

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

27 May 2026

### The effect of the implementation of the standardized nursing language (SNL) education program on nurse's attitude and quality of documented nursing diagnoses, intervention and outcomes: the (Q-DIO)

#### Protocol summary

Nurses' attitude; the quality of recording nursing diagnoses; actions and results

#### Study aim

Determining the effect of the implementation of the standardized nursing language (SNL) education program on nurse's attitude and quality of documented nursing diagnoses, intervention and outcomes: the (Q-DIO)

#### Design

This design is a semi-experimental two-group study (intervention and control) that is conducted on 70 nurses working in the Cardiology Department of Imam Reza (AS) Mashhad Hospital and their nursing reports. Allocation will be non-random and will not be blinded.

#### Settings and conduct

70 nurses working in the Cardiology Department of Imam Reza (AS) Mashhad Hospital

#### Participants/Inclusion and exclusion criteria

Criteria for entering the study: full-time employment in the CCU department; having a bachelor's or master's degree; willingness to participate in the study. Exclusion criteria: relocation of workplace; unwillingness to continue participating in the study.

#### Intervention groups

For the intervention group, an in-service training course on the use of standard nursing language in the form of a 6-hour workshop (4 sessions of 90 minutes) During two days, lectures, case studies and group work will be held. During the one month implementation of the intervention, the researcher with the help of supervisors and shift managers will check the quality of the registration based on the training provided and provide the necessary feedback to the nurses. Data collection in both intervention and control groups will be before the training workshop and four weeks after the end of the training course. The obtained information will be analyzed. After the completion of data collection, if the control group wishes, a training workshop will be held for this group as well.

#### Main outcome variables

#### General information

##### Reason for update

##### Acronym

SNL

##### IRCT registration information

IRCT registration number: **IRCT20230717058815N1**

Registration date: **2023-08-01, 1402/05/10**

Registration timing: **prospective**

Last update: **2023-08-01, 1402/05/10**

Update count: **0**

##### Registration date

2023-08-01, 1402/05/10

##### Registrant information

##### Name

Samaneh Hasanabadi

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 915 260 9058

##### Email address

hasanabadis4001@mums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2023-08-23, 1402/06/01

##### Expected recruitment end date

2023-09-23, 1402/07/01

##### Actual recruitment start date

empty

**Actual recruitment end date**

empty

**Trial completion date**

empty

**Scientific title**

The effect of the implementation of the standardized nursing language (SNL) education program on nurse's attitude and quality of documented nursing diagnoses, intervention and outcomes: the (Q-DIO)

**Public title**

The effect of the implementation of the standardized nursing language (SNL) education program on nurse's attitude and quality of documented nursing diagnoses, intervention and outcomes: the (Q-DIO)

**Purpose**

Education/Guidance

**Inclusion/Exclusion criteria****Inclusion criteria:**

Full time employment in the CCU department Having a bachelor's or master's degree Now to participate in the study

**Exclusion criteria:**

Moving the workplace Unwillingness to continue participating in the study

**Age**

No age limit

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **70**

**Randomization (investigator's opinion)**

Not 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**

Regional Ethics Committee in Medical Sciences  
Research, Mashhad

**Street address**

University Street, Doctor's Crossroad, Ibn Sina Street,

Faculty of Nursing and Midwifery

**City**

Mashhad

**Province**

Razavi Khorasan

**Postal code**

9137913199

**Approval date**

2023-07-05, 1402/04/14

**Ethics committee reference number**

IR.MUMS.NURSE.REC.1402.047

**Health conditions studied****1****Description of health condition studied**

angina pectoris

**ICD-10 code**

I20

**ICD-10 code description**

Angina pectoris

**2****Description of health condition studied**

ST elevation (STEMI) and non-ST elevation (NSTEMI)  
myocardial infarction

**ICD-10 code**

I21

**ICD-10 code description**

ST elevation (STEMI) and non-ST elevation (NSTEMI)  
myocardial infarction

**3****Description of health condition studied**

Chronic ischemic heart disease

**ICD-10 code**

I25

**ICD-10 code description**

Chronic ischemic heart disease

**4****Description of health condition studied**

Acute ischemic heart disease, unspecified

**ICD-10 code**

I24.9

**ICD-10 code description**

Acute ischemic heart disease, unspecified

**5****Description of health condition studied**

Phlebitis and thrombophlebitis

**ICD-10 code**

I80.

**ICD-10 code description**

Phlebitis and thrombophlebitis

## Primary outcomes

### 1

#### Description

Nurses' attitude

#### Timepoint

before the start and one month after the start of the intervention

#### Method of measurement

Attitude questionnaire

## Secondary outcomes

### 1

#### Description

The quality of recording nursing diagnoses

#### Timepoint

Before the start and one month after the start of the intervention

#### Method of measurement

Q-DIO questionnaire

### 2

#### Description

The quality of recording nursing intervention

#### Timepoint

Before the start and one month after the start of the intervention

#### Method of measurement

Q-DIO questionnaire

### 3

#### Description

The quality of recording nursing outcomes

#### Timepoint

Before the start and one month after the start of the intervention

#### Method of measurement

Q-DIO questionnaire

## Intervention groups

### 1

#### Description

Intervention group: This design is a two-group semi-experimental study that is conducted on 70 nurses working in the Cardiology Department of Imam Reza (AS) Mashhad Hospital and their nursing reports. The intervention and control groups are determined by non-random allocation. For the intervention group, an in-service training course on the use of standard nursing language will be held in the form of a 6-hour workshop (4 sessions of 90 minutes) over two days by the method of lectures, case studies and group work. And the managers of the shifts will check the quality of the registration based on the training provided and provide the necessary feedback to the nurses. Data collection in both

intervention and control groups will be before the training workshop and four weeks after the end of the training course. The obtained information will be analyzed.

#### Category

N/A

### 2

#### Description

Control group: This design is a two-group semi-experimental study that is conducted on 70 nurses working in the Cardiology Department of Imam Reza (AS) Mashhad Hospital and their nursing reports. The intervention and control groups are determined by non-random allocation. No special action is taken for the intervention group. Information is collected. The obtained information will be analyzed. After the completion of data collection, if the control group wishes, a training workshop will be held for this group as well.

#### Category

N/A

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Imam Reza (AS) Mashhad Hospital

##### Full name of responsible person

Atusa Aryafar

##### Street address

Imam Reza (a.s.) Hospital Square, Imam Reza (a.s.) Educational Research and Treatment Center, Mashhad, Razavi, Khorasan

##### City

Mashhad

##### Province

Razavi Khorasan

##### Postal code

9137913316

##### Phone

+98 51 3385 4303

##### Email

AriafarA2@mums.ac.ir

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Mashhad University of Medical Sciences

##### Full name of responsible person

Dr Talat Khadivzadeh

##### Street address

Khorasan Razavi, University of Mashhad, Doctor's Crossroad, Ibn Sina Street, Nursing and Midwifery Faculty, Research Vice

##### City

Mashhad

**Province**

Razavi Khorasan

**Postal code**

9137913199

**Phone**

+98 51 3859 8016

**Email**

khadivzadeht@mums.ac.ir

**Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Mashhad 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**

Mashhad University of Medical Sciences

**Full name of responsible person**

Hasanabadi Samaneh

**Position**

student

**Latest degree**

Bachelor

**Other areas of specialty/work**

Nursery

**Street address**Faculty of Nursing and Midwifery, Doctor's Crossroad,  
Ibn Sina Street, University of Mashhad, Khorasan  
Razavi**City**

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**Postal code**

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**Email**

hasanabadi9058@gmail.com

**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Mashhad University of Medical Sciences

**Full name of responsible person**

Heshmati Nabavi Fatemeh

**Position**

Associate Professo

**Latest degree**

Ph.D.

**Other areas of specialty/work**

Nursery

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heshmati.nabavi@gmail.com

**Person responsible for updating data****Contact****Name of organization / entity**

Mashhad University of Medical Sciences

**Full name of responsible person**

Hasanabadi Samaneh

**Position**

student

**Latest degree**

Bachelor

**Other areas of specialty/work**

Nursery

**Street address**Faculty of Nursing and Midwifery, Doctor's Crossroad,  
Ibn Sina Street, University of Mashhad, Khorasan  
Razavi**City**

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**Postal code**

9137913199

**Phone**

+98 51 3859 1511

**Email**

hasanabadi9058@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**

Releaseable information will be released after consultation with the research team

**When the data will become available and for how long**

Releaseable information will be released after consultation with the research team

**To whom data/document is available**

Releaseable information will be released after

consultation with the research team

**Under which criteria data/document could be used**

Releaseable information will be released after consultation with the research team

**From where data/document is obtainable**

Releaseable information will be released after consultation with the research team

**What processes are involved for a request to access data/document**

Releaseable information will be released after consultation with the research team

**Comments**