Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Effect of multimedia teaching strategies and lectures on knowledge, attitude and practice of nurses about pain management in children: A Controlled Random Clinical Trial

Protocol summary

Summary

The previous studies show that there were some drawbacks in children's pain management and the present research aims to outline the effect of two training methods (lecture and multimedia) on knowledge, attitude and performance of the nurses to manage children's pain. At first, by reviewing the literature, the available specialized references and the academic papers by library and field studies, producing multimedia program (producing text, film with sound and animation) for training the intervention group nurses is done through designing and programming coordinated by two IT experts by FLASH or ISpring Suite 7 software, we will be assessed the software, by 10 multimedia design theoretical principles of Mayer criteria with checklist. After the informed consent being completed, 100 of nurses affiliated to 17-Shahrivar hospital of Rasht, will be selected, who eligible to enter the study, they will answer the questions on the demographics, performance, knowledge and attitude questionnaires. Then according to knowledge scores level, the participants will randomly be divided into two groups of intervention (multimedia training) and control (lecture based training) and will be exposed to the training methods during a 6 h session as 4 h theoretical and 2 h practical through being invited by the nurses, one week and a month after the training ,both groups will be given the 1st and 2nd post-tests using the same questionnaires, and via the basic scores adjustment, the effect of training will be compared.

General information

Acronym

pain management

IRCT registration information

IRCT registration number: **IRCT201607314613N21**

Registration date: **2016-09-21, 1395/06/31**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-09-21, 1395/06/31

Registrant information

Name

Sousan Valizadeh Dehkharghani

Name of organization / entity

Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Deputy for Research, Tabriz University of Medical Sciences

Expected recruitment start date

2016-09-20, 1395/06/30

Expected recruitment end date

2016-12-20, 1395/09/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of multimedia teaching strategies and lectures on

knowledge, attitude and practice of nurses about pain management in children: A Controlled Random Clinical Trial

Public title
knowledge, attitude and practice of nurses about pain management in children
Purpose
Supportive
Inclusion/Exclusion criteria
Inclusion criteria: 1) nursing postgraduate degree ;2) working in pediatric ward;3) minimum 6 month working record in the wards ;4) willing to participate in the study;5) familiarity with computer and multimedia CS use ;6) accessing computer at home and workplace . The inclusion criteria: 1) reluctant to keep participating in the study.
Age
No age limit
Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **100**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Single blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Tabriz University of Medical Sciences
Street address
Ethical Commmite, Research Deputy of Tabriz University of Medical Sciences, Golgasht street, Tabriz, Iran
City
Tabriz
Postal code
51668-44199
Approval date
2016-08-29, 1395/06/08
Ethics committee reference number
IR.TBZMED.REC.1395.611

Health conditions studied

1

Description of health condition studied
children pain management
ICD-10 code
R52.9 Pain
ICD-10 code description
Generalized pain NOS

Primary outcomes

1

Description
knowledge
Timepoint
Before the intervention, one week and one month after the intervention
Method of measurement
Questionnaire

2

Description
Attitude
Timepoint
Before the intervention, one week and one month after the intervention
Method of measurement
Questionnaire

3

Description
Practice
Timepoint
Before the intervention, one week and one month after the intervention
Method of measurement
Questionnaire

Secondary outcomes

1

Description
Nurses Satisfaction of the trainning
Timepoint
one Week after the intervention
Method of measurement
Questionnaire

Intervention groups

1

Description
Intervention 1: for the 1nd group, training is carried out by designed multimedia (text, film with sound and animation) with the training content similar to the 2st

group.

Category

Behavior

2

Description

Intervention 2, Control: a group of the nurses participating in pre-test and randomly put in two groups; for the 1st group, training is done in the form of lecture. Training as a 6 h workshop using PowerPoint and whiteboard by the lecturer.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

17 Ŝharivar Hospital

Full name of responsible person

Samereh Poorkarimi

Street address

17 Ŝharivar Hospital, Siyadaty Av., Namjoo St., Rasht

City

Rasht

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for Research of Tabriz University of Medical Sciences

Full name of responsible person

Dr. Mohammad Reza Rashidi

Street address

Deputy of Research and Technology, Tabriz University of Medical Sciences ,Golgasht street

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Tariz

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 of Tabriz 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

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Full name of responsible person

Samereh Poorkarimi

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Position

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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