

Clinical Trial Protocol

Iranian Registry of Clinical Trials

13 Jun 2026

Supine versus turning position effect on bilirubine level during phototherapy in healthy term jaundice neonates

Protocol summary

Summary

The aim of this study was to determine the effect of turning (supine and prone position intermittently) versus supine position on the total serum bilirubine concentration during phototherapy. In a randomized controlled trial, term jaundice neonates who were admitted to the neonatal ward of Emamreza hospital were selected. Group1 changed from supine to prone position every 150 minutes. Supine group (group2) was kept in supine position during the entire study period. Total and direct bilirubine level measured at the beginning and 12, 24, 48 hours after phototherapy.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138711061162N12**
Registration date: **2009-06-07, 1388/03/17**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2009-06-07, 1388/03/17

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

Expected recruitment start date

2003-05-21, 1382/02/31

Expected recruitment end date

2004-05-21, 1383/03/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Supine versus turning position effect on bilirubine level during phototherapy in healthy term jaundice neonates

Public title

Supine versus turning position effect on bilirubine level during phototherapy in healthy term jaundice neonates

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: healthy baby, breastfeeding, 49 hours postnatal age, birth weight more than 2500gr, 38-41 weeks gestational age and delivered during an uncomplicated pregnancy. Exclusion criteria: Infants with hemolytic disease, infection, congenital anomaly, closed hemorrhage (cephalo-hematoma) and metabolic disease.

Age

No age limit

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)

Not 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

2003-09-04, 1382/06/13

Ethics committee reference number

825-2297

Health conditions studied

1

Description of health condition studied

Neonatal jaundice

ICD-10 code

P61.9

ICD-10 code description

Perinatal haematological disorder, unspecified

Primary outcomes

1

Description

serum bilirubine

Timepoint

befor intervention-12,24 and 48 after phototherapy

Method of measurement

Venous sampling and blood serum bilirubine (diazo method)

Secondary outcomes

1

Description

jaundice in neonate

Timepoint

daily

Method of measurement

Clinically judgment of Icter

Intervention groups

1

Description

Change position from supine position to prone position during phototherapy every 150 minutes

Category

empty

2

Description

Supine position during phototherapy

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

the neonatal ward 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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Person responsible for scientific inquiries

Contact

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Person responsible for updating data

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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