

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

24 Jun 2026

### Evaluating the effect of low dose vs moderate dose clofibrate on decreasing serum bilirubin in healthy full term neonates

#### Protocol summary

##### Summary

This randomized clinical trial study was performed to assess effect of different dose of clofibrate on neonatal jaundice. The inclusion criteria included: age of 2 to 29 days; full term newborn (gestational age between 38 to 40 weeks); weight of 2500 to 4000 gr; having indirect hyperbilirubinemia (TSB>16mg/dl); absence of hemolysis, ABO or Rh incompatibility; negative coomb's test; reticulocyte count less than 5%. We enrolled 132 neonates with non-hemolytic indirect hyperbilirubinemia admitted in the neonatal ward of Beasat hospital in Hamadan city, during a nine-month period. The patients were randomly assign to three groups : control group receiving only phototherapy; intervention group 1 receiving a single low dose of oral clofibrate (25 mg/kg) plus phototherapy; intervention group 2 receiving a single moderate dose of oral clofibrate (50 mg/kg) plus phototherapy. Total and indirect bilirubin level was measured in all groups at baseline and 12, 24, 36 and 48 hours after treatment. All neonates were visited in outpatient clinic two days after discharge. No adverse effects were seen subsequent to clofibrate administration.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2012092910933N1**

Registration date: **2012-10-25, 1391/08/04**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2012-10-25, 1391/08/04

##### Registrant information

##### Name

Fatemeh Eghbalian

##### Name of organization / entity

Hamadan University of Medical sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 81 1822 3978

##### Email address

eghbalian@umsha.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Hamadan University Of Medical Sciences

##### Expected recruitment start date

2008-09-22, 1387/07/01

##### Expected recruitment end date

2009-06-20, 1388/03/30

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Evaluating the effect of low dose vs moderate dose clofibrate on decreasing serum bilirubin in healthy full term neonates

##### Public title

Evaluating the effect of low dose vs moderate dose clofibrate on decreasing serum bilirubin in healthy full term neonates

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria included: (a) age of 2 to 29 days; (b) full term newborn (gestational age between 38 to 40 weeks); (c) weight of 2500 to 4000 gr; having indirect

hyperbilirubinemia (TSB>16 mg/dl) ; (d) absence of hemolysis, ABO or Rh incompatibility; (e) negative coomb's test; (f) reticulocyte count less than 5%.  
Exclusion criteria : The neonates with sign of sepsis, electrolyte impairment, any congenital anomalies or disease, seizure, formula feeding, hemolytic disease and those who need exchange transfusion were excluded from the study.

**Age**

From **1 year** old to **1 year** old

**Gender**

Both

**Phase**

3

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **132**

**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**

Hamadan University of Medical Sciences

**Street address**

Mahdie Ave, Hamadan university of Medical sciences,  
Hamedan, Iran

**City**

Hamedan

**Postal code**

6514845411

**Approval date**

2010-09-23, 1389/07/01

**Ethics committee reference number**

16/35/9/116602/پ

**Health conditions studied****1****Description of health condition studied**

Neonatal jaundice

**ICD-10 code**

P59.9

**ICD-10 code description**

P59.9 Neonatal jaundice, unspecified

**Primary outcomes****1****Description**

Bilirubin

**Timepoint**

Total and indirect bilirubin levels were measured at the beginning of treatment and then 12, 24, 36 and 48 hours later

**Method of measurement**

RA1000 Technica

**Secondary outcomes****1****Description**

Bilirubin

**Timepoint**

Total and indirect bilirubin levels were measured at the beginning of treatment and then 12, 24, 36 and 48 hours later

**Method of measurement**

RA1000 Technica

**Intervention groups****1****Description**

control group receiving only phototherapy

**Category**

Treatment - Drugs

**2****Description**

intervention group 1 receiving a single low dose of oral clofibrate (25 mg/kg) plus phototherapy

**Category**

Treatment - Drugs

**3****Description**

intervention group 2 receiving a single moderate dose of oral clofibrate (50 mg/kg) plus phototherapy.

**Category**

Treatment - Drugs

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Bessat Hospital - Neonatal Ward

**Full name of responsible person**  
Dr Fatemeh Eghbalian  
**Street address**  
Motahari Ave, Bessat Hospital, Hamedan, Iran  
**City**  
Hamedan

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+98 81 1822 3978  
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eghbalian\_fa@yahoo.com  
**Web page address**

## Sponsors / Funding sources

### 1

#### Sponsor

**Name of organization / entity**  
Hamadan University of Medical Sciences  
**Full name of responsible person**  
Dr Hydar Tavilani  
**Street address**  
Mahdie Ave, Hamadan University of Medical Sciences, Hamadan, Iran  
**City**  
Hamadan

#### Grant name

#### Grant code / Reference number

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

Yes

#### Title of funding source

Hamadan 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**  
Hamadan University of Medical Sciences  
**Full name of responsible person**  
Dr Fatemeh Eghbalian  
**Position**  
Professor of Neonatology  
**Other areas of specialty/work**  
**Street address**  
Motahari Ave, Besat hospital, Neonatal ward, Hamedan, Iran  
**City**

## Person responsible for scientific inquiries

#### Contact

**Name of organization / entity**  
Hamedan university of medical sciences  
**Full name of responsible person**  
Dr Fatemeh Eghbalian  
**Position**  
Professor of Neonatology  
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## Person responsible for updating data

#### Contact

## 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*