

# 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

+964 770 263 8811

##### Email address

adraa.hussein@conursing.uobaghdad.edu.iq

#### 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

###### Street address

Al-shaeb / Baghdad

###### City

Baghdad

###### Postal code

10011

###### Phone

+964 770 741 0800

###### Email

ayat.h@conursing.uobaghdad.edu.iq

###### Web page address

### 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

###### Street address

Bab AL-Muadum

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+964 781 427 5292

###### Email

dr.wissamjk@conursing.uobaghdad.edu.iq

###### 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

##### Street address

Bab AL-Muadum campus

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##### Province

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### Person responsible for scientific inquiries

#### Contact

##### Name of organization / entity

College of Nursing, University of Baghdad

##### Full name of responsible person

Adraa Hussein Shawq

##### Position

Baghdad

##### Latest degree

Ph.D.

##### Other areas of specialty/work

Nursing

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## Person responsible for updating data

### Contact

**Name of organization / entity**

College of Nursing, University of Baghdad

**Full name of responsible person**

Adraa Hussein Shawq

**Position**

baghdad

**Latest degree**

Ph.D.

**Other areas of specialty/work**

nursing

**Street address**

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**City**

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+964 770 263 8810

**Email**

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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**