

Clinical Trial Protocol

Iranian Registry of Clinical Trials

26 Aug 2026

The Comparative study of effect of teach back, concept map & lecture method on Knowledge & performance of Hemovigilance processes on nurses

Protocol summary

Study aim

Considering the important role of nurses' knowledge and practice in preventing and controlling blood transfusion complications and the need to increase their knowledge and practice in the systematic hemovigilance system to achieve the above goal, as well as the inability of existing and traditional teaching methods in improving the skills The components of learning and effective performance; The researcher is to compare the effectiveness of these two educational methods with lecture method using active and interactive learning methods including conceptual map and feed-back learning.

Design

The first step is to select the samples that are performed in full and in the second stage, due to the possibility of contamination of the information, an inhospitable method will be used, so that each of the three treatment centers will be assigned to one group.

Settings and conduct

108 nurses are taking place in the hospitals of Kosar, Besat and Tohid Hospital in Sanandaj

Participants/Inclusion and exclusion criteria

-Have a graduate degree in nursing or higher. - Wish to participate in the study and complete the informed consent form.

Intervention groups

For the control group, lecture instruction was held for 4 hours in a Tohid Hospital for a 4-hour session. For conceptual mapping method, two consecutive two-hour sessions were conducted in Kosar Hospital and the other with a feedback-based approach with continuous education and monitoring questions for learning to achieve. Ensuring complete understanding of the subject in two sessions is carried out at Be'sat Hospital for two hours.

Main outcome variables

1. Provide effective teaching methods or methods 2. Safety of the patient 3. Improve the quality of caring for hemovigilance by promoting creativity and critical thinking skills

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20160719028997N1**

Registration date: **2019-05-18, 1398/02/28**

Registration timing: **prospective**

Last update: **2019-05-18, 1398/02/28**

Update count: **0**

Registration date

2019-05-18, 1398/02/28

Registrant information

Name

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 4365 1709

Email address

masror.d@iums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-06-08, 1398/03/18

Expected recruitment end date

2019-07-09, 1398/04/18

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The Comparative study of effect of teach back, concept map & lecture method on Knowledge & performance of Hemovigilance processes on nurses

Public title

The effect of education on Knowledge & performance on nurses

Purpose

Education/Guidance

Inclusion/Exclusion criteria**Inclusion criteria:**

Have a graduate degree in nursing or higher Has not participated in Hemovigilance training courses Willing to participate in the study and complete the informed consent form Have at least six months experience in the current section An official, contractual, corporate, design or contractor

Exclusion criteria:

participated in the Hemovigilance period

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **108**

Randomization (investigator's opinion)

Not randomized

Randomization description**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**

Ethics Committee of Iran University of Medical Sciences

Street address

Tehran. Hemat Highway next to Milad Tower- Iran University of Medical Sciences

City

Tehran

Province

Tehran

Postal code

14496, 14535

Approval date

2019-01-20, 1397/10/30

Ethics committee reference number

IR.IUMS.REC.1397.720

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

Hemovigilance education

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

The purpose of this study is to be able to memorize and teach the subjects taught about hemovigilance.

Timepoint

Before the intervention and 14 days later

Method of measurement

This ability is provided by a questionnaire of 32 questions(RBTQ) is measured. In this tool, the correct answer belongs to the score one questions and the wrong answer to zero score. The minimum and maximum score is 0 to 32. In this tool, earning a score of zero and equal to 50% of the total score (score of 0-16) indicates weak knowledge, the score of 51% to 75% of the total score (score of 17-24) represents average knowledge and more than 75% (score of 25-32) Expresses good knowledge.

2**Description**

Function: The purpose of this study is to properly evaluate the process of blood transfusion and its products during the three prior periods, during and after transfusion.

Timepoint

Before the intervention and 14 days later

Method of measurement

Collecting performance information through the self-declaration checklist is carried out on 20 questions. Questions with the five Likert Options scale are never up to ever, with a score of zero to four. In this tool, the minimum and maximum points are zero to 80 and earn less points and equal to 75% poor score (0-60), average score 90-76% (61-72). More than 90% is considered good (73-80)

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: First intervention group: In this group, hemovigilance training is done in a feedback-based approach in two two-hour sessions in selected sections based on a booklet at Kowsar Hospital.

Category

Other

2

Description

Second intervention group: In this group, hemovigilance training is done in a conceptual map in two two-hour sessions in selected sections based on the booklet and conceptual map design in Besat Hospital.

Category

Other

3

Description

Control group: In this group, hemovigilance training is conducted by lecturer in a meeting for 4 hours by the researcher and at the Tohid Hospital.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Tohid Hospital, Besat Hospital and Kowsar Hospital
City of Sanandaj

Full name of responsible person

Shaho Faizy

Street address

Sanandaj - Griashan St.

City

Sanandaj

Province

Kurdistan

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6616812131

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info@muk.ac.i

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Seaid Kazem Malakoti

Street address

Tehran Hemat Highway next to Milad Tower

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Tehran

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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

Iran 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

Iran University of Medical Sciences

Full name of responsible person

Daryadokht Masror-Roodsari

Position

Master - coach

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

Street address

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Person responsible for scientific inquiries

Contact

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Full name of responsible person

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Position

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Person responsible for updating data

Contact

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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