

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jun 2026

Effect of music therapy on pain and anxiety in patients undergoing root canal treatment

Protocol summary

Summary

For most of patients dental environment is always an stressful place, because of some reasons such as fear of anesthesia and a history of past painful treatments .the purpose of this study is to explore the Effect of music therapy on pain and anxiety in patients undergoing root canal treatment in dental clinic. method and materials: 60 patients who came to a dental clinic for endodontic treatment were selected for this study. The subjects were randomly assigned to the music intervention and the control group.not having hearing defects and any other systemic problems and not using any sedative or analgesic drugs are the most important inclusion criteria.Subjects in the music group listened to selected music using headphones throughout the root canal treatment procedure but the control group subjects didn't . the subjects' heart rate, blood pressure were measured before the study, after anesthesia, during and end of the root canal treatment procedure .Patients completed the anxiety questionnaire both before and after the procedure and reported pain severity.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201205209805N1**

Registration date: **2012-05-30, 1391/03/10**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2012-05-30, 1391/03/10

Registrant information

Name

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Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Dental Research Center, School of Dentistry, Isfahan University of Medical Science

Expected recruitment start date

2011-11-22, 1390/09/01

Expected recruitment end date

2012-02-19, 1390/11/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of music therapy on pain and anxiety in patients undergoing root canal treatment

Public title

Effect of music therapy on anxiety and pain

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion criteria: patient who has a tooth with endodontic treatment need; agree to participate in this investigation; no hearing problems; without heart problem and any other systemic problems such as immune suppressive diseases; non-pregnant females; ability to endure local anesthesia ; not using any

sedative or analgesic drugs; without any Psychiatric Disorders. exclusion criteria:patient who refuse to continuing the treatment; patient who need complicated treatment during the endodontic procedure; having systematic problems dusing the treatment; endodontic procedure more than one hour

Age

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

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

dental faculty ,Isfahan University Of medical science

Street address

School of Dentistry, Isfahan University of Medical Science, Hezar Jerib Street, Isfahan, Iran

City

Isfahan

Postal code

Approval date

2011-10-17, 1390/07/25

Ethics committee reference number

290249

Health conditions studied

1

Description of health condition studied

anxiety

ICD-10 code

ICD-10 code description

2

Description of health condition studied

pain

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

pain

Timepoint

at the end of procedure

Method of measurement

visual analoge scale

2

Description

anxiety

Timepoint

before and after procedure

Method of measurement

questionnaire

Secondary outcomes

1

Description

systolic blood pressure

Timepoint

before procedure,after anesthesia,during and after prosedure

Method of measurement

Arm-type blood pressure monitor

2

Description

diastolic blood pressure

Timepoint

before procedure,after anesthesia,during and after prosedure

Method of measurement

Arm-type blood pressure monitor

3

Description

heart rate

Timepoint

before procedure,after anesthesia,during and after prosedure

Method of measurement

Arm-type blood pressure monitor

Intervention groups

1

Description

patients in intervention group listened to selected music using headphones throughout the root canal treatment procedure.

Category

Treatment - Other

2

Description

patients in control group just using headphones without listening to any type of music throughout the root canal treatment procedure.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Afzal dental clinic

Full name of responsible person

Dr.Seyyed Hamidreza Razavian

Street address

Soroush Street,Ahmadabad square,Isfahan

City

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Isfahan university of medical science

Full name of responsible person

Dr.Omid Savvabi

Street address

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Isfahan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Isfahan university of medical science

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

dental faculty

Full name of responsible person

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Position

endodontist,Assistant Professor of Endodontics

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Isfahan University of medical science

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Fax**Email****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*