscope in group A, Macintosh laryngoscope in group B and glidescope in group C. After intubation IOP is measured again and anesthesia is maintained on Isoflurane. IOP is measured again five minutes later. Collected data will be analyzed by Repeated Measures ANOVA test.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201301079585N3**
Registration date: **2013-02-21, 1391/12/03**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2013-02-21, 1391/12/03

Registrant information

Name

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Name of organization / entity

Kerman University of Medical Sciences

Country

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Kerman University of Medical Sciences

Expected recruitment start date

2012-08-22, 1391/06/01

Expected recruitment end date

2013-01-20, 1391/11/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A Comparison and Evaluation of intra ocular pressure following intubation with Mccoy, Macintosh and video laryngoscope (Glide scope) in patients with cataract surgery.

Public title

Evaluation of intra ocular pressure following intubation

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria are: patients who are admitted for

elective cataract surgery, age: 20-70 and have ASA classification as 1 or 2. Exclusion criteria are: history of alcohol and drug abuse, antihypertensive and cardiovascular medicines usage, glaucoma eye drop usage, diabetes and open eye injuries.

Age
From **20 years** old to **70 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **180**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features
All patients will sign informed consent and they will be divided into three groups by means of random numbers table. Intubation is done by an anesthesiologist and the resident of anesthesiology who is blind to the kind of laryngoscope will obtain IOP, heart rate and blood pressure. Moreover the patients are unaware of the kind of used laryngoscope.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethnic Committee of Kerman University of Medical Sciences

Street address
Jomhoori Boulevard

City
Kerman

Postal code

Approval date
2012-04-17, 1391/01/29

Ethics committee reference number
k/91/02

Health conditions studied

1

Description of health condition studied
cataract

ICD-10 code
H26.9

ICD-10 code description
Cataract, unspecified

Primary outcomes

1

Description
intra ocular pressure

Timepoint
before and after intubation, and 5 minutes later

Method of measurement
Schiotz tonometer

Secondary outcomes

1

Description
Mean Arterial Pressure

Timepoint
Before and after intervention and every 5 minutes during operation

Method of measurement
mmhg / by electronic monitoring

2

Description
Heart Rate

Timepoint
Before and after intervention and every 5 minutes during operation

Method of measurement
electronic monitoring

Intervention groups

1

Description
Intubation by Mccoy laryngoscope made by Riester company of Germany, after induction of anesthesia.

Category
Treatment - Devices

2

Description
Intubation by Macintosh laryngoscope made by Riester company of Germany, after induction of anesthesia.

Category
Treatment - Devices

3

Description
Intubation by glidescope made by Verathon® Medical (Canada) ULC, after induction of anesthesia.

Category
Treatment - Devices

Recruitment centers

1

Recruitment center
Name of recruitment center
Ṡhafa Hospital
Full name of responsible person
Zahra Asskari
Street address
Shafa Hospital, Shafa Street
City
Kerman

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice Chancellor for research, Kerman University of Medical Sciences
Full name of responsible person
Fatemeh Hassani
Street address
Tahmasbabad Square, Ebnesina Street
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Kerman
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, Kerman 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
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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