Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Effect of evidence based education on nurses performance about neonatal endotracheal suctioning

Protocol summary

Summary

Objective :To identify the effect of evidence based education on nurses performance in endotracheal suctioning in neonates . Design : it is a non randomized controllef clinical trial.80 nurses working in NICU of the training hospitals affiliated to Tehran and Iran medical science University are chosen and devided to control (n=40) and intervention (n=40) groups. Major Inclusion criterias: undergraduated and higher education; at least three months experience in NICU; having direct clinical works. Major Exclusion criteria: Absence in more than one training session. Intervention: A two part questionnaire is prepared to assess nurse's performance. This questionnaire is consist of demographic information and a standard checklist regarding to neonatal endotracheal suctioning procedure 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 shift and average of three points is total score, then educational intervention done and after one month the effect of educational program will be evaluated in three times with the same checklist and control group will be evaluated without educational intervention. Main outcome: It is expected that educational intervention can emprove nurse's performance about neonatal endotracheal suctioning.

General information

Acronym

non

IRCT registration information

IRCT registration number: **IRCT2017020131258N1**
Registration date: **2017-02-01, 1395/11/13**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-02-01, 1395/11/13

Registrant information

Name

Nasrin Bayati

Name of organization / entity

School of Nursing and Midwifery Iran University of Medical Sciences

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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

Effect of evidence based education on nurses performance about neonatal endotracheal suctioning

Public title

Effect of evidence based education on nurses performance about neonatal endotracheal suctioning

Purpose

Other

Inclusion/Exclusion criteria

inclusion criteria: undergraduated and higher education; At least three months experience in NICU; Having direct clinical work; Having a mobile phone Exclusin 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

Parallel

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

Tehtan

Postal code

1996713883

Approval date

2016-06-29, 1395/04/09

Ethics committee reference number

IR.IUMS.REC 1395.9211451206

Health conditions studied

1

Description of health condition studied

nurses performance in neonatal endotracheal suctioning

ICD-10 code

Z43

ICD-10 code description

Attention to artificial openings

Primary outcomes

1

Description

Nursing performance about neonatal endotracheal tube suctioning

Timepoint

Before educational intervention and one month after intervention

Method of measurement

By using of a researcher_ made tool

Secondary outcomes

empty

Intervention groups

1

Description

After explain necessary details about project to participants and take thair 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 perform 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 their content is according to valid guideline about endotracheal tube suctioning 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 education package that include education content in form of booklet will be provide to wards. Also a poster about different steps of endotracheal tube suctioning of neonate will be installed in place of the ward that is visible to the nurses. After one month, nurse's performanc in intervention group will be evaluated by researcher in three phases and different shifts with observational checklist.

Category

N/A

2

Description

Control group: After explain necessary details about

project to participants and take thair 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 perform 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

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Center of Children medical Hospital

Full name of responsible person

Nasrin Bayati

Street address

Center of Children medical Hospital. Dr gharib Street. keshavarz Blvd

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2

Recruitment center

Name of recruitment center

Ali Asghar Hospital

Full name of responsible person

Nasrin Bayati

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Ali Asghar Hospital.Vahid Dastjerdi Street. North Modarres Highway

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3

Recruitment center

Name of recruitment center

Rasul Hospital

Full name of responsible person

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Street address

Rasul Hospital. Sattarkhan Street

City

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4

Recruitment center

Name of recruitment center

Arash Hospital

Full name of responsible person

Nasrin Bayati

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Arash hospital. Farjam Street.Tehranpars third Sq.

City

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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

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Tehran. Rashid Yasami St,Valiasr AVE.School of Nursing and Midwifery

City

Tehran

Grant name

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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

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Position

NICU Nursing Master student

Other areas of specialty/work

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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