

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

02 Jul 2026

### The Effectiveness of the Pain Management Educational Program based on KERN's Educational Model on Nurses' Performance in the Surgical Wards

#### Protocol summary

##### Study aim

determining the effectiveness of the pain management training program based on Kern's educational model on the performance of nurses in the surgical departments of selected hospitals in Babol in 2023

##### Design

After obtaining the necessary permits, the nurses of the surgical Wards of one hospital were randomly selected as the intervention group and the nurses of the surgical Wards of another hospital were considered as the control group. Then, after obtaining informed consent, nurses were included in the study based on the inclusion criteria.

##### Settings and conduct

Based on the stages of KERN's educational model, after identifying the problem and assessing the needs of the target learners, a postoperative pain management training program was prepared based on the results of the needs assessment. Then, one month after the training sessions, evaluation was done.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria 1) Nurses of surgical Wards (abdomen and orthopedics) 2) Nurses with at least 6 months of work experience in the relevant Wards 3) Nurses with at least a bachelor's degree  
Exit criteria 1. Transferring nurses from the surgery Wards to another Wards 2. Absence or going on sick leave

##### Intervention groups

The nurses of the surgical Wards of one hospital as the intervention group(nurses who participated in the educational program) and the nurses of the surgical Wards of another hospital as the control group(nurses did not receive any educational intervention)

##### Main outcome variables

postoperative pain management

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20231127060198N1**  
Registration date: **2024-01-05, 1402/10/15**  
Registration timing: **retrospective**

Last update: **2024-01-05, 1402/10/15**

Update count: **0**

##### Registration date

2024-01-05, 1402/10/15

##### Registrant information

##### Name

Mohammad Reza Goli Shirdar

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 11 3228 8660

##### Email address

m.rezagoli@sbmu.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2023-01-21, 1401/11/01

##### Expected recruitment end date

2023-07-11, 1402/04/20

##### Actual recruitment start date

2023-01-21, 1401/11/01

##### Actual recruitment end date

2023-07-11, 1402/04/20

##### Trial completion date

2023-07-11, 1402/04/20

##### Scientific title

The Effectiveness of the Pain Management Educational Program based on KERN's Educational Model on Nurses' Performance in the Surgical Wards

**Public title**

The Effectiveness of the Pain Management Educational Program based on KERN's Educational Model on Nurses' Performance in the Surgical Wards

**Purpose**

Education/Guidance

**Inclusion/Exclusion criteria****Inclusion criteria:**

Nurses of surgical wards (abdomen and orthopedics)  
Nurses with at least 6 months of work experience in the relevant wards  
Nurses with at least a bachelor's degree

**Exclusion criteria:**

Transferring nurses from the surgery department to another department  
Absence or going on sick leave

**Age**

No age limit

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

No information

**Sample size**

Target sample size: **80**

Actual sample size reached: **80**

**Randomization (investigator's opinion)**

Randomized

**Randomization description**

Randomly and by drawing lots, the nurses of the surgery ward of one hospital were considered as the intervention group and the nurses of the surgery ward of another hospital were considered as the control group.

**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 in Research Faculty of Pharmacy-Nursing and Midwifery, Shahid Beheshti University o

**Street address**

Tehran, Vali Asr St., intersection of Ayat Ah...  
Hashemi Rafsanjani Highway, in front of Shahid  
Rajaei Heart Hospital

**City**

Tehran

**Province**

Tehran

**Postal code**

1996835119

**Approval date**

2022-09-06, 1401/06/15

**Ethics committee reference number**

IR.SBMU.PHARMACY.REC.1401.120

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

postoperative pain management

**ICD-10 code**

G89.18

**ICD-10 code description**

Other acute postprocedural pain

**Primary outcomes****1****Description**

knowledge

**Timepoint**

Before the intervention and one month after the intervention

**Method of measurement**

NKASRP(Nurse Knowledge and Attitude Survey regarding Pain Questionnaire) knowledge and of pain management

**2****Description**

attitude

**Timepoint**

Before the intervention and one month after the intervention

**Method of measurement**

NKASRP(Nurse Knowledge and Attitude Survey regarding Pain Questionnaire) Attitude of pain management

**3****Description**

Performance

**Timepoint**

Before the intervention and one month after the intervention

**Method of measurement**

NCBPQ(Nurses Caring Behavior regarding Postoperative Pain Management Questionnaire)

**Secondary outcomes**

empty

**Intervention groups****1****Description**

"Intervention group" Nurses who participate in the

Education course. After the educational needs assessment, with the help of a special care specialist, a postoperative pain management training program was designed. Then, in order to maximize the participation of nurses, this training program was placed in the hospital's continuous training. Training sessions were held in the form of feedback lectures in a two-hour session and three days and different hours so that all nurses could attend the classes. After the sessions, a postoperative pain management manual was provided to the nurses. Then the researcher came to the ward and answered the nurses' questions. One month after the educational sessions, evaluation was done using the previous questionnaires (knowledge, attitude and performance questionnaire).

**Category**

Other

**2****Description**

"Control group" The nurses of this group did not participate in the training course.

**Category**

Other

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Rouhani Hospital, Yahyanejad Hospital , Shahid Beheshti Hospital Babol

**Full name of responsible person**

Mohammad Reza Goli Shirdar

**Street address**

Ghasemi Street, Babol, Mazandaran, Iran

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beheshti@mubabol.ac.ir

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Shahid Beheshti University of Medical Sciences

**Full name of responsible person**

Seyyed Ali Ziyai

**Street address**

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sbmuf@sbmu.ac.ir

**Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Shahid Beheshti 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**

Shahid Beheshti University of Medical Sciences

**Full name of responsible person**

Marzieh Pazokian

**Position**

Associate professor

**Latest degree**

Ph.D.

**Other areas of specialty/work**

Nursery

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

Shahid Beheshti University of Medical Sciences

**Full name of responsible person**

Marzieh Pazokian

**Position**

Associate professor

**Latest degree**

Ph.D.

**Other areas of specialty/work**

Nursery

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**Person responsible for updating data**

**Contact**

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Shahid Beheshti University of Medical Sciences

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**Position**

Student

**Latest degree**

Bachelor

**Other areas of specialty/work**

Nursery

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**Sharing plan**

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

Yes - There is a plan to make this available

**Study Protocol**

Yes - There is a plan to make this available

**Statistical Analysis Plan**

Yes - There is a plan to make this available

**Informed Consent Form**

No - There is not a plan to make this available

**Clinical Study Report**

Not applicable

**Analytic Code**

Not applicable

**Data Dictionary**

Not applicable

**Title and more details about the data/document**

All data is shared

**When the data will become available and for how long**

6 months after publication

**To whom data/document is available**

Researchers working in academic and scientific institutions

**Under which criteria data/document could be used**

With permission from the corresponding author

**From where data/document is obtainable**

نویسنده مسئول

**What processes are involved for a request to access data/document**

-Email your request to the responsible author

**Comments**