

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 May 2026

The effect of care plan application based on standardized nursing language on nurses' attitude to utilization of standardized nursing language and the quality of documentation of nursing diagnoses, interventions, and outcomes

Protocol summary

Study aim

Determining the effect of care plan application based on standardized nursing language on nurses' attitude to utilization of standardized nursing language and the quality of documentation of nursing diagnoses, interventions, and outcomes

Design

Quasi-experimental, single-blind study with two groups in a pretest-posttest design will be conducted, using a census sampling method. Considering an anticipated attrition rate of 15%, the final sample size will be set at 40 participants per group.

Settings and conduct

The study will be conducted in the units of the cardiology department at Imam Reza Hospital. The intervention will consist of using the mobile application containing standardized nursing care plans for four weeks. Data will be collected before and after the intervention using questionnaires.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Nurses with at least a bachelor's degree, Full-time employment in one of the units of the cardiology department, A minimum of two months of clinical experience in the cardiology department, Willingness to participate in the study Exclusion criteria: Change of workplace, Unwillingness to participate or to continue the intervention, Using the application for less than 120 minutes (approximately 30 minutes per week)

Intervention groups

Intervention group will consist of nurses from the CCU1, CCU2, and Post-CCU1 units of Imam Reza Hospital. These nurses will receive the educational intervention, and the care-plan application will be installed for them. Control group will comprise nurses from the CCU3, CCU4, and Post-CCU2 units of Imam Reza Hospital. They will not receive any additional educational intervention and will

continue to follow the hospital's routine program.

Main outcome variables

attitude to utilization of standardized nursing language and the quality of documentation of nursing diagnoses, interventions, and outcomes

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20250926067364N1**

Registration date: **2025-11-25, 1404/09/04**

Registration timing: **registered_while_recruiting**

Last update: **2025-11-25, 1404/09/04**

Update count: **0**

Registration date

2025-11-25, 1404/09/04

Registrant information

Name

Mohammad Sheikhi Azizi

Name of organization / entity

Country

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Recruitment status

recruiting

Funding source

Expected recruitment start date

2025-11-22, 1404/09/01

Expected recruitment end date

2026-06-22, 1405/04/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of care plan application based on standardized nursing language on nurses' attitude to utilization of standardized nursing language and the quality of documentation of nursing diagnoses, interventions, and outcomes

Public title

The effect of care plan application based on standardized nursing language on nurses' attitude to utilization of standardized nursing language and the quality of documentation of nursing diagnoses, interventions, and outcomes

Purpose

Other

Inclusion/Exclusion criteria**Inclusion criteria:**

Nurses with at least a bachelor's degree Full-time employment in one of the units of the cardiology department At least two months of clinical experience in the cardiology department Willingness to participate in the study

Exclusion criteria:

Change of workplace Unwillingness to participate or to continue the intervention Using the application for less than 120 minutes (approximately 30 minutes per week) during the intervention period

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

- Outcome assessor

Sample size

Target sample size: 80

Randomization (investigator's opinion)

Not randomized

Randomization description**Blinding (investigator's opinion)**

Single blinded

Blinding description

In this research, the individual evaluating the outcomes will be unaware of which participants belong to the intervention group or the control group. Information concerning the quality of documented nursing diagnoses, interventions, and outcomes will be coded and sent to the evaluator without any identifying group information. The evaluator will exclusively access anonymized data and will remain ignorant of the group associations of the data. This method is employed to reduce the potential

for bias in evaluating outcomes.

Placebo

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Research ethics committee of the faculty of Nursing and Midwifery - Mashhad University of Medical Sc

Street address

Shahid Dr. Kharazmi Educational Complex, University Campus, East Gate of Ferdowsi University of Mashhad, Azadi Square, Mashhad, Razavi Khorasan, Iran

City

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Postal code

9137913199

Approval date

2025-11-04, 1404/08/13

Ethics committee reference number

IR.MUMS.NURSE.REC.1404.081

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

Cardiovascular System

ICD-10 code**ICD-10 code description****Primary outcomes****1****Description**

Attitude

Timepoint

Before the start of the intervention and after the end of the intervention

Method of measurement

Nurses' attitude to utilization of standardized nursing language questionnaire

2**Description**

Quality of documentation

Timepoint

Before the start of the intervention and after the end of the intervention

Method of measurement

Quality of recording diagnoses, interventions, and nursing outcomes questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: consists of the nurses from the CCU1, CCU2, and Post-CCU1 units of the Cardiology Department at Imam Reza Hospital, who will receive the educational intervention. The care plan application will be installed for them, and for a period of four weeks, they will record their reports based on the standardized patient care plan. During this period, head nurses and shift supervisors will provide necessary feedback on their nursing reports using guidance tools. Data collection will be conducted from them before and after the intervention.

Category

Behavior

2

Description

Control group: The control group consists of nurses from the CCU3, CCU4, and Post-CCU2 units of the Cardiology Department at Imam Reza Hospital. They will not receive any additional educational intervention and will only follow the hospital's usual program in this regard. Data collection will be conducted for this group before and after the intervention.

Category

Behavior

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Reza Hospital

Full name of responsible person

Salaman Soltani

Street address

Imam Reza Educational, Research and Treatment Center, Ibn Sina St, Mashhad, Khorasan Razavi, Iran

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Mashhad University of Medical Sciences

Full name of responsible person

Mohsen Tafaghodi

Street address

Vice Chancellor for Research and Technology, Shahid Dr. Kharazmi Educational Complex - Fourth Floor, East Gate of Ferdowsi University of Mashhad, University Campus, Azadi Square, Mashhad, Khorasan Razavi, Iran

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TafaghodiM@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

Mohammad Sheikhi Azizi

Position

Student

Latest degree

Bachelor

Other areas of specialty/work

Nursery

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

Mashhad University of Medical Sciences

Full name of responsible person

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Position

Professor

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

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

Mashhad University of Medical Sciences

Full name of responsible person

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Position

Student

Latest degree

Bachelor

Other areas of specialty/work

Nursery

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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

Undecided - It is not yet known if there will be 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

Undecided - It is not yet known if there will be a plan to make this available

Title and more details about the data/document

Things that explain the results of our intervention and limitations

When the data will become available and for how long

Access period starts: 6 months after publication of the article

To whom data/document is available

Researchers

Under which criteria data/document could be used

Scientific research to help the nursing community

From where data/document is obtainable

Researchers' email

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

One month

Comments