

Clinical Trial Protocol

Iranian Registry of Clinical Trials

30 Jul 2026

Investigation and Comparing the effects of foot reflexology and sucrose 24% with pacifier on severity of neonatal Abstinence syndrome, Hearth rate and Respiratory rate among the neonates with addicted mother

Protocol summary

Study aim

Determining and comparing the effect of reflexology and sucrose with pacifier on severity of substance withdrawal syndrome symptoms in addicted infants

Design

Double-blind clinical trial, block randomization in terms of substance consumption, Fingan score and type of food, with control group, on 90 addicted infants, two intervention groups and one control group in parallel

Settings and conduct

This study will be performed in Pasteur Hospital of Bam city and includes two intervention groups and a control group. Participants are blind (blindness is based on the fact that they are infants) and will be intervened in a separate room. It will also be blind. Reflexology intervention will be performed for minutes. The basis of finger work is walking. In the sucrose group with the pacifier, pour 2 cc of sucrose solution on the front of the baby's tongue, followed by placing the pacifier in the baby's mouth for 15 minutes. The control group will have only the presence of the intervener. Interventions will be performed twice a day for 12 hours. Heart rate, respiration rate and deprivation syndrome score are measured before the intervention and then 15 minutes and 2 hours after the intervention.

Participants/Inclusion and exclusion criteria

Term addicted babies Get a score of 8 or higher on the Finigan checklist hospitalized Lack of congenital problems and problems affecting the symptoms of deprivation Parental consent

Intervention groups

Reflexology : Babies will receive a foot massage for 15 minutes Sucrose : Pour 2 cc of sucrose solution on the baby's tongue with a sterile syringe, followed by placing the pacifier in the baby's mouth for 15 minutes. Control : will have only the presence of the interferer

Main outcome variables

neonatal Abstinence syndrome

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20131228015965N20**

Registration date: **2020-09-01, 1399/06/11**

Registration timing: **registered_while_recruiting**

Last update: **2020-09-01, 1399/06/11**

Update count: **0**

Registration date

2020-09-01, 1399/06/11

Registrant information

Name

Majid Kazemi

Name of organization / entity

Rafsanjan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 34 3425 7663

Email address

dr.kazemi.n@rums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-10-22, 1398/07/30

Expected recruitment end date

2020-10-21, 1399/07/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date
empty

Scientific title
Investigation and Comparing the effects of foot reflexology and sucrose 24% with pacifier on severity of neonatal Abstinence syndrome, Heart rate and Respiratory rate among the neonates with addicted mother

Public title
Investigation and Comparing the effects of foot reflexology and sucrose 24% with pacifier on severity of neonatal Abstinence syndrome among the neonates with addicted mother

Purpose
Supportive

Inclusion/Exclusion criteria
Inclusion criteria:
Newborns born with term maternal addiction during pregnancy Get a score of 8 or higher on the Finigan checklist Being hospitalized in educational and medical centers of the place of study Having parental consent
Exclusion criteria:
Having congenital problems, congenital anomalies and injuries during childbirth Having respiratory problems and other problems affecting the symptoms of deprivation

Age
From **1 day** old to **28 days** old

Gender
Both

Phase
N/A

Groups that have been masked

- Participant
- Care provider
- Outcome assessor

Sample size
Target sample size: **90**

Randomization (investigator's opinion)
Randomized

Randomization description
Sampling will be done by block randomization method and based on that, the participants will be placed in one of the intervention and control groups and in a randomized block in terms of material consumed by the mother and Fingan score and type of feeding. Randomization will be performed by a blind staff to study.

Blinding (investigator's opinion)
Double blinded

Blinding description
Participants are blind (blindness is based on the fact that they are infants) and will be intervened in a separate room. It will also be blind

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Rafsanjan University Of Medical Sciences

Street address

Imam Ali Street

City

Rafsanjan

Province

Kerman

Postal code

7717933777

Approval date

2019-07-16, 1398/04/25

Ethics committee reference number

IR.RUMS.REC.1398.072

Health conditions studied

1

Description of health condition studied

neonatal Abstinence syndrome

ICD-10 code

P96.1

ICD-10 code description

Neonatal withdrawal symptoms from maternal use of drugs of addiction

Primary outcomes

1

Description

on severity of neonatal Abstinence syndrome

Timepoint

Twice a day for 12 hours, before and then 15 minutes and 2 hours after the intervention

Method of measurement

Fingan Tools

Secondary outcomes

1

Description

Number of breaths

Timepoint

Twice a day 12 hours before the intervention, 15 minutes and 2 hours after the intervention

Method of measurement

Counting

2

Description

Heart rate

Timepoint

Twice a day 12 hours before the intervention, 15 minutes and 2 hours after the intervention

Method of measurement

Pulse oximetry device

Intervention groups

1

Description

Intervention group 1: In the sucrose group with pacifier, 2 cc of sucrose solution for infants over 2 kg and 1.5 cc for infants 1.5 to 2 kg and 0.5 cc for infants under 1.5 kg of sucrose 24%(Made by Shahid Ghazi Pharmaceutical Company) Pour a sterile syringe on the front of the baby's tongue, the dose of sucrose was selected based on studies in this field (50) and then put the pacifier in the baby's mouth for 15 minutes. Interventions will be performed twice a day, 12 hours apart. Heart rate was measured using a pulse oximetry device (calibrated and identical), respiration rate was counted, and deprivation syndrome score was measured using the Finigan checklist before the intervention and then 15 minutes and 2 hours after the intervention.

Category

N/A

2

Description

Second intervention group: In the reflexology group, infants will receive a foot massage (reflexology belief is based on the fact that the foot is a reflection of different organs of the body and foot massage affects different systems). In this intervention, we use zone number one, which is the thumb and toes. We chose that it is directly related to the head and neck and the secretion of endorphins. Reflexology intervention will be performed for 15 minutes. The pressure of the massage is such that the blood supply to the target organ is not disturbed. The basis of Finger Walking is that we first massage the sole of the baby's foot completely, from the heel vertically and walking, with the index finger, and then the desired area will be massaged more. Interventions will be performed twice a day, 12 hours apart. Heart rate using pulse oximetry device (calibrated and identical), number

Category

N/A

3

Description

Control group: The control group will have only the presence of the intervener and the heart rate using the pulse oximetry device (calibrated and identical), the number of breaths counted and the deprivation syndrome score using the Finigan checklist before the intervention and then 15 minutes. And is measured 2

hours after the intervention. Interventions will be performed twice a day, 12 hours apart.

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Pastor hospital

Full name of responsible person

Dr.Majid Kazemi

Street address

Khalij Fars Blvd

City

Bam

Province

Kerman

Postal code

7661961676

Phone

+98 34 4431 9400

Email

gholamisedigh@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Rafsanjan University of Medical Sciences

Full name of responsible person

Dr.Hamid Hakimi

Street address

Ali ibn Abi Taleb Squire, Imam Ali Street

City

Rafsanjan

Province

Kerman

Postal code

7717933777

Phone

+98 34 3428 0000

Email

dr.kazemi.n@rums.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Rafsanjan University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty
Country of origin
Type of organization providing the funding
Academic

Phone
000034283498+
Email
Maj_Kaz@yahoo.com

Person responsible for general inquiries

Contact

Name of organization / entity
Rafsanjan University of Medical Sciences
Full name of responsible person
Sedighe Gholami Shiri
Position
Master Student Of Nursing
Latest degree
Bachelor
Other areas of specialty/work
Nursery
Street address
Tavanir Street
City
Kerman
Province
Kerman
Postal code
7618469184
Phone
+98 930 822 5514
Email
gholamidesigh@gmail.com

Person responsible for scientific inquiries

Contact

Name of organization / entity
Rafsanjan University of Medical Sciences
Full name of responsible person
Dr.Majid Kazemi
Position
PHD. in Nursing
Latest degree
Ph.D.
Other areas of specialty/work
Medical Education
Street address
Ali ibn Abi Taleb Squire, Imam Ali Street
City
Rafsanjan
Province
Kerman
Postal code
7717933777

Person responsible for updating data

Contact

Name of organization / entity
Rafsanjan University of Medical Sciences
Full name of responsible person
Sedighe Gholami Shiri
Position
Master Student Of Nursing
Latest degree
Bachelor
Other areas of specialty/work
Nursery
Street address
Tavanir Street
City
Kerman
Province
Kerman
Postal code
7618469184
Phone
009899308225514
Email
gholamisedigh@gmail.com

Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available