

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Effect of Prone & supine position on oxygen saturation in preterm neonates after weaning from mechanical ventilation

Protocol summary

Summary

The aim of this study was to assess the impact of prone and supine positions on arterial oxygen saturation of preterm infants weaned from mechanical ventilation in the intensive care unit. In this research, the population under study was preterm Infants admitted to the hospital who weaned from mechanical ventilation. Early diagnosis of neonates was respiratory distress syndrome and they were Dependent of oxygen. Infants were excluded if they need re intubation. Samplings were constantly and accessibly done on 40 infants. Each infant was his/her own control. The first infant position determined randomly. Then Changing position continued alternatively until the last infant. The duration of placing in each position was 3 hours. Percentage of arterial oxygen saturation in each position measured each fifteen minutes and recorded in questionnaires.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014070518363N1**

Registration date: **2014-08-04, 1393/05/13**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-08-04, 1393/05/13

Registrant information

Name

Fatameh Askari Bagherabadi

Name of organization / entity

Kerman University of Medical Sciences

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Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Research Council of Kerman University of Medical Sciences

Expected recruitment start date

2012-10-22, 1391/08/01

Expected recruitment end date

2013-02-18, 1391/11/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Prone & supine position on oxygen saturation in preterm neonates after weaning from mechanical ventilation

Public title

Effect of two positions on oxygen saturation in preterm neonates after weaning from mechanical ventilation in NICU

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion Criteria: gestational age less than 37 weeks:

Early diagnosis of respiratory distress syndrome:

Dependent of oxygen: chronologic age of less than 7

days: no respiratory disorder due to congenital heart

disease: no active bleeding: no neuromuscular disease

and arterial hypertension Exclusion Criteria: temperature

instability: Receiving blood and blood products: the need

for re intubation: Pneumothorax and need for Chest Tube

placement

Age
From **1 day** old to **7 days** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **40**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Crossover

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethics Committee of Kerman University of Medical Sciences

Street address
Vice chancellor for research, Kerman University of Medical Sciences, Tahmasebabad Crossroads, Ibn Sina Street, Kerman

City
Kerman

Postal code

Approval date
2014-05-17, 1393/02/27

Ethics committee reference number
k/93/44

Health conditions studied

1

Description of health condition studied
Preterm neonates who weaned from mechanical ventilation

ICD-10 code
p07.3

ICD-10 code description
Other preterm infants

Primary outcomes

1

Description
Oxygenation

Timepoint
Every 15 minute

Method of measurement
Pulse Oxymetry

Secondary outcomes

empty

Intervention groups

1

Description
Placing neonate in prone position

Category
Treatment - Other

2

Description
Placing neonate in supine position

Category
Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center
Afzalipoor Hospital

Full name of responsible person
Fatameh Askari

Street address
Afzalipoor Hospital, Kerman

City
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice chancellor for research, Kerman University of Medical Sciences

Full name of responsible person
Dr.Abas Pardakhti

Street address
Vice chancellor for research, Kerman University of Medical Sciences, Tahmasebabad Crossroads, Ibn Sina Street, Kerman

City
Kerman

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice chancellor for research, Kerman 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**

Kerman University of Medical Sciences

Full name of responsible person

Fatameh Askari bagherabadi

Position

Student of Master degree in Neonatal Intensive Care Nursing

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

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Web page address**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