

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

The impact of listening to the Quran during general anesthesia on recovery outcomes following vitrectomy surgery.

Protocol summary

Study aim

Determining and comparing the effect of Quran recitation during general anesthesia on the patient's condition in recovery after vitrectomy.

Design

A clinical trial with a control group with parallel groups, double-blind, randomized using a random numbers table, in two groups of 25 people.

Settings and conduct

This study will be performed on ASA I, II patients who will undergo vitrectomy. After obtaining consent, all Muslim patients over the age of 18 who will refer to the ophthalmology operating room of Imam Hossein Health Center in Tehran for a vitrectomy in the second 5 months of 1400 AH will be included in the study. After general anesthesia, headphones will be placed for all patients. An anesthesia technician will randomly select one of the group files for the patient with the help of a coin toss.

Participants/Inclusion and exclusion criteria

Inclusion criteria: informed consent, Muslim patients, older than 18 years, ASA I, II. Exclusion criteria: Patients with hearing impairment; Mental problems; Continued use of sedatives or analgesics; People addicted to alcohol or illicit drugs.

Intervention groups

Intervention group: using the recitation of the Holy Quran using Surah Al-Hamad and Surah Al-Ma'ida. Control group: using white sound (a type of sound that is created by combining sounds with different frequencies. In different studies, this sound is used to match groups under music therapy as a control group).

Main outcome variables

Blood pressure, heart rate, bispectral index (BIS) of the patient during surgery, the amount of propofol taken at the end of surgery, pain, nausea, vomiting.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20120910010800N2**

Registration date: **2021-10-01, 1400/07/09**

Registration timing: **registered_while_recruiting**

Last update: **2021-10-01, 1400/07/09**

Update count: **0**

Registration date

2021-10-01, 1400/07/09

Registrant information

Name

Dariush Abtahi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 2263 2611

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-09-23, 1400/07/01

Expected recruitment end date

2022-02-20, 1400/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The impact of listening to the Quran during general anesthesia on recovery outcomes following vitrectomy surgery.

Public title

The impact of listening to the Quran during general anesthesia on recovery outcomes following vitrectomy surgery.

Purpose

Basic science

Inclusion/Exclusion criteria

Inclusion criteria:

Muslim over than 18 years old Consent to the study

Exclusion criteria:

Impaired hearing Drug abuse Sedative drug use Mental disorder

Age

From 18 years old

Gender

Both

Phase

N/A

Groups that have been masked

- Participant
- Care provider
- Investigator
- Outcome assessor

Sample size

Target sample size: 50

Randomization (investigator's opinion)

Randomized

Randomization description

Patients will be selected among individuals referring to the operating room of Imam Hossein (AS) hospital for vitrectomy surgery by simple randomization method using a coin toss. In such a way that the selection of the case is done in the case of heads and the selection of control is done in the case of tails.

Blinding (investigator's opinion)

Double blinded

Blinding description

Before performing anesthesia, the anesthesia technician will select one of the audio files of the Quran (group Q) or white sound (group W) for the patient without the anesthesiologist's and the patient's awareness. After general anesthesia, headphones will be placed for all patients. The sound will be played for patients to such an extent that it will not be audible to others in the environment. The headphones will remain in place until the end of the surgery, and when the patient will wake up, the sound stops, and the headphones will be removed.

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Research Ethics Committees of Vice-Chancellor in Research Affairs - Shahid Beheshti University of Me

Street address

Emam Hossein Hospital, Shahid Madani St.

City

Tehran

Province

Tehran

Postal code

1617763141

Approval date

2021-06-28, 1400/04/07

Ethics committee reference number

IR.SBMU.RETECH.REC.1400.207

Health conditions studied

1

Description of health condition studied

Vitrectomy surgery

ICD-10 code

Z98.89

ICD-10 code description

Other specified postprocedural states

Primary outcomes

1

Description

Propofol consumption

Timepoint

End of surgery

Method of measurement

A standard anesthesia sheet is used in the patient file to determine the total amount of propofol used in mg. The patient's propofol consumption at the beginning of anesthesia and then it is recorded in the file as standard and at the end the total amount is added together.

Secondary outcomes

1

Description

Post-operative nausea and vomiting

Timepoint

In recovery room

Method of measurement

Questionnaire

Intervention groups

1

Description

Case group: After general anesthesia, headphones will

be placed for all patients and the anesthesiologist will select the audio files of the Quran ("Surah Ma'idah" and "Surah Hamad") through headphones for the patient. The volume will be pre-checked using an audio sample for patient comfort and in any case will be set below 85 decibels (to prevent ear damage) according to the WHO recommendation. The headphones will remain in place until the end of surgery, and when the patient will begin to wake up, the sound will be stopped playing and the headphones removed.

Category

Treatment - Other

2

Description

Control group: The anesthesiologist will select the white sound (group W) for the patient. White sound is a type of sound that is produced by combining sounds with different frequencies. If you combine all the imaginable sounds that a human being can hear, a white sound will be created. The adjective white has been chosen to describe this type of sound because it has been used to describe white light. Various studies have used this sound to identify groups under music therapy as a control group.

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Hospital Emam Hossein

Full name of responsible person

Dariush Abtahi

Street address

Shahid Madani St

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https://www.ehmc.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shahid Beheshti University of Medical Sciences

Full name of responsible person

Afshhin Zarghi

Street address

Tehran Province, Tehran, Velenjak, 7th Floor, Bldg No.2 SBUMS, Arabi Ave

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Email

Intl_office@sbmu.ac.ir

Web page address

https://en.sbmu.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Shahid Beheshti University of Medical Sciences

Proportion provided by this source

1

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

Shahid Beheshti University of Medical Sciences

Full name of responsible person

Dariush Abtahi

Position

Assistant Professor

Latest degree

Specialist

Other areas of specialty/work

Anesthesiology

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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Not applicable

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Not applicable

Data Dictionary

Not applicable

Title and more details about the data/document

All data is potentially shareable after unidentified individuals.

When the data will become available and for how long

One year after the publication of the article.

To whom data/document is available

All jobs

Under which criteria data/document could be used

All non-personal patient information (anonymously) can be accessed by contacting the responsible author.

From where data/document is obtainable

email to: drdariushabtahi@yahoo.com

What processes are involved for a request to access data/document

Sending email and review by the responsible author.

Comments