Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Assessing the impact of teaching about clinical guidelines with short massages on the nurses’ knowledge and skills in peripheral catheter insertion in selective remedial center Guilan. 2018

Protocol summary

Study aim

Assessing the impact of teaching about clinical guidelines with short massages on the nurses’ knowledge and skills in peripheral catheter insertion

Design

two arm parallel group non randomised quasi experimental trial Designed for 68 nurses.

Settings and conduct

The research population consisted of all nurses working in Heshmat Medical Center in Rasht city (as an intervention group) and Shahid Beheshti Medical Center in Anzali (as control group). 34 nurses in the intervention group and 34 nurses in the control group Are selected. Before intervention, knowledge and skills of nurses in both intervention and control groups are evaluated and recorded. Then educational intervention is implemented. the knowledge and skills of nurses in both groups are evaluated and recorded immediately after the end of the training and 8 weeks after that.

Participants/Inclusion and exclusion criteria

Inclusion criteria: nurses who have at least a bachelor's degree in nursing that participate in direct care of the patient and perform peripheral catheter insertion. Non entry criteria: nurses who do not participate in direct care of the patient and do not perform peripheral catheter insertion.

Intervention groups

Before intervention, knowledge and skills of nurses in both intervention and control groups are evaluated and recorded.Then the process of educational intervention begins. For 10 days, two educational short messages are sent daily into the intervention group about how the venous catheter is inserted. Then, the knowledge and skills of nurses in both intervention and control groups are evaluated and recorded immediately after the end of the training and 8 weeks after that. After the end of the sampling, educational content is presented to the nurses of the control group.

Main outcome variables

If this training is to be effective, nursing managers can use this approach to training nursing skills.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20181002041205N1**
Registration date: **2018-12-15, 1397/09/24**
Registration timing: **prospective**

Last update: **2018-12-15, 1397/09/24**
Update count: **0**

Registration date

2018-12-15, 1397/09/24

Registrant information

Name

fatemeh jafaraghaee

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 13 3355 5058

Email address

jafaraghaee@gums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-12-22, 1397/10/01

Expected recruitment end date

2019-05-17, 1398/02/27

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Assessing the impact of teaching about clinical guidelines with short massages on the nurses' knowledge and skills in peripheral catheter insertion in selective remedial center Guilan. 2018

Public title

Assessing the impact of teaching on nurses' knowledge and skills in peripheral catheter insertion

Purpose

Education/Guidance

Inclusion/Exclusion criteria

Inclusion criteria:

Nurses who have at least a bachelor's degree in nursing Nurses who participate in direct care of the patient and perform peripheral catheter insertion

Exclusion criteria:

Nurses who do not participate in direct care of the patient Nurses who do not perform peripheral catheter insertion

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **68**

Randomization (investigator's opinion)

Not randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Other

Other design features

Hospital selection of study groups and desired wards, has not been randomized. For this reason, the non-random allocation option was selected for study groups. However, among nurses of each class, a simple random sampling method was used, using a random number table.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Guilan University of Medical Science

Street address

Office for Research and Technology, Shahid Siadati St, Namjoo St, Rasht

City

Rasht

Province

Guilan

Postal code

4188794755

Approval date

2018-09-21, 1397/06/30

Ethics committee reference number

IR.GUMS.REC.1397.232

Health conditions studied

1

Description of health condition studied

Peripheral Catheter Insertion

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

The nurses' knowledge score was measured by using a questionnaire including 10 questions

Timepoint

Measuring the knowledge of nurses before the intervention, immediately and 8 weeks after the intervention

Method of measurement

Using a researcher-made questionnaire that contains 10 questions

2

Description

the Nurses' skill score was measured by using an observational checklist

Timepoint

Measuring the skill of nurses before the intervention, immediately and 8 weeks after the intervention

Method of measurement

Using a researcher-made checklist that contains 13 items

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: The intervention includes an educational course. For ten days, 2 educational short messages will be sent each day for intervention group nurses about intravenous catheter insertion.

Category
Other

2

Description
Control group: The control group does not receive any intervention.

Category
N/A

Recruitment centers

1

Recruitment center

Name of recruitment center
Dr. Heshmat hospital

Full name of responsible person
Seyyede Hengame Mousavi

Street address
Next to Management and Planning Organization of Gilan province, 15th Khordad Street

City
Rasht

Province
Guilan

Postal code
4193955588

Phone
+98 13 3366 9064

Fax
+98 13 3366 8718

Email
heshmat@gums.ac.ir

Web page address
http://heshmat.gums.ac.ir

2

Recruitment center

Name of recruitment center
Shahid Beheshti Hospital

Full name of responsible person
Seyyede Hengame Mousavi

Street address
Km 5 Anzali Road to Astara, Seaport Anzali

City
Seaport Anzali

Province
Guilan

Postal code
4319893151

Phone
+98 13 4450 2004

Fax
+98 13 4450 5212

Email
anzalih_beheshti@yahoo.com

Web page address
http://anzalih.gums.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Rasht University of Medical Sciences

Full name of responsible person
Dr Shadman Nemati

Street address
In front of the hospital 17th Shahrivar, Shahid Siadati Street, Namjoo Street

City
Rasht

Province
Guilan

Postal code
4188794755

Phone
+98 13 3333 6394

Fax
+98 13 3332 4168

Email
research@gums.ac.ir

Web page address
http://research@gums.ac.ir

Grant name

Grant code / Reference number

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

Title of funding source
Rasht 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
Rasht University of Medical Sciences

Full name of responsible person
Hengameh Mousavi

Position
Student

Latest degree
Bachelor

Other areas of specialty/work
Nursery
Street address
Daneshju Ave, Hamidian, Shahidbeheshti Highway, Rasht
City
Rasht
Province
Guilan
Postal code
4763663848
Phone
+98 11 4225 6521
Fax
Email
hengam.mousavi@gmail.com

Person responsible for scientific inquiries

Contact
Name of organization / entity
Rasht University of Medical Sciences
Full name of responsible person
Fatemeh Jafaraghaee
Position
Assistant Professor
Latest degree
Ph.D.
Other areas of specialty/work
Nursery
Street address
Daneshju Ave, Hamidian, Shahidbeheshti Highway, Rasht
City
Rasht
Province
Guilan
Postal code
4146939841
Phone
+98 13555056
Email
jafaraghaee@gums.ac.ir

Person responsible for updating data

Contact
Name of organization / entity
Rasht University of Medical Sciences
Full name of responsible person
Hengameh Mousavi
Position
Student
Latest degree
Bachelor
Other areas of specialty/work
Nursery
Street address
Daneshju Ave, Hamidian, Shahidbeheshti Highway, Rasht
City
Rasht
Province
Guilan
Postal code
4763663848
Phone
+98 11 4225 6521
Fax
Email
hengam.mousavi@gmail.com

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
Yes - There is a plan to make this available
Analytic Code
Yes - There is a plan to make this available
Data Dictionary
Yes - There is a plan to make this available
Title and more details about the data/document
After being unidentified, a portion of the participants' information that is effective on their knowledge and skills in intravenous catheter insertion is shared.
When the data will become available and for how long
Get started 6 months after printing results
To whom data/document is available
The data from this study will be available to all researchers in credible institutions.
Under which criteria data/document could be used
Using data from this research is free by mentioning its source for researchers. How to use information should also be specified.
From where data/document is obtainable
Applicants can access the information at the following addresses: Seyyed Hengame Mousavi: phone number: 09353876272 email: www.hengam.mousavi@gmail.com Dr Fateme Jafaraghae: email: www.Fja_a80@yahoo.com
What processes are involved for a request to access data/document
After submitting the application, the documentation and files will be sent to the researcher for up to 7 days
Comments