

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Jun 2026

Effectiveness of educational strategies concerning pediatric nursing procedures on students' skills

Protocol summary

Study aim

The purpose of this study is comparing the effect of three educational methods, blended, simulation, and self-directed learning on skills of pediatric procedures in nursing students is done.

Design

Quazi experimental design

Settings and conduct

the study conducted at college of nursing \ University of Baghdad, in the pediatric nursing laboratory.

Participants/Inclusion and exclusion criteria

inclusion criteria: nursing student level three college of nursing university of Baghdad; clinical practice in college lab; tendency to participate in research. Exclusion criteria: employees or workers in health institutions, and students graduates from nursing preparatory schools and the nursing institute.

Intervention groups

all student groups will be exposed to 3 different methods of teaching for the three-nursing procedures for pediatric.

Main outcome variables

student's skills, educational strategies

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20231120060117N2**

Registration date: **2023-12-17, 1402/09/26**

Registration timing: **prospective**

Last update: **2023-12-17, 1402/09/26**

Update count: **0**

Registration date

2023-12-17, 1402/09/26

Registrant information

Name

Adraa Shawq

Name of organization / entity

University of Baghdad

Country

Iraq

Phone

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2024-01-12, 1402/10/22

Expected recruitment end date

2024-03-12, 1402/12/22

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effectiveness of educational strategies concerning pediatric nursing procedures on students' skills

Public title

educational strategies and development of students' skills

Purpose

Supportive

Inclusion/Exclusion criteria

Inclusion criteria:

nursing student level three college of nursing university of Baghdad clinical practice in college lab agreement to participate in research.

Exclusion criteria:

nursing student who are employees or workers in health institutions students graduate from nursing preparatory school and the nursing institute. student who refuse.

Age

From **20 years** old to **35 years** old

Gender

Both

Phase

0

Groups that have been masked

No information

Sample size

Target sample size: **120**

Randomization (investigator's opinion)

Randomized

Randomization description

students are randomly divided into three equal groups A, B, and C, with a simple random method. prepare the list of all students who agree to participate (60 students) then choose randomly every 3 students put in a group.

Blinding (investigator's opinion)

Not blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Research Ethical Approval Committee at the College of Nursing

Street address

Bab AL-Muadam

City

Baghdad

Postal code

10001

Approval date

2023-10-02, 1402/07/10

Ethics committee reference number

2243

Health conditions studied**1****Description of health condition studied**

educate nursing students about common pediatric nursing procedures (Nasogastric tube insertion Indwelling urinary catheter insertion, Administer intramuscular injection)

ICD-10 code

Z46.5

ICD-10 code description

Encounter for fitting and adjustment of other gastrointestinal appliances and device Encounter for fitting and adjustment of urinary devices Encounter for other procedures for purposes other than remedying health state

Primary outcomes**1****Description**

the students randomly are divided into three equal groups A, B, and C. With a simple random method. the 3 nursing procedures (nasogastric tube insertion, administering intramuscular injection, and inserting indwelling urinary catheter procedure) will be provided for students in 3 different methods of teaching (blended, self-learning, and simulation method). a checklist will used to evaluate students' skills.

Timepoint

Before intervention, 4-6 weeks after intervention

Method of measurement

Nasogastric tube insertion checklist, inserting indwelling urinary catheter checklist, Administering intramuscular injection checklist

Secondary outcomes

empty

Intervention groups**1****Description**

intervention group A: will provide the first nursing procedure (nasogastric tube insertion) in a blended teaching method. the second nursing procedure (intramuscular injection) provides in simulation teaching method. the third nursing procedure (inserting urinary catheter) provides in self-learning method. a checklist will used to evaluate students' skills.

Category

N/A

2**Description**

Intervention group B: will provide the first nursing procedure (nasogastric tube insertion) in a self-learning teaching method. the second nursing procedure (intramuscular injection) provides in blended teaching method. the third nursing procedure (inserting urinary catheter) provides in simulation method. a checklist will used to evaluate students' skills.

Category

N/A

3

Description

Intervention group C: will provide the first nursing procedure (nasogastric tube insertion) in a simulation method. the second nursing procedure (intramuscular injection) provides in self-learning method. the third nursing procedure (inserting urinary catheter) provides in blended method. a checklist will used to evaluate students' skills.

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

college of nursing, university of Baghdad

Full name of responsible person

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

College of Nursing, University of Baghdad

Full name of responsible person

Professor Wissam Jabbar Qasim, PhD. Dean

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Grant name

Grant code / Reference number

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

No

Title of funding source

author

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

College of Nursing, University of Baghdad

Full name of responsible person

Ayat Hussein Hameed

Position

monitor\ master's degree student

Latest degree

Bachelor

Other areas of specialty/work

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is 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

Title and more details about the data/document

direct observation by the researcher by using the checklist for 3 tests.

When the data will become available and for how long

when finishing the process of data collection, analysis and successfully publishing the manuscript, all the related files will become available for 6 months after publications

To whom data/document is available

All the related files will be shared with any scientific interested parties.

Under which criteria data/document could be used

It may be used after seeking the author's permission

From where data/document is obtainable

The author's professional e-mail that will be available

What processes are involved for a request to access data/document

using checklist format and direct observation

Comments