

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Jul 2026

Advantages of doxapram for post-anesthesia recovery and outcomes in bariatric surgery patients.

Protocol summary

Summary

The benefits of doxapram on recovery from anesthesia and its consequences in patients with the bariatric surgery. Due to the increasing rate of obesity and bariatric surgery results in a significant increase in acts of witness and of course obstructive sleep apnea is a common cause of morbidity, especially in these acts. The study population of 26 patients with morbid obesity Shahid Modares Hospital who are surgical candidate's sleeve. Patients randomly into two groups of equal size doxapram and placebo control group (distilled water) before extubation. Patients were divided into groups of (doxapram or placebo) Blind, but the anesthesiologist in the operating room aware of the drug during the operation, including electrocardiography, noninvasive blood pressure, pulse oximetry, Capnography, respiratory gas analysis, temperature monitoring, monitoring of neuromuscular relaxants (TOF) will be. After receiving doxapram and Respiratory Rate Tidal volume measured every two minutes and extubation time and the patient train-of-four monitor and respond to voice commands and hand movement and eye opening and responding to verbal commands and ETCO₂ will be filled in the questionnaire. Inclusion criteria: patients with ASA Class I, II; body mass index over 45, patients with a history of OSA; smokers; the patient consent to participate in the plan. Exclusion criteria: use of drugs, cardiac diseases, the cause of longer than 3 hours surgery or surgical complications occur.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017060712203N9**

Registration date: **2017-08-15, 1396/05/24**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-08-15, 1396/05/24

Registrant information

Name

Niloufar Massoudi

Name of organization / entity

Shahid Beheshti University of Medical Science

Country

Iran (Islamic Republic of)

Phone

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Email address

nmasoudi@qums.ac.ir

Recruitment status

Recruitment complete

Funding source

Instructor Development Center Research Shahid Modarres Hospital, Shahid Beheshti University of Medical Sciences

Expected recruitment start date

2017-06-22, 1396/04/01

Expected recruitment end date

2018-03-21, 1397/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Advantages of doxapram for post-anesthesia recovery and outcomes in bariatric surgery patients.

Public title

Advantages of doxapram for post-anesthesia recovery and outcomes in bariatric surgery patients.

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: patients with ASA Class I, II; body mass index over 45; patients with a history of OSA; smokers; the patient consent to participate in the plan. Exclusion criteria: use of drugs; cardiac diseases; the cause of longer than 3 hours surgery or surgical complications occur.

Age

From **18 years** old to **40 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **26**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Single 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 Shahid Bheshti University of Medical Sciences

Street address

Shahid Bheshti University of Medical Sciences, Arabi Street, Velenjak

City

Tehran

Postal code**Approval date**

2017-08-06, 1396/05/15

Ethics committee reference number

IR.SBMU.RETECH.REC.1396.236

Health conditions studied**1****Description of health condition studied**

Morbid obesity

ICD-10 code

E66.8

ICD-10 code description

Morbid obesity

Primary outcomes**1****Description**

The timing of the return of spontaneous breathing after the injection reverse dose in doxapram group and the control group

Timepoint

since revers dose of muscular blocker until spontaneous respiration

Method of measurement

With the clock

Secondary outcomes**1****Description**

train-of-four monitor to determine the recovery time after the reverse dose doxapram group and the control group

Timepoint

Since reversal dose of muscular blocker until return muscular blockage

Method of measurement

With the train-of-four monitor

2**Description**

End Tidal Co2 determine the reverse dose doxapram group and the control group in 5 minutes

Timepoint

Every 5 minute

Method of measurement

Capnographpy

Intervention groups**1****Description**

Intervention: Doxapram

Category

Treatment - Drugs

2**Description**

control: Normal Salin

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Modares Hospital

Full name of responsible person

Nilofar Massoudi

Street address

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shahid Modarres Hospital, Shahid Beheshti University of Medical Sciences

Full name of responsible person

Nilofar Massoudi

Street address

Modarres Hospital, Sa'adat Abad, Tehran

City

Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Shahid Modarres Hospital, Shahid Beheshti 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

Name of organization / entity

Shahid beheshti University of Medical Sciences

Full name of responsible person

Nilofar Massoudi

Position

PhD, Assistant professor

Other areas of specialty/work

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Person responsible for scientific inquiries

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Name of organization / entity

Department of Anesthesiology, Clinical Research and Development Unit at Shahid Modarres Hospital, Sh

Full name of responsible person

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Web page address

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