# Clinical Trial Protocol
# Iranian Registry of Clinical Trials

31 Oct 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**
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**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**

Isfehan

**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 irct 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

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## Sponsors / Funding sources

**1**

**Sponsor**

**Name of organization / entity**

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**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**

Asistant professor

**Latest degree**

Ph.D.

**Other areas of specialty/work**

Nursery

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## Person responsible for scientific inquiries

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## Person responsible for updating data

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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