Effect of an ergonomic-educational program on musculoskeletal disorders in operating room nurses

Protocol summary

Summary
Objectives: To determine effect of an ergonomic-educational program on musculoskeletal disorders in operating room nurses Design, Setting and Conduction: Sampling of operating room nurses at two hospitals in Semnan. Random, by lottery, hospitals will be assigned to experimental and control groups (each group 33). The initial assessment will be carried out by the REBA check list and Nordic questionnaire. According to the results of the questionnaires a training package tailored to the training needs of staff and training is based on ergonomic risk factors and methods of correction and control will be prepared. The experimental group will receive a training session. Then, in a 3-month period of monitoring are being re-filled questionnaires every two weeks while on training to people face to face and meet training needs to be emphasized. The control group did not receive any training. At the end of 3 months for both groups completed questionnaires and compared the two groups examined the impact of education. Major Inclusion criteria: graduate of one of the operating room, anesthesia or nursing; at least one year of experience in the operating room, without any surgery or disease has been detected on the musculoskeletal system Major Exclusion criteria: absence of more than 2 weeks of work, any damage to the musculoskeletal system Intervention: ergonomics training program The main outcome variables: prevalence of musculoskeletal disorders, the risk of musculoskeletal disorders

General information

Acronym
IRCT registration information
IRCT registration number: IRCT2015081823677N1
Registration date: 2015-10-07, 1394/07/15
Registration timing: registered_while_recruiting

Last update:
Update count: 0
Registration date
2015-10-07, 1394/07/15
Registrant information
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Name of organization / entity
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Recruitment status
Recruitment complete
Funding source
Vice chancellor for research, Tehran University of Medical Sciences

Expected recruitment start date
2015-09-21, 1394/06/30
Expected recruitment end date
2016-01-20, 1394/10/30
Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Effect of an ergonomic-educational program on musculoskeletal disorders in operating room nurses

Public title
Effect of an ergonomic-educational program on musculoskeletal disorders in operating room nurses

Purpose
Inclusion/Exclusion criteria

Inclusion criteria: associate degree or bachelor's graduates in the operating room or anesthesia nursing; have at least one year of experience in the operating room; Working in the operating room for at least 6 months after baseline; Lack of any history of surgery on the musculoskeletal system; lack of any diagnosed musculoskeletal disease; Willingness to participate in the study; Exclusion criteria: unwillingness to continue participating in each stage of intervention; Absence from work for more than 2 weeks during the study; The occurrence of any damage to the musculoskeletal system during the study.

Age
No age limit

Gender
Both

Phase
2-3

Groups that have been masked
No information

Sample size
Target sample size: 66

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features
Randomization will performed by lottery.

Secondary Ids
empty

Ethics committees

1
Ethics committee
Name of ethics committee
Tehran University of Medical Sciences Ethics committee

Street address
Tehran

City
Tehran

Postal code

Approval date
2015-03-04, 1393/12/13

Ethics committee reference number
9111196041-1

Health conditions studied

1
Description of health condition studied
musculoskeletal disorders (MSDs)

ICD-10 code
M99.9

ICD-10 code description
Biomechanical lesion, unspecified

Primary outcomes

1
Description
musculoskeletal disorders

Timepoint
every two weeks

Method of measurement
nordic questionnaire and REBA questionnaire

Secondary outcomes

1
Description
job satisfaction

Timepoint
before and after of intervention

Method of measurement
minnesota job satisfaction questionnaire

Intervention groups

1
Description
The intervention group will receive a training session. For a higher quality of education and cooperation of the participants, the meeting on 3 small groups, each group of 11 people in 3 days (every day for a group) will be held. The pamphlet placed at their disposal. The subjects are monitored for a period of 3 months. In the three months since the public ergonomic changes need to be at least two weeks to evaluate, fortnightly assessment and given the need to educate people at the same time, face-to-face emphasis on training, as well as The study pamphlet will remind them and they will be asked some questions.

Category
Prevention

2
Description
The control group did not receive any training and just at the beginning and end of the project are evaluated by questionnaire and the check list.

Category
Prevention
Recruitment centers

1
Recruitment center
Name of recruitment center
Semnan Kosar hospital
Full name of responsible person
Dr. Daryoosh Pahlevan
Street address
City
Semnan

2
Recruitment center
Name of recruitment center
Semnan Amiralmomenin hospital
Full name of responsible person
Roqeyeh Vafaei Nejad
Street address
City
Semnan

Sponsors / Funding sources

1
Sponsor
Name of organization / entity
Vice chancellor for research, Tehran University of Medical Sciences
Full name of responsible person
Dr. Ziba Tghizadeh
Street address
Nosrat Sharqi st, Tohid sq, Tehran
City
Tehran
Grant name
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Vice chancellor for 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
empty
Type of organization providing the funding
empty

Person responsible for general inquiries

Contact
Name of organization / entity
Tehran University of Medical Sciences
Full name of responsible person
Mrs. Shadan Pedram Razi
Position
coach
Other areas of specialty/work
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Person responsible for scientific inquiries

Contact
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Semnan University of Medical Sciences
Full name of responsible person
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Person responsible for updating data

Contact
Name of organization / entity
Semnan University of Medical Sciences
Full name of responsible person
Tahereh Abdollahi
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Other areas of specialty/work
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City
Semnan
Postal code
Phone
00
Fax
Email
Web page address
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