Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 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
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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-Muadum

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
Ayat Hussein Hameed

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
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Full name of responsible person
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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
Nursing

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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