

Clinical Trial Protocol

Iranian Registry of Clinical Trials

25 Jul 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
Hematocrit 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

Street address

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Full name of responsible person

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Person responsible for updating data

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