

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

04 Jul 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

###### Country

Iran (Islamic Republic of)

###### Phone

+98 21 6691 7648

###### Email address

bayati.n@iums.ac.ir

##### 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  
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**

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 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 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 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 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

**City**

Tehran

2

**Recruitment center**

**Name of recruitment center**

Ali Asghar Hospital

**Full name of responsible person**

Nasrin Bayati

**Street address**

Ali Asghar Hospital. Vahid Dastjerdi Street. North Modarres Highway

**City**

Tehran

3

**Recruitment center**

**Name of recruitment center**

Rasul Hospital

**Full name of responsible person**

Nasrin Bayati

**Street address**

Rasul Hospital. Sattarkhan Street

**City**

Tehran

4

**Recruitment center**

**Name of recruitment center**

Arash Hospital

**Full name of responsible person**

Nasrin Bayati

**Street address**

Arash hospital. Farjam Street. Tehranpars third Sq.

**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**

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

**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**

Nasrin Bayati

**Position**

NICU Nursing Master student

**Other areas of specialty/work**

**Street address**

School of Nursing and Midwifery. Shahid Yasami Street.

**City**

Tehran

**Postal code**

-

**Phone**

+98 21 8888 2885

**Fax**

-

**Email**

Nasrin\_b60@yahoo.com. Bayati.n@iums.ac.ir

**Web page address**

-

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

School of Nursing and Midwifery, Iran University of Medical Sciences

**Full name of responsible person**

Sedighe Khanjari

**Position**

Nursing PhD

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

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

**City**

Tehran

**Postal code**

1996713883

**Phone**

+98 21 8888 2885

**Fax**

-

**Email**

Sed.khanjari@gmail.com

**Web page address**

-

**Person responsible for updating data****Contact****Name of organization / entity**

School of Nursing and Midwifery, Iran University of Medical Sciences

**Full name of responsible person**

Nasrin Bayati

**Position**

NICU Nursing Master Student

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

School of Nursing and Midwifery, Shahid yasami, Valiasr AVE

**City**

Tehran

**Postal code**

-

**Phone**

+98 21 6691 7648

**Fax****Email**

nasrin\_b60@yahoo.com Bayati.n@iums.ac.ir

**Web page address****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*