

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

08 Sep 2026

### The Effect of Video-based Stroke Triage Education on Nurses' Triage Decision-making in Emergency Department

#### Protocol summary

##### Study aim

Determining the effect of video-based stroke triage training on triage decision-making of nurses in the emergency department

##### Design

A field trial with a pretest-posttest design, including 54 eligible nurses who were conveniently recruited and allocated using block randomization

##### Settings and conduct

This study includes nurses in the emergency department of Shohada Ashayer hospital in Khorramabad in 2025. The groups will be randomly assigned by an independent nurse, and coded as A (intervention) and B (control). Groups will be randomly assigned with the codes remaining confidential until the end of data analysis. The data analyst, evaluating nurse (data collector), and study participants will be blinded to group allocation. However, due to the nature of the study, blinding of the intervention providers will not be possible.

##### Participants/Inclusion and exclusion criteria

Nurses working in the emergency department; nurses with at least one year of work experience or more; willingness to participate in a training program; access to the internet; access to a computer or mobile phone; nurses with Bachelor of Science in Nursing degree (BSN) or higher.

##### Intervention groups

First, 7 video-based scenarios will be designed based on a review of the literature and the Iranian stroke triage scale of Abedi et al. The total intervention time is 4 hours. The nurses in the intervention group will be divided into three groups, and each group will be trained based on the content of the scenarios (training with the show of designed videos) in two sessions and each session lasting 2 h. Then, their triage decision-making will then be measured by a questionnaire after two weeks of the intervention.

##### Main outcome variables

Nurses' stroke triage decision-making in emergency

department

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20250514065726N1**

Registration date: **2025-08-04, 1404/05/13**

Registration timing: **prospective**

Last update: **2025-08-04, 1404/05/13**

Update count: **0**

##### Registration date

2025-08-04, 1404/05/13

##### Registrant information

##### Name

Shourangiz Beiranvand

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 66 3312 0140

##### Email address

shourangiz.beiranvand@gmail.com

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2025-08-23, 1404/06/01

##### Expected recruitment end date

2025-10-23, 1404/08/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| empty                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Scientific title</b>                       | The Effect of Video-based Stroke Triage Education on Nurses' Triage Decision-making in Emergency Department                                                                                                                                                                                                                                                                                                                                                         |
| <b>Public title</b>                           | The Effect of Video-based Stroke Triage Education on Nurses' Triage Decision-making in Emergency Department                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purpose</b>                                | Education/Guidance                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Inclusion/Exclusion criteria</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Inclusion criteria:</b>                    | Nurses working in the emergency department Nurses with at least one year of clinical experience or more Willingness to participate in a training program Access to the internet Access to a computer or mobile phone Nurses with Bachelor of Science in Nursing degree (BSN) or higher                                                                                                                                                                              |
| <b>Exclusion criteria:</b>                    | Failure to participate in the educational intervention program Participation in other similar training and empowerment programs in the field of stroke triage during the intervention The failure to fill in the questionnaire                                                                                                                                                                                                                                      |
| <b>Age</b>                                    | No age limit                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Gender</b>                                 | Both                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Phase</b>                                  | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Groups that have been masked</b>           | No information                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Sample size</b>                            | Target sample size: 54                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Randomization (investigator's opinion)</b> | Randomized                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Randomization description</b>              | 54 eligible emergency department nurses will be conveniently recruited into the study. It using a four-block randomization method to assign nurses to two group. After obtaining written informed consent from the participants, 6 different combinations of four-block (AABB- ABAB- ABBA- BBAA- BABA- BAAB) were created. It randomly selected using the Blockrand package of R software, and the random sequence will be formed as a sequence of letters A and B. |
| <b>Blinding (investigator's opinion)</b>      | Not blinded                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Blinding description</b>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Placebo</b>                                | Not used                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Assignment</b>                             | Parallel                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Other design features</b>                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Lorestan Medica Sciences Ethics Committee

##### Street address

Lorestan University of Medical Sciences, Research and Technology Vice-Chancellor, 5th Kilometer of Khorramabad-Borujerd Road, Opposite Kahrizak Village, Khorramabad, Lorestan, Iran

##### City

Khorramabad

##### Province

Lorestan

##### Postal code

381251698

#### Approval date

2025-03-04, 1403/12/14

#### Ethics committee reference number

IR.LUMS.REC.1403.480

## Health conditions studied

### 1

#### Description of health condition studied

##### ICD-10 code

##### ICD-10 code description

## Primary outcomes

### 1

#### Description

Triage decision- making

#### Timepoint

Before the intervention

#### Method of measurement

Triage Decision-Making Inventory

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Intervention group: First, 7 video-based scenarios will be designed based on a review of the literature and the Iranian stroke triage scale of Abedi et al. Scenarios content includes, how to triage unconscious stroke patients with unstable vital signs, triage of semi-conscious stroke patients with a history of hypertension, diabetes, hemiplegia weakness, and neurological symptoms for more or less than one hour, and triage of conscious stroke patients with normal blood pressure without dysphasia and unilateral body weakness with neurological symptoms for less than 10 minutes. The

total intervention time is 4 hours. The nurses in the intervention group will be divided into three groups, and each group will be trained based on the content of the scenarios (training with the show of designed videos) in two sessions and each session lasting 2 h. Then, their triage decision-making will then be measured by a questionnaire after two weeks of the intervention.

**Category**

N/A

**2**

**Description**

Control group: In the control group, emergency nurses' triage decision-making will be measured using a questionnaire as a pre-test. Nurses in the control group were not received any training. They will complete the triage decision-making questionnaire as a post-test after two weeks

**Category**

N/A

**Recruitment centers**

**1**

**Recruitment center**

**Name of recruitment center**

Shohada Ashayer Hospital in Khorramabad

**Full name of responsible person**

Reza Mehdipanah

**Street address**

Shohada Ashayer Hospital, Enghelab Street, Khorramabad, Lorestan , Iran

**City**

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**Province**

Lorestan

**Postal code**

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**Phone**

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**Email**

Reza.mehdipanah992@gmail.com

**Sponsors / Funding sources**

**1**

**Sponsor**

**Name of organization / entity**

Khoram-Abad University of Medical Sciences

**Full name of responsible person**

Bahram Kamarehie

**Street address**

Lorestan University of Medical Sciences, Research and Technology Vice-Chancellor, 5th Kilometer of Khorramabad-Borujerd Road, Opposite Kahrizak Village, Khorramabad, Lorestan, Iran

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+98 66 3330 0661

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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**

Khoram-Abad 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**

Khoram-Abad University of Medical Sciences

**Full name of responsible person**

Reza Mehdipanah

**Position**

University student

**Latest degree**

Bachelor

**Other areas of specialty/work**

Nursery

**Street address**

Lorestan University of Medical Sciences Complex, Kilometer 5, Khorramabad-Boroujerd Road, Opposite Kahrizak Village, Khorramabad, Lorestan, Iran

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**Person responsible for scientific inquiries**

**Contact**

**Name of organization / entity**

Khoram-Abad University of Medical Sciences

**Full name of responsible person**

Shourangiz Beiranvand

**Position**

Assistant 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**

Khoram-Abad University of Medical Sciences

**Full name of responsible person**

Reza Mehdipanah

**Position**

University student

**Latest degree**

Bachelor

**Other areas of specialty/work**

Nursery

**Street address**

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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