

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Jun 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

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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 Commitee, 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 training

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 Sharivar Hospital

Full name of responsible person

Samereh Poorkarimi

Street address

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

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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 ,Golgashst street

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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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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