

Clinical Trial Protocol

Iranian Registry of Clinical Trials

05 Aug 2026

The effect of educational program on nurses performance in care of neonates with peripherally inserted central catheter

Protocol summary

Summary

Objective: To identify the effect of educational program on nurses performance in care of neonate with peripherally inserted central catheter. Design : It is a non randomized controlled clinical trial. 80 nurses working in NICU of the training hospitals affiliated to Tehran and Iran Medical Science University are chosen and divided to control (n=40) and intervention (n=40) groups. Inclusion criterias are undergraduated and higher education; at least three months experience in NICU; having direct clinical works. Exclusion criteria is absence in more than one training session. Setting: A two part questionnaire is prepared to assess nurse's performance. This questionnaire is consist of demographic information and a standard checklist regarding to care of peripherally inserted central catheter that has been approved by 10 members of academic staff. By using this checklist nurse's performance is measured before education intervention in both groups. Assessment done three times in different shifts and average of three points is total score, then educational intervention will be done and after one month, nursing performance in intervention group will be evaluated with the same checklist in three times in different shifts and control group again will be evaluated without educational intervention. In this way effect of educational program will be assessed. Main outcome: It is expected that educational intervention can improve nurse's performance in care of peripherally inserted central catheter.

General information

Acronym

non

IRCT registration information

IRCT registration number: **IRCT2017012831260N1**

Registration date: **2017-03-22, 1396/01/02**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-03-22, 1396/01/02

Registrant information

Name

Somayeh Emamgholi

Name of organization / entity

School of Nursing and Midwifery, Iran University of Medical Sciences

Country

Iran (Islamic Republic of)

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+98 21 6691 7648

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research of Iran University of Medical Sciences

Expected recruitment start date

2016-10-22, 1395/08/01

Expected recruitment end date

2017-01-19, 1395/10/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of educational program on nurses performance in care of neonates with peripherally inserted central catheter

Public title

The effect of educational program on nurses

performance in care of neonates with peripherally inserted central catheter

Purpose

Other

Inclusion/Exclusion criteria

Inclusion Criteria: undereducated and higher education; At least three month experience in NICU; having direct clinical work; Having a mobile phone
Exclusion criteria: Absence in more than one training session

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 80

Randomization (investigator's opinion)

Not randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Other

Other design features

non

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Iran University of Medical Sciences

Street address

School of Nursing and Midwifery, Shahid Yasamy Street- Valiasr AVE

City

Tehran

Postal code

1996713883

Approval date

2016-06-29, 1395/04/09

Ethics committee reference number

IR.IUMS.REC 1395.9211451204

Health conditions studied

1

Description of health condition studied

Nurse's performance about care of peripherally inserted central catheter in neonates

ICD-10 code

ICD-10 code description

-

Primary outcomes

1

Description

Nursing performance about care of peripherally inserted central catheter in neonates

Timepoint

Before intervention and then 1 month after educational intervention

Method of measurement

Researcher's structured check list

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: After explain necessary details about project to participants and take their cooperation and obtain consent from nurses and remember them that they can leave research in any time, performance of each nurse about checklist's items will be observed in three phases in different shifts. Criteria response to checklist will be yes or no. In each phase if nurse performs the correct procedure she/he receives 1 point and if performs incorrect procedure, receives 0 point. So each item will be 0-3 points, average of this three points will be total score. Then educational intervention will be done. Educational program that, its content is according to valid clinical guideline about care of peripherally inserted central line catheter and content of questionnaire has been approved by 10 members of academic staff. After approving of scientific content, program will be done in form of small group education. Educational sessions will be in 4 one- hour sessions. Training site will be in conference room of each ward. Educational sessions will be in form of educator presentation, group discussion, power point presentation and film screening. After the last session, education will be done in bedside by researcher about details of procedure, then educational package that include education content in form of booklet will be provide to wards. Also a poster about different steps of care of peripherally inserted central line catheter in neonate will be installed in place of the ward that is visible to the nurses. After one month, nurse's performance in intervention group will be evaluated by researcher in three phases and different shifts with observational checklist.

Category

Other

2

Description

Control group: After explain necessary details about project to participants and take their cooperation and obtain consent from nurses and remember them that they can leave research in any time, performance of each nurse about checklist's items will be observed in three phases in different shifts. Criteria response to checklist will be yes or no. In each phase if nurse perform the correct procedure she/he receives 1 point and if performs incorrect procedure, receives 0 point. So each item will be 0-3 points, average of this three points will be total score. In this stage no intervention will be done for control group. After one month of educational intervention in intervention group, also control group will be evaluated with checklist and finally in terms of ethical principles all of educational contents include poster, booklet, pamphlet and etc will be provided to nurses in control group.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Center of Children Medical Hospital

Full name of responsible person

Somayeh Emamgholi

Street address

Center of Children Medical Hospital, Dr.Mohammad Gharib Street, Keshavarz blvd

City

Tehran

2

Recruitment center

Name of recruitment center

Arash Hospital

Full name of responsible person

Somayeh Emamgholi

Street address

Farjam Street, Tehranpars third Sq.

City

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3

Recruitment center

Name of recruitment center

Rasul Hospital

Full name of responsible person

Somayeh Emamgholi

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Rasul Hospital, Sattarkhan Street, Niayesh Street

City

Tehran

4

Recruitment center

Name of recruitment center

Ali Asghar Hospital

Full name of responsible person

Somayeh Emamgholi

Street address

Ali Asghar Hospital, Vahid Dastjerdi Street, North Modarres Highway .

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research of Iran University of Medical Sciences.

Full name of responsible person

Dr.Sedighe Khanjari

Street address

School of Nursing and Midwifery, Shahid yasami Street

City

Tehran

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 of Iran 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

Iran University, School of Nursing and Midwifery

Full name of responsible person

Somaye Emamgholi

Position

NICU Nursing Master student

Other areas of specialty/work

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Web page address

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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