Clinical Trial Protocol
Iranian Registry of Clinical Trials

29 May 2026

Effect of Erythropoietin on the treatment of Anemia of prematurity

Protocol summary

Summary

This is a prospective study that determined the effect of erythropoietin in treatment of anemia of prematurity in newborns that were discharged from NICU of Emamreza hospital. We included premature infants who had Hct<30% in second week or Hct <25% in third week. Intervention group received erythropoietin 500 unite/kg twice in week along with supplementary iron. Control group received only supplementary iron for 4 weeks. Hematocrite and reticulocyte count checked at the beginning, third day after the start and one week after the end of treatment.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138711031162N10**
Registration date: **2009-04-01, 1388/01/12**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2009-04-01, 1388/01/12

Registrant information

Name

Ashraf Mohammadzadeh

Name of organization / entity

Neonatal Research Center of Mashhad University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 51 1852 1121

Email address

mohamadzadeha@mums.ac.ir

Recruitment status

Recruitment complete

Funding source

Mashhad University of medical sciences

Expected recruitment start date

2001-05-04, 1380/02/14

Expected recruitment end date

2002-05-04, 1381/02/14

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Erythropoietin on the treatment of Anemia of prematurity

Public title

Effect of Erythropoietin on the treatment of Anemia of prematurity

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Gestational age less than 34 weeks, breast milk feeding, hematocrite <30% when infants age was between 2 to 3 weeks or HCT<25% when infants age was more than 3 weeks. Exclusion criteria: Infants with hemolytic anemia, active bleeding or congenital malformation.

Age

No age limit

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **20**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Vice chancellor for research of Mashhad University of medical sciences

Street address

Ghoreshi building, Daneshgah street

City

Mashhad

Postal code

13131-91379

Approval date

2002-08-05, 1381/05/14

Ethics committee reference number

1427 ت

Health conditions studied

1

Description of health condition studied

Anemia of prematurity

ICD-10 code

P61.2

ICD-10 code description

Anaemia of prematurity

Primary outcomes

1

Description

Hemotocrite and reticulocyte count

Timepoint

at the beginning, third day from the start day and one week after the end of treatment

Method of measurement

venous sampling

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: erythropoietin 500 unite/kg twice in week along with supplementary iron

Category

Treatment - Drugs

2

Description

Control group: only supplementary iron for 4 weeks

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

NICU of Emamreza hospital

Full name of responsible person

Dr.Ashraf mohammadzadeh

Street address

Neonatal research center- NICU- Emamreza hospital-mashhad-Iran

City

Mashhad

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mashhad University of medical sciences

Full name of responsible person

Dr jalil tavakol afshari

Street address

Ghoreshi bulding-Daneshgah street

City

Mashhad

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Mashhad 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
Name of organization / entity
Neonatal Research Center
Full name of responsible person
Dr. Ashraf mohammadzadeh
Position
Neonatologist, professor
Other areas of specialty/work
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Person responsible for updating data

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Web page address
www.mums.ac.ir/nrc

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