

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

09 Jul 2026

### Impact of teaching of thinking skills on attitude and ability of senior nursing students for the application of nursing process

#### Protocol summary

##### Summary

**Objectives:** The aim of this study is to determine the Impact of teaching of thinking skills on attitude and ability of senior nursing students for the application of nursing process. **Design:** In this clinical trial study, 66 students who Last semester of nursing in Tehran Faculty of Nursing and Midwifery, If the students have all inclusion criteria includes: Willingness students to participate will be enrolled in the study. Exclusion criteria: unwillingness to continue participate in the study; Refusing to whole participate in thinking skill workshop and not delivering questionnaires. **Intervention:** Students will be assigned after the simple random sampling to experiment and control groups. Before commence of the intervention will be measured students attitude by attitude questionnaire and ability to apply nursing process, researcher-made questionnaire which its validity and reliability will be determined. After that students in the experiment group will train thinking skills based on Six Thinking Hats in a 2 days workshop (8 hours). In the first session the basics and fundamental of thinking, and the Six Thinking Hats will be teach, in the second session use and practice of the Six Thinking Hats by providing two clinical scenarios will be discussed. While students in control group will receive only routine training. Finally, again the attitude and the ability to apply the nursing process after training and one month after the training will be measured and compared. **Main outcome measures (variables):** Attitude and the ability to apply the nursing process.

#### General information

##### Acronym

-

##### IRCT registration information

IRCT registration number: **IRCT201409225987N15**

Registration date: **2015-06-22, 1394/04/01**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2015-06-22, 1394/04/01

##### Registrant information

###### Name

Shahrzad Ghiyasvandian

###### Name of organization / entity

Tehran University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 21 6692 7171

###### Email address

shghiyas@tums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Vice chancellor for research, Tehran University of Medical Sciences

##### Expected recruitment start date

2014-12-22, 1393/10/01

##### Expected recruitment end date

2015-03-21, 1394/01/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Impact of teaching of thinking skills on attitude and ability of senior nursing students for the application of nursing process

##### Public title

The effect of teaching of thinking skills on attitude and ability of senior nursing students for the application of

nursing process

### **Purpose**

Health service research

### **Inclusion/Exclusion criteria**

Inclusion criteria: willingness students to participate in the study Exclusion criteria: unwillingness to continue participate in the study; refusing to whole participate in thinking skill workshop; not delivering questionnaires.

### **Age**

No age limit

### **Gender**

Both

### **Phase**

N/A

### **Groups that have been masked**

No information

### **Sample size**

Target sample size: 66

### **Randomization (investigator's opinion)**

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 Tehran University of Medical Sciences

##### **Street address**

Sixth floor of the University Center, Qods St, Keshavarz Blvd

##### **City**

Tehran

##### **Postal code**

##### **Approval date**

2014-07-14, 1393/04/23

##### **Ethics committee reference number**

912/130/93/3

## **Health conditions studied**

### 1

#### **Description of health condition studied**

-

#### **ICD-10 code**

-

## **ICD-10 code description**

-

## **Primary outcomes**

### 1

#### **Description**

Attitude

#### **Timepoint**

Before the training, at the end of the training sessions and one month after training

#### **Method of measurement**

Questionnaire of the attitude of the nursing process

### 2

#### **Description**

Ability to apply the nursing process

#### **Timepoint**

Before the training, at the end of the training sessions and one month after training

#### **Method of measurement**

Questionnaire to apply the nursing process checklist

## **Secondary outcomes**

empty

## **Intervention groups**

### 1

#### **Description**

Intervention group: Training thinking skills based on six thinking hats in a 2-day workshop (8 hours). In the first session the basics and fundamental of thinking, and the Six Thinking Hats will be teach, in the second session use and practice of the Six Thinking Hats by providing two clinical scenarios will be discussed.

#### **Category**

Behavior

### 2

#### **Description**

Control group: In the control group will not be done any intervention and take only routine training.

#### **Category**

Other

## **Recruitment centers**

### 1

#### **Recruitment center**

##### **Name of recruitment center**

The faculty of Nursing and Midwifery of Tehran University of Medical Sciences

##### **Full name of responsible person**

Omid Mohamadamini, MSc student in Medical-Surgical Nursing The Tehran University, Iran

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The faculty of Nursing and Midwifery of Tehran  
University of Medical Science, Nosrat Street, Tohid  
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**Phone**

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**Fax****Email**

omidbaneh@gmail.com

**Web page address****Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Vice chancellor for research, Tehran University of  
Medical Sciences

**Full name of responsible person**

Masoud Younesian

**Street address**

Sixth floor of the University Center, Qods St,  
Keshavarz Blvd. Tel: 88987382 - Fax: 88989664

**City**

Tehran

**Grant name**

-

**Grant code / Reference number**

-

**Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Vice chancellor for research, Tehran University of Medical  
Sciences

**Proportion provided by this source**

100

**Public or private sector**

*empty*

**Domestic or foreign origin**

*empty*

**Category of foreign source of funding**

*empty*

**Country of origin****Type of organization providing the funding**

*empty*

**Person responsible for general inquiries****Contact****Name of organization / entity**

The faculty of Nursing and Midwifery of Tehran  
University of Medical Sciences

**Full name of responsible person**

Omid Mohamadamini

**Position**

Master Science Student of Nursing

**Other areas of specialty/work****Street address**

The faculty of Nursing and Midwifery of Tehran  
University of Medical Science, Nosrat Street, Tohid  
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The faculty of Nursing and Midwifery of Tehran  
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**Full name of responsible person**

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**Position**

Vice-Dean for Education Assistant Professor, Ph.D. in  
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**Web page address**

## **Sharing plan**

**Deidentified Individual Participant Data Set (IPD)**

*empty*

**Study Protocol**

*empty*

**Statistical Analysis Plan**

*empty*

**Informed Consent Form**

*empty*

**Clinical Study Report**

*empty*

**Analytic Code**

*empty*

**Data Dictionary**

*empty*