

# 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)

###### Phone

+98 15 1325 3179

###### Email address

azareaghamohamady@iausari.ac.ir

##### 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*