Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Effect of Designed Training Program based on ADDIE model on Nurses' Performance regarding Transfusion of Blood and Blood products for Child

Protocol summary

Study aim

Determine the effect of designed training program based on ADDIE model on nurses' performance regarding transfusion of blood and blood products for child.

Design

Randomized, Field trial with parallel groups, one-way blind on 60 nurses. Simple randomization with spinning coins was assigned to the intervention and control groups.

Settings and conduct

The study was performed on pediatric nurses at Bint Al-Huda Hospital in Nasiriyah, Iraq. Subjects under intervention are randomly divided into two groups of intervention and control. In the intervention group, after holding three appropriate training sessions for nurses in case of blood transfusion and blood products, the performance of nurses before, during and after blood transfusion was performed by the researcher using a checklist. The control group, as usual, performed the section on blood transfusion and their function was believed by the researcher as observed by a checklist, and then the data is analyzed using SPSS software and performed with modification. Becomes.

Participants/Inclusion and exclusion criteria

The inclusion criteria are at least of 6 months of work experience in the pediatric wards, not participation in training program about transfusion of blood and blood products previously and tendency to participation in the study. The exclusion criterion was the change in nurses' workplace during the study; Nurses' absence from attending more than one session of training sessions.

Intervention groups

In intervention group, for nurses, three training sessions are held using the ADDIE model, then the performance of nurses before, during and after blood transfusion to the child is monitored and evaluated by the researcher using a checklist.

Main outcome variables

Nurses' performance regarding transfusion of blood and blood products for child, before, during and after transfusion.

General information

Reason for update

Acronym

EPNPTB

IRCT registration information

IRCT registration number: **IRCT20210718051933N1**
Registration date: **2021-08-12, 1400/05/21**
Registration timing: **prospective**

Last update: **2021-08-12, 1400/05/21**
Update count: **0**

Registration date

2021-08-12, 1400/05/21

Registrant information

Name

Reyam Abbas

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 51 3854 2022

Email address

abbasr982@mums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-09-01, 1400/06/10

Expected recruitment end date

2021-10-02, 1400/07/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Designed Training Program based on ADDIE model on Nurses' Performance regarding Transfusion of Blood and Blood products for Child

Public title

Effect of Designed Training Program based on ADDIE model on Nurses' Performance regarding Transfusion of Blood and Blood products for Child

Purpose

Education/Guidance

Inclusion/Exclusion criteria

Inclusion criteria:

he inclusion criteria are at least of 6 months of work experience in the pediatric wards not participation in training program about transfusion of blood and blood products previously tendency to participation in the study.

Exclusion criteria:

The exclusion criterion was the change in nurses' workplace during the study. Nurses' absence from attending more than one session of training sessions.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

- Data analyser

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Randomized

Randomization description

Pediatric wards in Bint-Al-Huda teaching hospital at Al Nasiriya City with simple randomization with flipping coin, assigned to intervention and control group.

Blinding (investigator's opinion)

Single blinded

Blinding description

Analysts are unaware of the division of the control and intervention group.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Mashhad University of Medical Sciences

Street address

Ibn Sina Ave; Doctora intersection

City

Mashhad

Province

Razavi Khorasan

Postal code

9137913199

Approval date

2021-07-06, 1400/04/15

Ethics committee reference number

IR.MUMS.NURSE.REC.1400.035

Health conditions studied

1

Description of health condition studied

Nurses' Performance regarding Transfusion of Blood and Blood products

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Nurses' performance regarding transfusion of blood and blood products for child, before, during and after transfusion.

Timepoint

before, during and after transfusion.

Method of measurement

The filled observation checklist of nurses' performance regarding transfusion of blood and blood products is analyzed.

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: In this stage, researchers prepare a set of goals for before, during and after BT administration for nurses' performance with emphasis on nurses' error in this regard. The training program will be carried out through three successive sessions. The content of this training includes the necessary information about blood and blood products, blood functions, signs and contraindications for blood transfusions, complications of blood transfusions,

manifestations of blood transfusion reactions, and the role of nurses during blood transfusions. It also explains the precautionary measures before and after the injection, a general guide to managing the side effects of blood transfusion reactions. Each session will last approximately 2 hours and will last for 2 weeks. Then the performance of nurses before, during and after the intervention is evaluated by the nurse using an observational checklist. In order to confirm the nurse's performance, her performance is evaluated in 2 patients.

Category

Behavior

2

Description

Control group: In this group, nurses perform blood transfusions and blood products according to routine and the performance of nurses during and before and after blood transfusion on two patients is evaluated by an observational checklist by the researcher.

Category

Behavior

Recruitment centers

1

Recruitment center

Name of recruitment center

Bent Alhuda Hospital

Full name of responsible person

Rashid Al-Khalidi

Street address

Nasiriyah, Dhi Qar, Iraq

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Dr. Mohsen Tafaghodi

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Daneshgah Ave; across of Daneshgah 18 Ave

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Fax

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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Mashhad 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

Person responsible for general inquiries

Contact

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Monir Ramezani

Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

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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
Undecided - It is not yet known if there will be 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
Not applicable