

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Jul 2026

Assessment the effect of concept mapping teaching on learning and satisfaction in first year nursing students at school of nursing and midwifery, Tehran 1392-93

Protocol summary

Summary

Promoting meaningful learning is one of the main objective of education and an important factor in promoting students' creative thinking, critical thinking and problem-solving abilities in learners. Due to development of educational system and importance in the nursing profession, the necessity of using appropriate instructional methods for new theoretical and procedural skills is clear. The concept mapping is a method for facilitating thinking, teaching, learning and assessment. The present investigators aimed to evaluate and compare learning and satisfaction in two groups, using (concept-mapping that prepared by student) or not using it (traditional). we used a quasi-experimental study on two groups with post test design (Learning, satisfaction), 70 first semester nursing students were selected through convenience sampling and then randomly divided into two groups (experimental and control). The control and experimental group received education for 8 sessions during 2 month, either concept mapping or lecturing method, respectively. the teaching schedule comprised 8 sessions of practical fundamental of nursing concerning: Subcutaneous injection, dermal injection, blood pressure measurement, tracheostomy care, change dressing, gavage and lavage, oxygen therapy and canulation set change, then, used a post test at the end of fourth week of teaching for learning (by direct observational procedural skills: Dops test) and for Satisfaction (questionnaire), respectively. The data were analyzed using SPSS statistical software (Version 22).

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014011615742N3**

Registration date: **2014-02-07, 1392/11/18**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2014-02-07, 1392/11/18

Registrant information

Name

Hamidreza Sadeghigandomani

Name of organization / entity

School of Nursing and Midwifery, Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 38 2462 2647

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Recruitment status

Recruitment complete

Funding source

Deputy of Research, Tehran University of Medical Sciences

Expected recruitment start date

2014-02-19, 1392/11/30

Expected recruitment end date

2014-06-21, 1393/03/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Assessment the effect of concept mapping teaching on learning and satisfaction in first year nursing students at school of nursing and midwifery, Tehran 1392-93

Public title
Assessment the effect of concept mapping teaching on learning and satisfaction in nursing students

Purpose
Other

Inclusion/Exclusion criteria
Inclusion criteria: Students that have taken the practical fundamental of nursing course in the second semester; older than 19 years old; student consent to participate in this project from the beginning; lack of receiving previous training in the field of fundamental of nursing
Exclusion criteria: absences in a 2 class session of concept mapping; lack of timely delivery assignments of concept map

Age
From **19 years** old to **149 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **70**

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
School of Nursing and Midwifery, Tehran University of Medical Sciences

Street address
School of Nursing and Midwifery, Nosrat. Eastern Avenue, Tohid Square, Tehran

City
Tehran

Postal code
1419733171

Approval date
2013-11-26, 1392/09/05

Ethics committee reference number

92-02-61-21938-98654

Health conditions studied

1

Description of health condition studied

Learning

ICD-10 code

ICD-10 code description

2

Description of health condition studied

Satisfaction

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Learning Procedural skills of fundamental of nursing

Timepoint

4 weeks after the intervention

Method of measurement

DOPS TEST

Secondary outcomes

1

Description

Satisfaction of teaching method

Timepoint

Immediately afert the intervention

Method of measurement

Satisfaction questionnaire

Intervention groups

1

Description

Intervention: The course items chosen for teaching is practical fundamental of nursing included 8 procedures (eight session) comprises: Subcutaneous injection, Intradermal injection, blood pressure measurement, tracheostomy care, change dressing, gavage and lavage, oxygen therapy and Canulation change taken in the first second semester that offer to the students By concept mapping to enable them to provide a concept map of the content, at the end of the each session, with the necessary feedback, a maps are corrected.

Category

Other

2

Description

Control: The course items chosen for teaching is practical fundamental of nursing included 8 procedures (eight session) comprises: Subcutaneous injection, Intradermal injection, blood pressure measurement, tracheostomy care, change dressing, gavage and lavage, oxygen therapy and Canulation change taken in the first second semester that offer to the students with using lecturing and audiovisual material by reasearcher

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

School of Nursing and Midwifery, Tehran University of Medical Sciences

Full name of responsible person

Hamidreza sadeghigandomani

Street address

School of Nursing and Midwifery, East Nosrat Avenue, Tohid Square, Tehran

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Deputy of Research, Tehran University of Medical Sciences

Full name of responsible person

Dr Aliakbar Fotuhi

Street address

Sixth floor, Central university organizationtehran, Ghods street, Keshavarz bulvar, Tehran

City

Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Deputy of 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

School of Nursing and Midwifery, Tehran University of Medical Sciences

Full name of responsible person

Hamidreza Sadeghi Gandomani

Position

MSc student of nursing

Other areas of specialty/work

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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