Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 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(RBTKQ) 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
Postal code
6616812131
Phone
+98 87 3328 6112
Email
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
City
Tehran
Province
Tehran
Postal code
14496، 14535
Phone
+98 21 8670 0000
Email
Masror.d@iums.ac.ir
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
Tehran Province, Tehran, Rashid Yasemi St
City
Tehran
Province
Tehran
Postal code
1996713883
Phone
+98 21 8888 2885
Email
Masror.d@iums.ac.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity
Iran University of Medical Sciences

Full name of responsible person
Daryadokht Masroor-Roodsari

Position
Master - coach

Latest degree
Ph.D.

Other areas of specialty/work
Nursery

Street address
Tehran Province, Tehran, Rashid Yasemi St

City
Tehran

Province
Tehran

Postal code
1996713883

Phone
+98 21 8888 2885

Email
Masror.d@iums.ac.ir

Person responsible for updating data

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
Tehran Province, Tehran, Rashid Yasemi St

City
Tehran

Province
Tehran

Postal code
1996713883

Phone
+98 21 8888 2885

Email
Masror.d@iums.ac.ir

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