

Clinical Trial Protocol

Iranian Registry of Clinical Trials

14 Jul 2026

Investigating the effect of oral Melatonin premedication on the quality of sedation and pain scale in Cataract surgery

Protocol summary

Study aim

Investigating the effect of oral Melatonin premedication on the quality of sedation and pain scale in Cataract surgery

Design

A clinical trial with a control group, with parallel groups, three blinded, randomized, phase 2 on 40 patients. random allocation software will be used for randomization.

Settings and conduct

This is a triple-blind randomized clinical trial that will be performed on 40 Cataract candidate patients at Feyz Hospital in Isfahan. After the approval of the university ethics committee, if they have inclusion criteria, patients (or their guardians) will be informed about the study and if they consent, they will enter the groups with random assignment. In each group, the desired intervention is applied and the patient's clinical symptoms are recorded. The clinical caregiver evaluating the symptoms is different from the person performing the intervention and does not know the type of intervention. Patients, despite being studied, are not aware of the type of intervention applied and therefore are all blind. Data analysts also do not know the type of intervention applied in each group and are blind.

Participants/Inclusion and exclusion criteria

Inclusion criteria: over 18 years old, candidate for cataract surgery, and informed consent to enter the study. Non-inclusion criteria: suffering from mental illness, deafness, diabetes, allergies, and obesity

Intervention groups

Intervention group A: In this group, patients receive a sublingual tablet containing 3 mg of melatonin 1 hour before surgery. Intervention group B: In this group, patients receive a placebo pill (which is similar to melatonin in terms of color, smell, and appearance) 1 hour before the operation.

Main outcome variables

intensity of pain

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20160307026950N45**

Registration date: **2022-09-10, 1401/06/19**

Registration timing: **prospective**

Last update: **2022-09-10, 1401/06/19**

Update count: **0**

Registration date

2022-09-10, 1401/06/19

Registrant information

Name

Behzad Nazemroaya

Name of organization / entity

Isfahan University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-09-23, 1401/07/01

Expected recruitment end date

2022-11-22, 1401/09/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Investigating the effect of oral Melatonin premedication on the quality of sedation and pain scale in Cataract surgery

Public title

Investigating the sedative effect of Melatonin in Cataract surgery

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria:

Age over 18 ASA class I, II and III Candidate for Cataract surgery Informed consent for study

Exclusion criteria:

Patients with a history of obstructive sleep apnea
Patients treated with psychiatric drugs
Patients with autoimmune diseases, diabetes, nystagmus, leukemia and deafness
Allergy to the drugs used
Use of painkillers in the past week
BMI index greater than 35

Age

From **18 years** old

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Outcome assessor
- Data analyser

Sample size

Target sample size: **40**

Randomization (investigator's opinion)

Randomized

Randomization description

Randomization will be done by the simple method in which each patient will be assigned a code using a random number table (Random allocation software) and Patients fall into one of two groups depending on whether these codes are even or odd. This continues until the number of patients in both groups reaches the required number.

Blinding (investigator's opinion)

Triple blinded

Blinding description

This is a triple-blind clinical trial; In this way, before obtaining consent, patients are informed about the study but do not know which group they will be in and therefore are blind. Also, the researcher who records the patient's symptoms is different from the nurse who injects the drug and does not know the type of drug and is blind. Analysts who analyze the data collected during the study also do not know the type of intervention applied in each group and are blind.

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee in Biomedical Research, Isfahan University of Medical Sciences

Street address

Hezar Jarib

City

Isfahan

Province

Isfahan

Postal code

8174673461

Approval date

2020-11-30, 1399/09/10

Ethics committee reference number

IR.MUI.MED.REC.1399.768

Health conditions studied

1

Description of health condition studied

Cataract

ICD-10 code

H25

ICD-10 code description

Age-related cataract

Primary outcomes

1

Description

intensity of pain

Timepoint

before the intervention, before the operation, after anesthesia and then every 10 minutes until the end of recovery

Method of measurement

Behavioral Pain Scale questionnaire

Secondary outcomes

1

Description

Heart Rate

Timepoint

before the intervention, before the operation, after anesthesia and then every 10 minutes until the end of recovery

Method of measurement

ECG monitoring

2

Description

Blood Pressure

Timepoint

before the intervention, before the operation, after anesthesia and then every 10 minutes until the end of recovery

Method of measurement

Sphygmomanometer

Intervention groups

1

Description

Intervention group: In this group, patients receive a sublingual tablet containing 3 mg of Melatonin manufactured by Norm Life 1 hour before surgery. After being placed on the surgical bed, he is subjected to cardiac and respiratory monitoring, an intravenous line is established for drug injection, as well as the measurement criteria are explained to the patient. Then the patient is put under anesthesia and the operation begins. The patient's symptoms are measured and recorded until the end of the operation and then during recovery.

Category

Prevention

2

Description

Control group: In this group, patients receive a placebo sublingual tablet 1 hour before surgery. After being placed on the surgical bed, he is subjected to cardiac and respiratory monitoring, and an intravenous line is established for drug injection, as well as the measurement criteria are explained to the patient. Then the patient is put under anesthesia and the operation begins. The patient's symptoms are measured and recorded until the end of the operation and then during recovery.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Feyz Hospital

Full name of responsible person

Behzad Nazem Roaya

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

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Full name of responsible person

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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Esfahan 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

Esfahan University of Medical Sciences

Full name of responsible person

Shahrzad Andalib

Position

Anesthesiology resident

Latest degree

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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