

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 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)

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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 separation time

Timepoint

one time after umbilical cord separation

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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Web page address**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