

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

05 Jul 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,  
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**Other areas of specialty/work**

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**Province**

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**Postal code**

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**Fax****Email**

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**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**

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**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

**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**