

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 Jul 2026

The efficacy of oral Propranolol in the treatment of the retinopathy of prematurity

Protocol summary

Study aim

Determination of the efficacy of oral propranolol in the management of retinopathy of prematurity

Design

Two arm parallel group double blind randomized trial with drug intervention and outcome assessment

Settings and conduct

Preterm infants admitted in Al Zahra's neonatal intensive care unit, have eye examination at 4-6 weeks after birth. Infants with the diagnosis of retinopathy of prematurity randomly allocate in two groups (oral propranolol or control group). All neonates will assess for need to laser therapy or Avastin administration at 38 weeks corrected gestation age and they will follow till eye examination is completed. A nurse that doesn't know patient's groups, will record their data.

Participants/Inclusion and exclusion criteria

Inclusion criteria: preterm infants with gestational age less than 32 weeks and birth weight less than 1250, Stage 1, 2 for retinopathy of prematurity. Exclusion criteria: cardiovascular diseases, eye anomalies, acute renal failure, intraventricular hemorrhage

Intervention groups

After determination of retinopathy of prematurity in eye examination, infants in intervention group receive oral propranolol 0.5 mg/kg every 8 hours. Drug continues till complete vascularization of retina in eye examination or performing laser therapy. Infants in control group receive routine care for preterm infants without any drug for retinopathy of prematurity

Main outcome variables

Need to intervention (laser therapy or Avastin administration)

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20100512003915N21**

Registration date: **2018-11-12, 1397/08/21**

Registration timing: **retrospective**

Last update: **2018-11-12, 1397/08/21**

Update count: **0**

Registration date

2018-11-12, 1397/08/21

Registrant information

Name

Manizheh Mostafa Gharehbaghi

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 1526 2253

Email address

peirovifara@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-04-23, 1397/02/03

Expected recruitment end date

2018-09-22, 1397/06/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The efficacy of oral Propranolol in the treatment of the retinopathy of prematurity

Public title

Oral propranolol and retinopathy of prematurity

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria:
Preterm infants with gestational age of less than 30 weeks Birth weight less than 1250 grams Stage 1 or 2 for retinopathy of prematurity
Exclusion criteria:
Infants with congenital anomalies Congenital or acquired cardiovascular disease in neonate Acute renal failure Severe intra-ventricular hemorrhage

Age
From **28 days** old to **120 days** old

Gender
Both

Phase
2-3

Groups that have been masked

- Participant
- Investigator
- Outcome assessor
- Data analyser

Sample size
Target sample size: **72**

Randomization (investigator's opinion)
Randomized

Randomization description
Seventy two preterm infants who met inclusion criteria and the diagnosis of retinopathy of prematurity confirms by ophthalmologist in eye examination, will randomly allocate in control and intervention groups by random numbers generated by random number generator. Ophthalmologist that performs eye examination and a nurse who records patients data are blind about patients groups and their received drugs.

Blinding (investigator's opinion)
Double blinded

Blinding description
Eye examiner ophthalmologist is not involved in medical management of neonates and isn't aware about patients received drugs. patients allocate to groups with respect to propranolol with coding and the nurse who records patients' data is blind to their groups.

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee

Ethic Committee of Tabriz University of Medical Sciences

Street address
Central University Building, Golghasht St.

City
Tabriz

Province
East Azarbaijan

Postal code
5168636883

Approval date
2018-04-23, 1397/02/03

Ethics committee reference number
IR.TBZMED.REC.1397.101

Health conditions studied

1

Description of health condition studied

Retinopathy of prematurity

ICD-10 code

H35.1

ICD-10 code description

Retinopathy of prematurity

Primary outcomes

1

Description

The need to intervention (laser therapy or Avastin administration) in retinopathy of prematurity

Timepoint

Corrected gestational age 38 weeks (gestational age plus age after birth in weeks)

Method of measurement

Ophthalmoscopic eye examination and performing laser therapy or Avastin administration

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: We start treatment with oral propranolol (Osve, Iran) 0.5 mg/kg every 8 hr after detection of retinopathy of prematurity in first eye examination. Drug administration will continue till corrected gestational age of 38 weeks.

Category

Treatment - Drugs

2

Description

Control group receive routine care for preterm infants.

Category

Recruitment centers

1

Recruitment center

Name of recruitment center

NICU. Alzahra hospital

Full name of responsible person

Mina Hosseini

Street address

NICU, Al Zahra Hospital, South Artesh St.

City

Tabriz

Province

East Azarbaijan

Postal code

5136688449

Phone

+98 41 3553 9161

Email

Ehsasatme2000@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Dr Abolghasem Juiban

Street address

Central University building, Golgasht st.

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5168636883

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research-vice@tbzmed.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Tabriz 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

Person responsible for general inquiries

Contact

Name of organization / entity

Tabriz University of Medical Sciences

Full name of responsible person

Mina Hosseini

Position

fellowship of neonatology

Latest degree

Specialist

Other areas of specialty/work

Pediatrics

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Person responsible for scientific inquiries

Contact

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

There is no further information

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not 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

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available