

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

26 Jun 2026

### Effects of Abdominal Massage on Feeding Tolerance in Preterm Infants in Certain Hospitals of Isfahan

#### Protocol summary

##### Summary

Objective: this study attempts to determine effects abdominal massage could have on feeding tolerance in preterm infants hospitalized in the Neonatal Intensive Care Unit (NICU) in certain hospitals of Isfahan in 2015. Study design: randomized controlled trial. Study population: the population consisted of infants who were hospitalized in the NICU, were in the 28-32 week-old age range, weighed 1000-1800 grams, and had all inclusion criteria. Inclusion criteria: infants should be in the 28-32 week-old age range; infants should weigh 1000-1800 grams; infants who have a medical prescription for a daily feeding of at least 20 cc/kg; infants who are breastfed; infants who suffer from feeding intolerance; infants should have no history of ileus (gastrointestinal atony), abdominal surgery, or any other problem forbidding them to receive abdominal massage; infants should be fed through the orogastric tube; parents should give consent to the examination of their infants; preterm infants should never suffer from major congenital anomalies such as congenital heart disease, digestive-system disorders, hypoxic injury, respiratory failure with mechanical ventilation, history of necrotizing enterocolitis (NEC), or (suspected) sepsis; preterm infants should show no symptoms of intracranial hemorrhage; preterm infants should never need a ventilator. Exclusion criteria: parents' withdrawal for infants' participation in the study; infants' discharge or death before the end of the intervention period; infants' becoming unwell in the course of illness and during the study, which would interfere with the intervention for any reason. Sample size: 64 (32 in the intervention group and 32 in the control group). Study intervention(s): abdominal massage. Primary outcome variables: gastric residual volume, abdominal circumference, vomiting frequency, and defecation frequency.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2016072723216N3**

Registration date: **2016-08-26, 1395/06/05**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2016-08-26, 1395/06/05

##### Registrant information

##### Name

Said Amini Rarani

##### Name of organization / entity

Isfahan University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 31 3522 6158

##### Email address

ghadami@mui.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Vice chancellor for research, Isfahan University of Medical Science

##### Expected recruitment start date

2015-12-22, 1394/10/01

##### Expected recruitment end date

2016-05-21, 1395/03/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

## Scientific title

Effects of Abdominal Massage on Feeding Tolerance in Preterm Infants in Certain Hospitals of Isfahan

## Public title

Effects of Abdominal Massage on Feeding Tolerance in Preterm Infants

## Purpose

Supportive

## Inclusion/Exclusion criteria

Inclusion criteria: infants should be in the 28-32 week-old age range; infants should weigh 1000-1800 grams; infants who have a medical prescription for a daily feeding of at least 20 cc/kg; infants who are breastfed; infants who suffer from feeding intolerance; infants should have no history of ileus (gastrointestinal atony), abdominal surgery, or any other problem forbidding them to receive abdominal massage; infants should be fed through the orogastric tube; parents should give consent to the examination of their infants; preterm infants should never suffer from major congenital anomalies such as congenital heart disease, digestive-system disorders, hypoxic injury, respiratory failure with mechanical ventilation, history of necrotizing enterocolitis (NEC), or (suspected) sepsis; preterm infants should show no symptoms of intracranial hemorrhage; preterm infants should never need a ventilator. Exclusion criteria: parents' withdrawal for infants' participation in the study; infants' discharge or death before the end of the intervention period; infants' becoming unwell in the course of illness and during the study, which would interfere with the intervention for any reason.

## Age

To 29 days old

## Gender

Both

## Phase

N/A

## Groups that have been masked

No information

## Sample size

Target sample size: 64

## 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

Ethics committee of Isfahan University Of Medical Sciences

#### Street address

Hezarjerib Street, Isfahan, Iran

#### City

Isfahan,

#### Postal code

8174673461

#### Approval date

2016-05-21, 1395/03/01

#### Ethics committee reference number

lr.mui.rec.1395.3.001

## Health conditions studied

## 1

### Description of health condition studied

Feeding Tolerance in Infants

### ICD-10 code

P92.8

### ICD-10 code description

Other feeding problems of newborn

## Primary outcomes

## 1

### Description

Gastric residual volume

### Timepoint

Before and after intervention

### Method of measurement

with syringe

## 2

### Description

Abdomen circumference

### Timepoint

Before and after intervention

### Method of measurement

With meter

## 3

### Description

Vomiting

### Timepoint

Every working shift

### Method of measurement

Frequency

## 4

### Description

Defecation

### Timepoint

Every working shift

**Method of measurement**

Frequency

**Secondary outcomes**

empty

**Intervention groups****1****Description**

Giving infants abdominal massage one hour after feeding them for 10 minutes twice a day and repeating it for 5 days.

**Category**

Other

**2****Description**

No intervention was performed in the control group

**Category**

N/A

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Shahid Beheshti Hospital

**Full name of responsible person****Street address****City**

Isahan

**2****Recruitment center****Name of recruitment center**

Alzahra Hospital

**Full name of responsible person****Street address****City**

Isfahan

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Vice Chancellor for Research, Isfahan University of Medical Sciences

**Full name of responsible person**

Dr Mehdi Nematbakhsh

**Street address**

Isfahan University of Medical Sciences, Hezarjerib Street, Isfahan, Iran

**City**

Isfahan

**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, 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

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

Isfahan University of Medical Sciences

**Full name of responsible person**

Mahin Shaeri

**Position**

Master Science of Nursing

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

No. 44, Tus Blvd., Mashhad, Iran

**City**

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

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Ahmad Ghadami

**Position**

PhD

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Isfahan University of Medical Sciences

**Full name of responsible person**

Amini Rarani Said

**Position**

Master Science of Nursing

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Isfahan, Iran

**City**

Khorasgan

**Postal code**

8159314853

**Phone****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*