Clinical Trial Protocol
Iranian Registry of Clinical Trials

04 Nov 2026

Comparison of effect of lecture and e-learning education on cognitive,s skill of arterial blood gases interpretation in the critical care nurses

Protocol summary

Summary

This study is a randomized clinical training. The target population consisted of all nurses in intensive care units in medical centers and hospitals where it is. The sample consisted of all nurses working in three shifts, morning, noon and night in the ICU intensive care unit of the hospital where the military is selected. The intervention included providing training to interpret arterial blood gases and the lecture content in the form of an electronic package. Assembly 66 is the sample size The intervention included providing training to interpret arterial blood gases and the lecture content in the form of an electronic package. 2-month intervention period is considered. Before the intervention, the test will be performed. Hospitals based on pre-test scores were randomly assigned in groups of e-learning, the lecture group and the control group will be assigned. After the intervention, a 2-week training is offered. The first test will be done and then 2 months later recall test or 2 test will be performed. Using the Software (21) SPSS and statistical tests to assess the results will be good. Start Date 15/02/92 till 15/06/92 will intervene

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013102815203N1**
Registration date: **2013-12-11, 1392/09/20**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2013-12-11, 1392/09/20

Registrant information

Name

Zahra Nezamabadi

Name of organization / entity

AJA University of Medical Sciences. School of Nursing.

Country

Iran (Islamic Republic of)

Phone

+98 21 6604 3347

Email address

z.nezamabadi@ajaums.ac.ir

Recruitment status

Recruitment complete

Funding source

AJAUMS

Expected recruitment start date

2013-05-05, 1392/02/15

Expected recruitment end date

2013-09-06, 1392/06/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of effect of lecture and e-learning education on cognitive,s skill of arterial blood gases interpretation in the critical care nurses

Public title

Comparison the effect of lecturing method and e-learning program

Purpose

Health service research

Inclusion/Exclusion criteria

This study is a randomized clinical teaching. Inclusion criteria: nurses in the ICU during the last six months and continuing education programs in nursing are not involved in the interpretation of arterial blood gases. Exclusion criteria: Not wanting to continue working in

research; People who do not complete the pre-test or post-test; People who have a defective electronic course packs.

Age
From **19 years** old to **50 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **66**

Randomization (investigator's opinion)
Randomized

Randomization description

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
ajaums

Street address
Fatemi St- Etemadzadeh St. Army Medical Sciences University (AJA)

City
Tehran

Postal code

Approval date
2013-07-10, 1392/04/19

Ethics committee reference number
9213

Health conditions studied

1

Description of health condition studied
Arterial Blood Gas interprtation

ICD-10 code
-

ICD-10 code description
-

Primary outcomes

1

Description
the interpretation recognitive,s skill of arterial blood gases

Timepoint
before intervention- 2 weeks post intervevtion- 2 months post intervention

Method of measurement
Specialist Questions Questionnaire

Secondary outcomes

1

Description
Knowledge Retention

Timepoint
2 months post intervention

Method of measurement
Specialist Questions Questionnaire

Intervention groups

1

Description
E- packet containing the necessary training in the physiology of gas exchange and oxygenation, acid-base balance, acid-base disorders are presented along with relevant examples. E learning Group be able study content with his learning quickly and will have its navigator. Group by telephone call on a predetermined able to receive and respond to questions.

Category
Other

2

Description
In the Lecture group same educational content be provided by an instructor. Group by telephone call on a predetermined able to receive and respond to questions

Category
Other

3

Description
In the control group no intervention.

Category
N/A

Recruitment centers

1

Recruitment center

Name of recruitment center
Hajar hospital

Full name of responsible person
Miss Ghajarieh

Street address
Hajar hospital, Valiasre st
City
Tehran

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
AJA ums
Full name of responsible person
Doctor Zareiyan
Street address
AJA University of Medical Sciences. School of Nursing, Kaj ave, Shariati St.
City
Tehran
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
AJA ums
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
AJA University of Medical Sciences. School of Nursing.
Full name of responsible person
Zahra Nezamabadi
Position
Master student of Critical Care Nursing.School of Nursing. Iran. Tehran. AJA University of Medical
Other areas of specialty/work
Street address
Shariati St. Kaj avenue
City
tehran
Postal code
-
Phone
+98 21 6604 3347
Fax
-
Email
z.nezamabadi@ajaums.ac.irshahla.nezam@gmail.com
Web page address
-

Person responsible for scientific inquiries

Contact
Name of organization / entity
. AJA University of Medical Sciences. School of Nursing. AJA University of Medical Sciences. Med Su
Full name of responsible person
zahra farsi
Position
Assistant Professor
Other areas of specialty/work
Street address
Shariati St. Kaj Avenue. School of Nursing
City
tehran
Postal code
--
Phone
+98 21 7760 1533
Fax
-
Email
ZAHRAFARSI@gmail.com
Web page address
-

Person responsible for updating data

Contact
Name of organization / entity
AJA University of Medical Sciences. School of Nursing.
Full name of responsible person
zahra nezamabadi
Position
Master student of Critical Care Nursing
Other areas of specialty/work
Street address
shariati St. Kaj Ave. AJA University of Medical Sciences. School of Nursin
City
Tehran
Postal code
-
Phone
+98 21 6604 3347
Fax
-
Email
z.nezamabadi@ajaums.ac.irshahla.nezam@gmail.com
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