Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 2026

Comparing the effect of topical application of human milk and dry cord care on umbilical cord separation time in healthy newborn infants

Protocol summary

Summary

Objective: Comparing the effect of human milk topical application and dry cord care on cord separation time. Methods: This research was a randomized clinical trial on 130 singleton and mature newborns who born in Rasi hospital in Ghaemshahr, Iran. Newborns were placed randomly in groups of topical application of human milk and dry cord care. The umbilical separation time was compared between two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201102145830N1**
Registration date: **2011-12-03, 1390/09/12**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2011-12-03, 1390/09/12

Registrant information

Name

Azar Aghamohammadi

Name of organization / entity

Islamic Azad University, Sari Branch

Country

Iran (Islamic Republic of)

Phone

+98 15 1325 3179

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Recruitment status

Recruitment complete

Funding source

Islamic Azad University, Sari Branch

Expected recruitment start date

2011-02-06, 1389/11/17

Expected recruitment end date

2011-03-08, 1389/12/17

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing the effect of topical application of human milk and dry cord care on umbilical cord separation time in healthy newborn infants

Public title

The effect of topical application of human milk on umbilical cord

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria: normal neonates with gestational age between 37-42 weeks; first minute Apgar equal to or more than 7; fed breast milk and mother and newborn were roommates after birth. Exclusion criteria: existence of any disease or congenital malformation; immediate need to assay and treat the newborn after birth; rupture in amnionitic membrane more than 12 hours; suffering from urinary system infection in mothers; newborn suffered from respiratory distress, prenatal asphyxia, metabolic diseases; thick and jellatinous umbilical cord which needs two clumps; hyperbilirubinemia and any problem that caused the newborn to be taken to NICU.

Age

To **1 year** old

Gender

Both

Phase

N/A

Groups that have been masked
No information
Sample size
Target sample size: **150**
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
Mazandaran University of Medical Sciences
Street address
Mazandaran University of medical sciences, three way of Joubar
City
Sari
Postal code
Approval date
2011-02-06, 1389/11/17
Ethics committee reference number
4/1704

Health conditions studied

1

Description of health condition studied
umbilical cord care
ICD-10 code
P96.9
ICD-10 code description
Condition originating in the perinatal period, unspecified

Primary outcomes

1

Description
umbilical cord separartion time
Timepoint
one time after umbilical cord separartion
Method of measurement
observation, in hours

Secondary outcomes

1

Description
Bleeding continuation after separation
Timepoint
after separation
Method of measurement
observation, daily

Intervention groups

1

Description
topical application of human milk in umbilical cord care
Category
Treatment - Other

2

Description
dry cord care in umbilical cord care
Category
N/A

Recruitment centers

1

Recruitment center
Name of recruitment center
Razi hospital
Full name of responsible person
Street address
City
Ghaemshahr

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Islamic Azad University, Sari Branch
Full name of responsible person
Mohsen Rabani
Street address
Islamic Azad University, Sari Branch
City
Sari
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Islamic Azad University, Sari Branch
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
Islamic Azad University, Sari Branch
Full name of responsible person
Azar Aghamohammadi
Position
faculty member
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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