Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 2026

The Effect of Holy Qur’an Recitation on the inflammatory factors in Hemodialysis Patients

Protocol summary

Study aim
Effect of the Holy Qur’an Recitation on the inflammatory factors in hemodialysis patients

Design
Controlled randomized clinical trial, with parallel groups, without blindness.

Settings and conduct
This is a randomized controlled clinical trial study in which two groups of intervention (receiving holy qur'an recitation) and control (silent mode) will be done on 50 hemodialysis patients referring to Kowsar hospital affiliated to Semnan University of Medical Sciences.

Participants/Inclusion and exclusion criteria
Inclusion criteria: Willingness to listen to the Holly Quran; at least six months of treatment with hemodialysis; having hemodynamic stability; no history of recent infection (recent 3 months); obtain Score 10 for the anxiety and 7 for the depression items of the Hospital Anxiety and Depression Scale. Exclusion criteria: Hearing impairment; left handed; reciter of quran; Arabic speaking patients

Intervention groups
Intervention group: Patients who receive the Quran voice (Yasin Surah) for a month, three times per week for 20 minutes (immediately after connecting the patient to the dialysis machine and hemodynamic stability) via headphones. Control group: Patients who receive only headphones in silent mode (immediately after connecting the patient to the dialysis machine and hemodynamic stability) for one month, three times a week for 20 minutes.

Main outcome variables
Inflammatory factors (IL6, ESR, CRP)

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20120109008665N9**
Registration date: **2019-11-04, 1398/08/13**
Registration timing: **prospective**

Last update: **2019-11-04, 1398/08/13**
Update count: **0**

Registration date
2019-11-04, 1398/08/13

Registrant information

Name
Hassan Babamohamadi

Name of organization / entity
Semnan University of Medical Sciences

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Iran (Islamic Republic of)

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Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2019-11-22, 1398/09/01

Expected recruitment end date
2020-01-21, 1398/11/01

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
The Effect of Holy Qur’an Recitation on the inflammatory factors in Hemodialysis Patients

Public title

The Effect of Holy Qur’an Recitation on the inflammatory factors

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Willingness to listen to the Holly Quran Consent to participate in the study Age range 20 to 65 years At least six months of treatment with hemodialysis Consciousness having hemodynamic stability No history of recent infection (recent 3 months) The lack of serious psychiatric problems Obtain Score 10 for the anxiety and 7 for the depression items of the Hospital Anxiety and Depression Scale (HADS) No history of long-term use of corticosteroids and immunosuppressive drugs

Exclusion criteria:

left handed Hearing impairment Reciter of Quran Arabic speaking patients

Age

From **20 years** old to **65 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Randomized

Randomization description

Assignment of samples to two groups (intervention or control) will be done randomly using random blocks method. 25 blocks with 2 cases in each are created and every time randomly a block will be selected. In this method, A: represent intervention group; B: control.

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

Ethics committee of Semnan University of Medical Sciences

Street address

Semnan University of Medical Sciences (SEMUMS), Vice Chancellor of Research and Technology , Bassij Blvd., Semnan, Iran

City

Semnan

Province

Semnan

Postal code

3519899951

Approval date

2019-09-17, 1398/06/26

Ethics committee reference number

IR.SEMUMS.REC.1398.154

Health conditions studied

1

Description of health condition studied

Chronic Kidney Disease

ICD-10 code

N18.5

ICD-10 code description

Chronic kidney disease, stage 5

Primary outcomes

1

Description

Level of the inflammatory factor (IL6)

Timepoint

Before intervention and one month later

Method of measurement

Using an ELISA kit for measuring human IL-6, product of Diaclone France

2

Description

Level of the inflammatory factor (Erythrocyte Sedimentation Rate)

Timepoint

Before intervention and one month later

Method of measurement

ESR measurement using ESR tube containing sodium citrate solution, Product of Teb Shahr Company

3

Description

Level of the inflammatory factor (C Reactive Protein)

Timepoint

Before intervention and one month later

Method of measurement

CRP measurement, using ELISA, Using the XL Selectra device, a product from the Netherlands

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: Music therapy intervention on the experimental group are done according to the prepared protocol based on similar studies. The aim of music therapy in this study is application of relaxing and mystical of Holy Quran, Yasin Surah with voice of Shateri Professor (Tartil), that is selected by consulting by a clergyman. This surah is playback 3 times in week, and 20 minutes every session (immediately after connecting the patient to the dialysis machine and hemodynamic stability) through mp3 player and a headphone within a month.

Category
Treatment - Other

2

Description
Control group: for control group, no specific intervention will be applied and they receive only routine cares along with the headphone in silent mode.This procedure is performed 3 times in week, and 20 minutes every session (immediately after connecting the patient to the dialysis machine and hemodynamic stability) through mp3 player and a headphone within a month.

Category
Other

Recruitment centers

1

Recruitment center

Name of recruitment center
Kosar hospital affiliated to Semnan University of Medical Sciences

Full name of responsible person
Hassan Babamohamadi

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Kowsar Hospital; Amin Blv; Golestan town; Semnan

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Semnan University of Medical Sciences

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
Semnan 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
Semnan University of Medical Sciences

Full name of responsible person
Hassan Babamohamadi

Position
Associate professor

Latest degree
Ph.D.

Other areas of specialty/work
Nursery

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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
Not applicable
Informed Consent Form
Undecided - It is not yet known if there will be a plan to make this available
Clinical Study Report
Not applicable
Analytic Code
Not applicable
Data Dictionary
Not applicable