Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 2026

Investigating the effect of permitted music on reducing anxiety, heart rate and blood pressure in patients undergoing mandibular third molar tooth surgery in the specialized department of the faculty of dentistry and special clinic in Isfahan in 1403

Protocol summary

Study aim
Determining the effect of favorite music on reducing anxiety, heart rate and blood pressure in patients undergoing dental surgery

Design
This study is a randomized controlled clinical trial conducted on patients aged 20-35 years who are candidates for dental surgery in 1403 AH at Isfahan Dental School. Among the eligible patients, 120 patients will be included in the study. Patients will be divided into two groups of 60 using random allocation software: the intervention group will listen to their favorite music with hands-free headphones, and the control group will receive standard care.

Settings and conduct
The statistical population includes all patients who are candidates for dental surgery and have referred to the specialized surgical department of the School of Dentistry and the Isfahan Special Clinic. Before surgery, patients complete the MDAS questionnaire and their blood pressure and heart rate are recorded. During surgery, music is played for the intervention group and their blood pressure and heart rate are recorded. After surgery, patients complete the MDAS questionnaire again and their blood pressure and heart rate are recorded, and satisfaction is assessed with a VAS scale.

Participants/Inclusion and exclusion criteria
Entry requirements: Patients between 20 and 35 years of age who have referred to the specialized surgery department of Isfahan Faculty of Dentistry and Special Clinic for dental surgery and do not have any specific diseases. Conditions of non-entry: failure to answer more than 20% of the questions in the questionnaire Incomplete surgery for various reasons Patients with unusual fear of dentistry (phobia) Prolonged surgery

Intervention groups
Using patients' favorite music to check the effect on reducing anxiety, blood pressure and heart rate

Main outcome variables
Playing music during dental surgery reduces anxiety levels and increases patient satisfaction.

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20250217064756N1**
Registration date: **2025-04-20, 1404/01/31**
Registration timing: **registered_while_recruiting**

Last update: **2025-04-20, 1404/01/31**
Update count: **0**

Registration date
2025-04-20, 1404/01/31

Registrant information

Name
mohamadhossein manouchehri naeini

Name of organization / entity

Country
Iran (Islamic Republic of)

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+98 31 3792 5554

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mh.manouchehri@gmail.com

Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2025-04-14, 1404/01/25

Expected recruitment end date
2025-06-20, 1404/03/30
Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Investigating the effect of permitted music on reducing anxiety, heart rate and blood pressure in patients undergoing mandibular third molar tooth surgery in the specialized department of the faculty of dentistry and special clinic in Isfahan in 1403

Public title
Investigating the effect of permitted music on reducing anxiety, heart rate and blood pressure in patients undergoing mandibular third molar tooth surgery in the specialized department of the faculty of dentistry and special clinic in Isfahan in 1403
Purpose
Health service research
Inclusion/Exclusion criteria
Inclusion criteria:
Patients referred to the dental school who do not have specific diseases
Exclusion criteria:
Patients with unusual fear of dentistry (phobia) Incomplete surgery for various reasons Prolonged surgery Failure to answer more than 20% of the questionnaire questions
Age
From **20 years** old to **35 years** old
Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **120**
Randomization (investigator's opinion)
Randomized
Randomization description
Patients will be divided into two groups of 60 using random allocation software
Blinding (investigator's opinion)
Not blinded
Blinding description
Placebo
Not used
Assignment
Single
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Research Ethics Committees of Schools of Dentistry, Health Sciences and Advanced Medical Technologie
Street address
Hazar Jarib Street, Isfahan University of Medical Sciences, Faculty of Dentistry
City
Isfahan
Province
Isfehan
Postal code
8174673461
Approval date
2025-02-03, 1403/11/15
Ethics committee reference number
IR.MUI.DHMT.REC.1403.204

Health conditions studied

1

Description of health condition studied
Investigating the effect of permitted music on reducing anxiety, heart rate and blood pressure in patients undergoing mandibular third molar surgery
ICD-10 code
ICD-10 code description

Primary outcomes

1

Description
The level of anxiety
Timepoint
Before and after surgery
Method of measurement
MDAS questionnaire

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: Playing the patient's favorite music playlist
Category
Other

2

Description
Control group: Participants in this group will receive

standard care, which includes anesthesia and verbal sedation from the dental team.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Faculty of Dentistry, Isfahan

Full name of responsible person

Seyyed Mohammad Razavi

Street address

Hazar Jarib Street, Isfahan University of Medical Sciences, Faculty of Dentistry

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Esfahan University of Medical Sciences

Full name of responsible person

Gholamreza Askari

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Hazar Jarib Street, Aluk Medical University of Isfahan, Faculty of Dentistry

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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

Mohammad Hossein Manouchehri

Position

Associate Professor

Latest degree

Specialist

Other areas of specialty/work

Dentistry

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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)
No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD
No more information available.

Study Protocol
No - There is not a plan to make this available

Statistical Analysis Plan
No - There is not a plan to make this available

Informed Consent Form
No - There is not a plan to make this available

Clinical Study Report
No - There is not a plan to make this available

Analytic Code
No - There is not a plan to make this available

Data Dictionary
No - There is not a plan to make this available