

Clinical Trial Protocol

Iranian Registry of Clinical Trials

03 Aug 2026

Investigation of effects of prone and supine position in preterm neonates under mechanical ventilation in selected hospitals in Isfahan city

Protocol summary

Summary

In a clinical trial, we investigated effects of different positioning in 32 neonates who were under mechanical ventilation on their SPO2. At first, they were positioned in supine position for 120 minutes and then in prone position for another 120 minutes while their SPO2 were measuring by puls-oxymeter. During the intervention, they received no or minimum procedure and there were no change in setting of ventilator. They were excluded if they had thermal instability, receiving blood or blood products, or SPO2 less than 80% during the study period.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138809292899N1**
Registration date: **2010-04-24, 1389/02/04**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2010-04-24, 1389/02/04

Registrant information

Name

Zahra Abdeyazdan

Name of organization / entity

Nursing and midwifery cares research center, Isfahan university of medical sciences

Country

Iran (Islamic Republic of)

Phone

+98 79229063110098

Email address

abdeyazdan@nm.mui.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research of Isfahan University of Medical Sciences

Expected recruitment start date

2008-05-25, 1387/03/05

Expected recruitment end date

2008-08-21, 1387/05/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Investigation of effects of prone and supine position in preterm neonates under mechanical ventilation in selected hospitals in Isfahan city

Public title

Investigation of effects of prone and supine position in preterm neonates under mechanical ventilation in selected hospitals in Isfahan city

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: Gestational age less than 37 weeks, under mechanical ventilation from previous 4 hours, having no respiratory distress due to congenital heart disease, having no active bleeding, having no neuromuscular disease, having no pulmonary hypertension, no need to frequent changes in setting of ventilator Exclusion criteria: thermal instability, receiving blood or blood products during the study, or SPO2 less than 80% during the study

Age

From **1 year** old to **7 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 32

Randomization (investigator's opinion)

N/A

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

Ethics in Researches of Medical Sciences Of Vice
Chancellor for Research of Isfahan University of Me

Street address

Vice Chancellor for Research, Isfahan University of
Medical Sciences, Hezarjereb Ave

City

Isfahan

Postal code

Approval date

2008-05-24, 1387/03/04

Ethics committee reference number

387041

Health conditions studied

1

Description of health condition studied

premature newborns under mechanical ventilation

ICD-10 code

P07.3

ICD-10 code description

Disorders related to length of gestation and fetal growth

Primary outcomes

1

Description

oxygenation

Timepoint

Every minute

Method of measurement

pulse oxymetry

Secondary outcomes

empty

Intervention groups

1

Description

positioning the newborns in supine position

Category

Treatment - Other

2

Description

positioning the newborns in prone position

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

NICU, Shahid Beheshti Hospital

Full name of responsible person

Street address

City

Isfahan

2

Recruitment center

Name of recruitment center

NICU/ Al Zahra Hospital

Full name of responsible person

Street address

City

Isfahan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Research Vice Chancellor of Isfahan University of
Medical Sciences

Full name of responsible person

Dr Payman Adibi

Street address

Isfahan University of Medical Sciences, Hezarjereb
Ave.

City

Isfahan

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Research Vice Chancellor of Isfahan 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

Medical Doctor, Pediatrician

Other areas of specialty/work**Street address**

Nursing and Midwifery Faculty, Isfahn University of Medical Sciences

City

Isfahan

Postal code**Phone**

+98 31 1792 2906

Fax**Email**

abdeyazdan@nm.mui.ac.ir

Web page address**Person responsible for general inquiries****Contact****Name of organization / entity**

Nursing and Midwifery Cares Research center,
Nursing and Midwifery Faculty, Isfahn University of Med

Full name of responsible person

Zahra Abdeyazdan

Position

Associate professor, Pediatrician

Other areas of specialty/work**Street address**

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City

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Nursing and midwifery Cares Research Center,
Nursing and midwifery faculty, Isfahn university of med

Full name of responsible person

Zahra Abdeyazdan

Position

MD/pediatrician

Other areas of specialty/work**Street address****City****Postal code****Phone****Fax****Email****Web page address****Person responsible for scientific inquiries****Contact****Name of organization / entity**

Nursing and Midwifery Cares Research Center/
Nursing and Midwifery Faculty, Isfahn University of Med

Full name of responsible person

Zahra Abdeyazdan

Position**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