

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Investigating the effect of applying critical thinking training on missed nursing care in the emergency department of the selected hospital of Isfahan University of Medical Sciences

Protocol summary

Study aim

Determining the average score of critical thinking in the control group before and after the intervention according to demographic variables (age, gender, work experience, etc.)

Design

It is an intervention type study in which the number of samples are divided into two control and intervention groups based on simple randomization and using Randomize Allocation software. The study is conducted in two parallel groups without blinding. There is no trial phase in this study.

Settings and conduct

Emergency Department of Al-Zahra Medical Education Center (S) affiliated to Isfahan University of Medical Sciences, which is the largest educational, specialized and sub-specialized emergency department of Isfahan University of Medical Sciences. The number of nurses working in the emergency department is 120. The types of admitted patients include internal medicine, surgery, orthopedics, neurosurgery and other fields.. There is no blinding.

Participants/Inclusion and exclusion criteria

login Willingness to attend, having a bachelor's degree in nursing or higher, at least 6 months of work experience in the emergency department of Al-Zahra Hospital. departure Unwillingness, less than bachelor's degree, experience less than 6 months

Intervention groups

We have two study groups: 1: Control group (control): for this group, only questionnaires are completed between 0 and 1 (one month later). 2: Intervention group (examination): First, the research questionnaires are completed. Then, 90-minute educational classes with booklets and scenarios are distributed to them, and one month later and two months later, the questionnaires are completed again.

Main outcome variables

Lost nursing care

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20231022059812N3**

Registration date: **2024-08-31, 1403/06/10**

Registration timing: **prospective**

Last update: **2024-08-31, 1403/06/10**

Update count: **0**

Registration date

2024-08-31, 1403/06/10

Registrant information

Name

Shima Safazadeh

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 31 3792 7511

Email address

safa_sh58@yahoo.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2024-09-22, 1403/07/01

Expected recruitment end date

2024-11-20, 1403/08/30

Actual recruitment start date

empty

Actual recruitment end date

empty
Trial completion date
empty

Scientific title
Investigating the effect of applying critical thinking training on missed nursing care in the emergency department of the selected hospital of Isfahan University of Medical Sciences

Public title
Investigating the effect of applying critical thinking training on missed nursing care in the emergency department of the selected hospital of Isfahan University of Medical Sciences

Purpose
Education/Guidance

Inclusion/Exclusion criteria
Inclusion criteria:
Attendance to attend Having a bachelor's degree in nursing or higher At least 6 months of work experience in the emergency department of Al-Zahra Hospital
Exclusion criteria:
Unwillingness to participate in the study A degree lower than a bachelor's degree Experience of less than 6 months in the department of Vergence

Age
From **25 years** old to **45 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **70**

Randomization (investigator's opinion)
Randomized

Randomization description
We use Randomization Allocation software and the site www.sealedenvelope.com/simple-randomiser/v1/lists. After entering the site, we select two groups and set the block size to 70, equal to the number of samples. We consider the whole sample as one block and set its length to 70 people and press the Run button. And people are randomly placed in one of two groups. So, block randomization method and its unit is individual.

Blinding (investigator's opinion)
Not blinded

Blinding description
Placebo
Not used

Assignment
Other

Other design features
This study examines the impact of critical thinking training on reducing the amount of lost nursing care, the selected research environment is one of the busiest emergency rooms in the province, where the amount of lost nursing care is due to several reasons stated in the proposal. It is a lot.

Secondary Ids
empty

Ethics committees
1

Ethics committee
Name of ethics committee
Faculty of Nursing, Management and Rehabilitation - Isfahan University of Medical Sciences (Research
Street address
Safa St., College of Nursing and Midwifery, next to Al-Zahra Hospital.
City
isfahan
Province
Isfahan
Postal code
8199148941

Approval date
2024-07-08, 1403/04/18
Ethics committee reference number
IR.MUI.NUREMA.REC.1403.070

Health conditions studied
1

Description of health condition studied
The target group of our study is nurses
ICD-10 code
ICD-10 code description

Primary outcomes
1

Description
.Missed nursing care, which is a minimum score of 24 and a maximum score of 96.
Timepoint
The training classes will start after obtaining the irtc code
Method of measurement
Completing the questionnaire (California Critical Thinking Questionnaire and Kalish Missed Nursing Care Questionnaire)

Secondary outcomes
empty

Intervention groups
1

Description
The intervention group consisted of 35 people. Before the intervention, both research questionnaires are completed by them. Then, 90-minute training sessions

are arranged for them in 5 sessions with the presence of experienced professors. One month after the intervention, the questionnaire will be completed again by the nurses, and booklets and podcasts will also be provided to them.

Category

N/A

2

Description

The control group also consists of 35 people. Due to the prevention of information leakage, the control group will enter the study first, and one month later, the critical thinking and missing nursing care questionnaires will be completed by that group.

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Al-Zahra Hospital Educational and Therapeutic Center

Full name of responsible person

Dr. Shima Safazadeh

Street address

Safa Street, Faculty of Nursing and Midwifery, next to Al-Zahra Hospital

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Esfahan University of Medical Sciences

Full name of responsible person

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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Esfahan 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

Esfahan University of Medical Sciences

Full name of responsible person

Shima Safazadeh

Position

Assistant professor

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

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Name of organization / entity

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Full name of responsible person

Shima Safazadeh

Position

Instructor, faculty member of Isfahan University of Medical Sciences

Latest degree

Ph.D.

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

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

Study Protocol

Undecided - It is not yet known if there will be 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

Undecided - It is not yet known if there will be 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