

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

The effect of localized magnetic field with a very low frequency of sleep induction during the rest of the nurses' Work night

Protocol summary

Study aim

Determination of the Effect of Localized Magnetic Fields with Low Frequency of Induced Sleepiness in Nurses

Design

Sixteen subjects are illuminated for four weeks at eight doses. The second group is not exposed to radiation. Only the coil before nursing hours is used during eight shifts of the night in a month. There is no intervention for two weeks after that.

Settings and conduct

In this study, 32 nurses from the critical care nurses are voluntarily selected of Ali-ibn Abi Talib (AS) Hospital, Rafsanjan University of Medical Sciences.

Participants/Inclusion and exclusion criteria

At least 4 nights Work a month. Satisfaction with the presence of research. No children under one year.

Intervention groups

Sixteen subjects were given a four-week period during eight sessions of radiation with an intensity of 200 microseconds and a frequency of less than 20 Hz before the nurses rest at night in a month's shift in a month.

Main outcome variables

sleep quality

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20171002036498N3**
Registration date: **2019-10-03, 1398/07/11**
Registration timing: **retrospective**

Last update: **2019-10-03, 1398/07/11**

Update count: **0**

Registration date

2019-10-03, 1398/07/11

Registrant information

Name

Ali Akbari

Name of organization / entity

Medical Sciences of Rafsanjan University

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-04-21, 1398/02/01

Expected recruitment end date

2019-08-23, 1398/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of localized magnetic field with a very low frequency of sleep induction during the rest of the nurses' Work night

Public title

The effect of localized magnetic field with a very low frequency of sleep induction during the rest of the nurses' Work night

Purpose

Other

Inclusion/Exclusion criteria

Inclusion criteria:

At least 4 nights Work a month Satisfaction with the presence of research

Exclusion criteria:**Age**

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

- Participant

Sample size

Target sample size: 32

Randomization (investigator's opinion)

Randomized

Randomization description

samples are selected based on the availability. Before intervention, the device is turned off and without any waves is on head. After intervention, the device is placed on the samples head with waves propagation.

Blinding (investigator's opinion)

Single blinded

Blinding description

The samples are unaware of whether or not they receive radiation

Placebo

Not used

Assignment

Crossover

Other design features**Secondary Ids**

empty

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

Qom University of Medical Sciences

Street address

Faculty of Nursing and Midwifery

City

Rafsanjan

Province

Kerman

Postal code

7717933777

Approval date

2017-02-11, 1395/11/23

Ethics committee reference number

IR.MUQ.REC.1395.43

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

Relation between Magnetic fields and inductance on sleep at rest in night shift nurses

ICD-10 code**ICD-10 code description****Primary outcomes****1****Description**

Sleeping during the day for a person to feel rejuvenated be necessary. Rest as one of the basic needs of mankind, in the Maslow needs series, is in line with physiological needs and provides the human body with an opportunity to regenerate and escape from tensions. Nurses are the largest group of health professionals in the health care system. there are regular outdoor activities, including people who are at risk of insomnia Because of the nature of his work in shifts: morning, afternoon and evening.

Timepoint

after the intervention

Method of measurement

Epworth Sleepiness

Secondary outcomes**1****Description**

It can be described as one of the ways to improve sleep after nursing hours

Timepoint

after the intervention

Method of measurement

Epworth Sleepiness(ESS)

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

In the post intervention phase for four weeks and during eight nights, radiation with a frequency of 200 micro Tesla and less than 20 Hz is given before nurses rest after the night shift. In the pre-intervention phase for four weeks, during the eight nights, the device was placed on the head of samples without any wave propagation.

Category

N/A

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

Ali-Ebn abitaleb hospital

Full name of responsible person

Ali Akbari

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Taleghani blvd, Ali-Ebn abitaleb hospital

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
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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
Rafsanjan 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
Rafsanjan University of Medical Sciences
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Position
Instructor
Latest degree
Master

Other areas of specialty/work

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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

After data analysis will be decided

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

No - There is not a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available