Clinical Trial Protocol
Iranian Registry of Clinical Trials

19 Sep 2026

Effect of pentoxyphilin for reduce of erythropoietin needs in hemodialysis patiente with anemia

Protocol summary

Summary

The purpose of this study was to evaluate the effect of pentoxyphylin on hemoglobin level and erythropoietin dose changing in hemodialysis patients with anemia. This study was done in hemodialysis centers in Isfahan (Zahraye Marziye) and Khomeini Shahr (Saei). The patients who were on hemodialysis for at least one month prior to the study, were assigned to receive pentoxyphylin tablet, 400mg daily for 6 months or placebo. Hemoglobin, Iron, Ferritin and serum iron binding capacity were measured and compared between groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201011102417N4**
Registration date: **2010-12-30, 1389/10/09**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2010-12-30, 1389/10/09

Registrant information

Name

Firouzeh Moeinzadeh

Name of organization / entity

Isfahan University of Medical Sciences

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Phone

+98 31 1625 5555

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research, Isfahan University of Medical Sciences

Expected recruitment start date

2010-04-04, 1389/01/15

Expected recruitment end date

2010-09-06, 1389/06/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of pentoxyphilin for reduce of erythropoietin needs in hemodialysis patiente with anemia

Public title

Effect of pentoxyphilin for reduce of erythropoietin needs in hemodialysis patiente with anemia

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patient’s satisfaction, hemodialysis for at least 1 month, hemoglobin concentration <10g/dL in at least 2 episode, Erythropoietin use ≥12000unit per week, no bleeding over past month, no infection resulting admission in past month, vitamin C use, 2 tablet 250mg per week Exclusion criteria: drug intolerance, bleeding during the study, infection resulting admission

Age

From **18 years** old to **90 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

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Vice Chancellor for Research, Isfahan University of Medical Sciences

Street address

Isfahan 1000 jarib

City

Isfahan

Postal code

Approval date

2010-02-20, 1388/12/01

Ethics committee reference number

287029

Health conditions studied

1

Description of health condition studied

Ens stage renal disease

ICD-10 code

N18.0

ICD-10 code description

End-stage renal disease

Primary outcomes

1

Description

serum hemoglobin level

Timepoint

onset, monthly,end of study

Method of measurement

g/dL

2

Description

serum albumin

Timepoint

onset, monthly, end of study

Method of measurement

g/dL

3

Description

Erythropoietin use

Timepoint

monthly

Method of measurement

International unit

Secondary outcomes

1

Description

Total iron binding capacity

Timepoint

Baseline, 3rd month, at the end of study

Method of measurement

µg/dL

2

Description

serum Iron level

Timepoint

Baseline, 3rd month, at the end of study

Method of measurement

µg/dL

Intervention groups

1

Description

Pentoxyphylin, 400mg orally daily for 6 months

Category

Treatment - Drugs

2

Description

Placebo daily for 6 months orally

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Zahraye Marziye Dialysis Center

Full name of responsible person

Rezvan Nasiri

Street address

Zeinabiye Street Isfahan

City
Isfahan

2

Recruitment center
Name of recruitment center
Saei Dialysis Center
Full name of responsible person
Rezvan Nasiri
Street address
Isfahan, Khomeini Shahr, Saei Hospital
City
Isfahan

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice Chancellor for Research, Isfahan University of Medical Sciences
Full name of responsible person
Vice Chancellor for Research
Street address
Hezarjarib, Isfahan
City
Isfahan
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Vice Chancellor for Research, Isfahan University of Medical Sciences
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
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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