Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Effect of intravenous vitamin c in decreasing ferritin level in patients with ESRD under dialysis

Protocol summary

Study aim

Evaluation of the effect of intravenous vitamin C c in decreasing ferritin level in patients with ESRD under dialysis in Velayat hospital in Qazvin province in 2020

Design

This study was performed on 32 hemodialysis patients with inclusion criteria. Patients were randomly divided into intervention groups(A,N=16) and control groups(B,N=16) using Winpepi software.the study will be triple-blind.

Settings and conduct

This study is a clinical trial with the aim of determining the effect of intravenous vitamin C in decreasing ferritin level in patients with ESRD under dialysis in velayat hospital in Qazvin province in 2020.This study was performed on 32 patients with hemodialysis and inclusion criteria.) And control B (N = 16) are divided. The study will be Triple-blind

Participants/Inclusion and exclusion criteria

Inclusion criteria: Patients undergoing hemodialysis with iron deficiency anemia with Hb <11 g / dl and serum ferritin level (> 500 ng / ml) and transferrin saturation (TSAT ≤ 20%) Exclusion criteria: 1-Patients with infection. 2- Patients with inflammation. 3- Patients with a history of receiving venoffer in the last 2 months. 4- Patients who refuse to participate in the study. 5- Patients who do not seek treatment for any reason.

Intervention groups

Patients were randomly divided into intervention group A and control group B. Group A intravenous ascorbic acid 500 mg three times a week after each dialysis session for 3 months with erythropoietin and group B as much distilled water as placebo three times a week after each hemodialysis Erythropoietin IV is given by a colleague for 3 months.

Main outcome variables

Serum ferritin level,Hemoglobin,TIBC(Total Iron binding capacity),Transferrin saturation

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20191112045426N1**
Registration date: **2020-01-07, 1398/10/17**
Registration timing: **prospective**

Last update: **2020-01-07, 1398/10/17**
Update count: **0**

Registration date

2020-01-07, 1398/10/17

Registrant information

Name

Mohammad Taheri

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

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Email address

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-04-11, 1399/01/23

Expected recruitment end date

2020-05-12, 1399/02/23

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of intravenous vitamin c in decreasing ferritin level in patients with ESRD under dialysis

Public title
Effect of intravenous vitamin c in decreasing ferritin level in patients with ESRD under dialysis
Purpose
Treatment
Inclusion/Exclusion criteria
Inclusion criteria:
Patients undergoing hemodialysis with iron deficiency anemia with Hb <11 g / dl and serum ferritin level (> 500 ng / ml) and transferrin saturation (TSAT ≤ 20%)
Exclusion criteria:
Age
No age limit
Gender
Both

Phase
3
Groups that have been masked

- Participant
- Care provider
- Investigator
- Outcome assessor
- Data analyser
- Data and Safety Monitoring Board

Sample size
Target sample size: **32**
Randomization (investigator's opinion)
Randomized
Randomization description
The sampling is done in an available way. Patients were randomly divided into intervention group A and control B using Winpepi software By a methodologist.
Blinding (investigator's opinion)
Triple blinded
Blinding description
As the intervention prescribed by the researchers is injected by the project executive, in addition to the patients who administer the intervention and evaluate the results, they are also blind to the type of intervention administered, so the study will be a triple-blind study.
Placebo
Used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics committee of Qazvin University of Medical Sciences
Street address
Shahid Beheshti, Ave' 3415613911 Qazvin' IRAN
City
Qazvin
Province
Qazvin
Postal code
3415613911
Approval date
2019-12-30, 1398/10/09
Ethics committee reference number
IR.QUMS.REC.1398.252

Health conditions studied

1

Description of health condition studied
Chronic kidney disease (CKD)
ICD-10 code
D63.1
ICD-10 code description
Anemia in chronic kidney disease

Primary outcomes

1

Description
Age
Timepoint
before intervention
Method of measurement
Form

2

Description
Gender
Timepoint
before intervention
Method of measurement
Form

3

Description
marital status
Timepoint
before intervention
Method of measurement
Form

4

Description
Serum ferritin level
Timepoint
before intervention and after three months
Method of measurement
Paraclinic

5

Description
Hemoglobin
Timepoint
before intervention and after three months
Method of measurement
Paraclinic

6

Description
TIBC(Total Iron binding capacity)
Timepoint
before intervention and after three months
Method of measurement
Paraclinic

7

Description
Transferrin saturation
Timepoint
before intervention and after three months
Method of measurement
Paraclinic

8

Description
Intervention group
Timepoint
before intervention and after three months
Method of measurement
software

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: The intervention group received intravenous ascorbic acid 500 mg three times a week after each dialysis session for 3 months with erythropoietin IV.
Category
Treatment - Drugs

2

Description
Control group: The control group received distilled water as placebo three times a week after each hemodialysis for 3 months and erythropoietin IV.
Category
Placebo

Recruitment centers

1

Recruitment center
Name of recruitment center
بیمارستان ولایت قزوین
Full name of responsible person
Dr Seyed Saeed Farzam
Street address
Taavon Square, 22 Bahman Blvd, Elahieh, Qazvin, Iran
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3419759811
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m.t.a.h.e.r.i@yandex.com
Web page address
http://hosvelayat.qums.ac.ir

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Qazvin University of Medical Sciences
Full name of responsible person
Mohammad Taheri
Street address
Saadat Blv
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3415766858
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Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
No
Title of funding source
researchers
Proportion provided by this source
100
Public or private sector
Private
Domestic or foreign origin
Domestic
Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Persons

Person responsible for general inquiries

Contact

Name of organization / entity
Qazvin University of Medical Sciences

Full name of responsible person
Mohammad Taheri

Position
Medical Student

Latest degree
Medical doctor

Other areas of specialty/work
General Practitioner

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Person responsible for scientific inquiries

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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
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

Title and more details about the data/document
The results of this research will be shared after the end of the research.

When the data will become available and for how long
The results of this research will be shared after the end of the research.

To whom data/document is available
Medical universities will have access to the documentation.

Under which criteria data/document could be used
For use in treating patients

From where data/document is obtainable
Qazvin University of Medical Sciences

What processes are involved for a request to access data/document
Send your request to Qazvin University of Medical Sciences Medical School and it will be answered after

review.

Comments