

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Evaluation of quality of recovery after general anesthesia with isoflurane compared with propofol in abdominal hysterectomy

Protocol summary

Study aim

Evaluation of quality of recovery after general anesthesia by comparison between Isoflurane inhaled anesthetic and propofol intravenous anesthetic for abdominal hysterectomy

Design

80 female patients 30 to 65 years old based on randomized block and 20 blocks separated in 2 groups. Two arm parallel groups randomized trial with single blind, phase 3 will be done.

Settings and conduct

80 female patients candidate for abdominal hysterectomy referred to hospitals of Babol university; selected based on inclusion and exclusion criteria, divided according to randomized approach into two groups receiving Propofol or Isoflurane

Participants/Inclusion and exclusion criteria

Inclusion of females 30- 65 years old with American Society Anesthesiologist(ASA) class 1 and 2 Exclusion of patients with Body Mass Index (BMI) more than 30 kg/m² /Difficult airway/Psychotic disorders

Intervention groups

In one group patients receive inhaled Isoflurane and another group receive intravenous Propofol

Main outcome variables

quality of recovery, post operative pain, post operative nausea and vomiting

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20110409006148N5**

Registration date: **2020-07-12, 1399/04/22**

Registration timing: **registered_while_recruiting**

Last update: **2020-07-12, 1399/04/22**

Update count: **0**

Registration date

2020-07-12, 1399/04/22

Registrant information

Name

Hakimeh Alreza Amiri

Name of organization / entity

Babol University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 11 1223 8296

Email address

halereza@mubabol.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-05-21, 1399/03/01

Expected recruitment end date

2021-01-20, 1399/11/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of quality of recovery after general anesthesia with isoflurane compared with propofol in abdominal hysterectomy

Public title

Evaluation of quality of recovery after general anesthesia with isoflurane compared with propofol in abdominal hysterectomy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

80 female patients 30 to 65 years old with 1 and 2 stages of health based on American Society of Anesthesiologists(ASA) who are candidates for abdominal hysterectomy

Exclusion criteria:

Body Mass Index more than 30 kg/m2
Difficult airway
Psychotic disorders

Age

From **30 years** old to **65 years** old

Gender

Female

Phase

3

Groups that have been masked

- Participant

Sample size

Target sample size: **80**

Randomization (investigator's opinion)

Randomized

Randomization description

Randomized block/block size 4/20 blocks divided in two groups(Propofol- Isoflurane)

Blinding (investigator's opinion)

Single blinded

Blinding description

80 patients eligible for abdominal hysterectomy based on randomized to two arms for receiving anesthetic drugs . In one arm patients receive propofol and in the other arm they receive isoflurane

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Babol University of Medical Science

Street address

Arike ariyayi building, Basij19, Shahid beheshti street, Babol, Mazandaran, Iran

City

Babol

Province

Mazandaran

Postal code

4715844315

Approval date

2020-04-07, 1399/01/19

Ethics committee reference number

IR.MUBABOL.REC.1399.018

Health conditions studied

1

Description of health condition studied

Quality of recovery in abdominal hysterectomy

ICD-10 code

T88.59

ICD-10 code description

Other complications of anesthesia

Primary outcomes

1

Description

Quality of recovery

Timepoint

24 hours before surgery-24 hours after surgery-48 hours after surgery

Method of measurement

Questionnaire of quality of recovery-15

2

Description

Post operative pain

Timepoint

24 hours before surgery-24 hours after surgery-48 hours after surgery

Method of measurement

Questionnaire of quality of recovery-15

3

Description

Nausea and vomiting

Timepoint

24 hours before surgery-24 hours after surgery-48 hours after surgery

Method of measurement

Questionnaire of quality of recovery-15

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: 40 patients receive intravenous Propofol with induction dose of 2 mg/kg and 100 mcg/kg/min as an infusion dose produced by darmanyab pharmaceutical factory

Category

Treatment - Drugs

2

Description

Control group: 40 patients receive intravenous Propofol with induction dose of 2 mg/kg and volatile Isoflurane with 1 MAC as an infusion dose produced by BAXTER Co.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Rohani hospital

Full name of responsible person

Seyedeh Golnaz Ziaei

Street address

Rohani hospital, Keshavarz avenue, University Square, Babol, Iran

City

Babol

Province

Mazandaran

Postal code

4717647745

Phone

+98 11 3223 8301

Email

ziaeigolnaz@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Babol University of Medical Sciences

Full name of responsible person

Dr. Reza Ghadimi

Street address

Babol university of medical science, Ganjafruz avenue, Babol, Mazandaran, Iran

City

Babol

Province

Mazandaran

Postal code

4717647754

Phone

+98 11 3219 7667

Fax

+98 11 3219 0181

Email

rezaghadimi@yahoo.com

Web page address

<http://www.mubabol.ac.ir>

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Babol 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

Babol University of Medical Sciences

Full name of responsible person

Seyedeh Golnaz Ziaei

Position

Resident of anesthesia

Latest degree

Medical doctor

Other areas of specialty/work

Anesthesiology

Street address

Arikeh ariyayi building, Basij19, Shahid beheshti avenue, Babol, Mazandaran, Iran

City

Babol

Province

Mazandaran

Postal code

4715844315

Phone

+98 11 3230 1552

Email

ziaeigolnaz@gmail.com

Person responsible for scientific inquiries

Contact

Name of organization / entity

Babol University of Medical Sciences

Full name of responsible person

Seyedeh Golnaz Ziaei

Position

Resident of anesthesia

Latest degree

Medical doctor

Other areas of specialty/work

Anesthesiology

Street address

Arikeh ariyayi, Basij19, Shahid beheshti avenue, Babol, Mazandaran, Iran

City

Babol

Province

Mazandaran
Postal code
4715844315
Phone
+98 11 3230 1552
Email
ziaeigolnaz@gmail.com

Person responsible for updating data

Contact

Name of organization / entity
Babol University of Medical Sciences
Full name of responsible person
Seyedeh Golnaz Ziaei
Position
Resident of anesthesia
Latest degree
Medical doctor
Other areas of specialty/work
Anesthesiology
Street address
Arikeh ariyayi, Basij19, Shahid beheshti avenue,
Babol, Mazandaran, Iran
City
Babol
Province
Mazandaran
Postal code

4715844315
Phone
+98 11 3230 1552
Email
ziaeigolnaz@gmail.com

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