Clinical Trial Protocol
Iranian Registry of Clinical Trials

31 Oct 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
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Iran (Islamic Republic of)
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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

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

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

Purpose
Education/Guidance

Inclusion/Exclusion criteria

Inclusion criteria:
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

Exclusion criteria:
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

Age
No age limit

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **54**

Randomization (investigator's opinion)
Randomized

Randomization description
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.

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
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

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Khoram-Abad University of Medical Sciences

Full name of responsible person

Bahram Kamarehie

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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

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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