

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Comparison of the quality of nursing care of patients candidate for plaster casting, before and after an educational package provided to nurses

Protocol summary

Study aim

The effect of an educational package provided to nurses on the quality of nursing care of patients candidate for plaster casting

Design

Clinical trial, before-after comparison, single blinded, with non-parallel groups of 188 patients.

Settings and conduct

The study will be conducted in Shahid Behesti Hospital of Kashan. Before the intervention, the first researcher will daily refer to the emergency and orthopedics units to found eligible samples. Then, using a checklist, the quality of care of patients with plaster casting will be assessed. After completing the first phase, the second researcher will provide an educational package in the form of lectures, instructional CDs, booklet and pamphlets to nurses of each unit. Then, using the same checklist, the second researcher will again assess the quality of nursing care before, during and after plaster casting. The observation will be continues till the sample size is completed. Nurses will be unaware that they are under observation. For this reason, before the data collection starts, the first researcher will be present in the research setting (in the form of student work), to normalize her presence.

Participants/Inclusion and exclusion criteria

A patient with a fracture in upper or lower extremities; A patient who is admitted to Shahid Beheshti Hospital of Kashan; A patient who is candidate for plaster casting or being plastered; Nurses with a Bachelor of Science degree and at least six months of working experience; A nurse working in the trauma emergency and orthopedic units. Lack of willingness on the part of either nurses or patients to participate in the study will be considered as no entry criteria.

Intervention groups

Intervention group: An educational package about the

quality of nursing care before, during and after plaster casting will be provided to emergency and orthopedic nurses.

Main outcome variables

Quality of care

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180523039793N1**

Registration date: **2018-07-11, 1397/04/20**

Registration timing: **prospective**

Last update: **2018-07-11, 1397/04/20**

Update count: **0**

Registration date

2018-07-11, 1397/04/20

Registrant information

Name

Razieh Mokhtari

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

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Email address

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-07-21, 1397/04/30

Expected recruitment end date

2018-10-22, 1397/07/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the quality of nursing care of patients candidate for plaster casting, before and after an educational package provided to nurses

Public title

The effect of an educational package provided to nurses on the quality of nursing cares

Purpose

Education/Guidance

Inclusion/Exclusion criteria**Inclusion criteria:**

The patient with a fracture in the upper or lower extremities. The patient who is admitted to the Shahid Beheshti Hospital of Kashan University of Medical Sciences. Patient should be candidate for plaster placement for fracture management or be plastered (at least one day in hospital). Nurses with a Bachelor of Science degree who have at least six months of working experience. A nurse should work in the trauma emergency, orthopedics and surgery units in Shahid Beheshti Hospital of Kashan.

Exclusion criteria:

Lack of willingness on the part of either nurses or patients to participate in the study.

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

- Care provider

Sample size

Target sample size: 94

Randomization (investigator's opinion)

N/A

Randomization description**Blinding (investigator's opinion)**

Single blinded

Blinding description

During the data collection, nurses would be unaware of being observed. For this reason, before data collection starts, the first researcher will be present in the research setting (in the form of student work), to normalize her presence. Then, the data collection will begin.

Placebo

Not used

Assignment

Single

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics Committee of Kashan University of Medical Sciences

Street address

The office of supervision on research projects, Research deputy, Kashan University of Medical Sciences, Ravand Road, 5th Km, kashan, Iran

City

Kashan

Province

Isfahan

Postal code

8715988141

Approval date

2018-05-07, 1397/02/17

Ethics committee reference number

IR.KAUMS.NUHEPM.REC.1397.008

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

Limbs fractures

ICD-10 code

M95-M99

ICD-10 code description

Other disorders of the musculoskeletal system and connective tissue

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

Quality of care

Timepoint

During a one-month period before presenting the educational package, and during a one-month period after the presenting the educational package

Method of measurement

A checklist designed by the researcher.

Secondary outcomes

empty

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

An educational package about the care of patients with

plaster casting will be provided to nurses in the form of lectures, instructional CDs, booklet and pamphlets .

Category

Behavior

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Beheshti Hospital

Full name of responsible person

Razieh Mokhtari

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Shahid Beheshti Hospital, Ravand Road

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Kashan University of Medical Sciences

Full name of responsible person

Gholamali Hamidi

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Research deputy, Kashan University of Medical Sciences, 5th Km of Ghotbe Ravandi road

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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

Kashan 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

Kashan University of Medical Sciences

Full name of responsible person

Razieh Mokhtari

Position

Student

Latest degree

Bachelor

Other areas of specialty/work

Nursery

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Person responsible for scientific inquiries

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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

There is no more information.

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Not applicable